

APPENDIX B4

EXHIBIT C-6

RTN 3-0021892, Malone Park Bldg No 21

Site Information		
Site Number:	3-0021892	Category:
Site Name:	MALONE PARK BLDG NO 21	Release Type:
Address:	200 TRAPELO RD	Current date:
Town:	WALTHAM	Phase:
Zipcode:	02454-0000	RAO class:
Official notification date:	6/27/2002	Location type:
Initial status date:	6/27/2003	Source:

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	7/3/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	7/3/2003
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	8/26/2002
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	6/27/2002
RAO class:	
Activity & Use Limitation:	

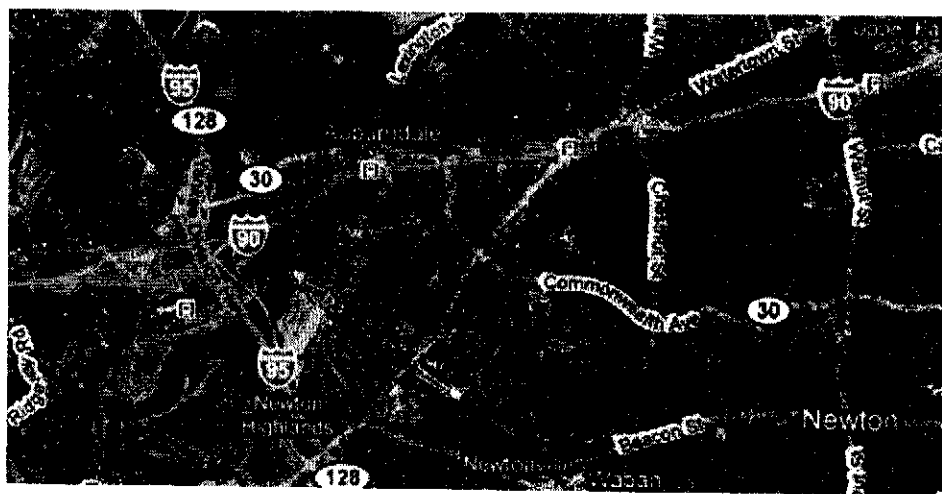
Chemicals	
Chemical	Amount
FUEL OIL #2	100
FUEL OIL #2	200

LSPs	
LSP#	Name
8493	KLINGLER, BRIAN F

RAO Detail		
Class	Method	GW Category
A2	1	2
A2	1	2



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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104 J.K.

RESPONSE ACTION OUTCOME (RAO) STATEMENT
 Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number -
 3 - 21892

A. SITE LOCATION:

1. Site Name/Location Aid: Malone Park - Building No. 21
 2. Street Address: 200 Trapelo Road
 3. City/Town: Waltham 4. ZIP Code: 02452-6302

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
 a. Tier 1A b. Tier 1B c. Tier 1C d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of RAO Statement (if previously submitted): _____ (MM/DD/YYYY)

2. Submit a **Response Action Outcome (RAO) Statement**

a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) that are covered by this RAO Statement. - -

3. Submit a **Revised Response Action Outcome Statement**

a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) that are covered by this RAO Statement. - -

4. Submit a **Response Action Outcome Partial (RAO-P) Statement**

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only a RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statements.

5. Submit an optional **Phase I Completion Statement** supporting an RAO Statement

JUL 03 2003

6. Submit a **Periodic Review Opinion** evaluating the status of a Temporary Solution for a Class C RAO Statement (Section E is optional)

DEP

7. Submit a **Retraction** of a previously submitted Response Action Outcome Statement (Sections D & E are not required)

NORTHEAST REGIONAL OFFICE

(All sections of this transmittal form must be filled out unless otherwise noted above)





RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number -

3 - 21892

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

- | | |
|--|---|
| <input type="checkbox"/> 1. Assessment and/or Monitoring Only | <input type="checkbox"/> 2. Temporary Covers or Caps |
| <input type="checkbox"/> 3. Deployment of Absorbent or Containment Materials | <input type="checkbox"/> 4. Temporary Water Supplies |
| <input type="checkbox"/> 5. Structure Venting System | <input type="checkbox"/> 6. Temporary Evacuation or Relocation of Residents |
| <input type="checkbox"/> 7. Product or NAPL Recovery | <input type="checkbox"/> 8. Fencing and Sign Posting |
| <input type="checkbox"/> 9. Groundwater Treatment Systems | <input type="checkbox"/> 10. Soil Vapor Extraction |
| <input type="checkbox"/> 11. Bioremediation | <input type="checkbox"/> 12. Air Sparging |
| <input checked="" type="checkbox"/> 13. Removal of Contaminated Soils | |

- a. Re-use, Recycling or Treatment
- i. On Site Estimated volume in cubic yards _____
- ii. Off Site Estimated volume in cubic yards _____

ia. Facility Name: ESMI, Incorporated Town: Louden State: NH

iib. Facility Name: _____ Town: _____ State: _____

iii. Describe: Thermal Processing

- b. Landfill
- i. Cover Estimated volume in cubic yards _____
- Facility Name: _____ Town: _____ State: _____
- ii. Disposal Estimated volume in cubic yards _____
- Facility Name: _____ Town: _____ State: _____

14. Removal of Drums, Tanks or Containers:
- a. Describe Quantity and Amount: _____
- b. Facility Name: _____ Town: _____ State: _____
- c. Facility Name: _____ Town: _____ State: _____





RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number -

3 - 21892

C. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply, for volumes list cumulative amounts)

15. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

16. Other Response Actions:

Describe: _____

17. Use of Innovative Technologies:

Describe: _____

D. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release.
Select **ONLY** one Class.

1. Class A-1 RAO: Specify one of the following:

a. Contamination has been reduced to background levels. b. A Threat of Release has been eliminated.

2. Class A-2 RAO: You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

3. Class A-3 RAO: You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

4. Class A-4 RAO: You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an engineered barrier is infeasible. If the permanent solution relies upon an engineered barrier, you must also provide a Phase III report justifying the selection of the engineered barrier.





RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number -

3 - **21892**

D. RESPONSE ACTION OUTCOME CLASS (cont.):

- 5. Class B-1 RAO: Specify one of the following:
 - a. Contamination is consistent with background levels
 - b. Contamination is **NOT** consistent with background levels.
- 6. Class B-2 RAO: You **MUST** provide an implemented AUL.
- 7. Class B-3 RAO: You **MUST** provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.
- 8. Class C RAO: Specify one:
 - a. Monitoring
 - b. Passive Operation and Maintenance
 - c. Active Operation and Maintenance (defined at 310 CMR 40.0006)

E. RESPONSE ACTION OUTCOME INFORMATION:

1. Specify the Risk Characterization Method(s) used to achieve the RAO described above:
 - a. Method 1
 - b. Method 2
 - c. Method 3
 - d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated
2. Specify all Soil and Groundwater Categories used in the Risk Characterization. More than one Soil Category and more than one Groundwater Category may apply at a Site. Be sure to check off all **APPLICABLE** categories.
 - a. Soil Category(ies) Applicable:

<input type="checkbox"/> i. S-1/GW-1	<input type="checkbox"/> iv. S-2/GW-1	<input type="checkbox"/> vii. S-3/GW-1
<input checked="" type="checkbox"/> ii. S-1/GW-2	<input checked="" type="checkbox"/> v. S-2/GW-2	<input type="checkbox"/> viii. S-3/GW-2
<input checked="" type="checkbox"/> iii. S-1/GW-3	<input checked="" type="checkbox"/> vi. S-2/GW-3	<input type="checkbox"/> ix. S-3/GW-3
 - b. Groundwater Category(ies) Impacted:

<input type="checkbox"/> i. GW-1	<input checked="" type="checkbox"/> ii. GW-2	<input checked="" type="checkbox"/> iii. GW-3
----------------------------------	--	---
3. Specify remediation conducted.
 - a. Check here if soil remediation was conducted.
 - b. Check here if groundwater remediation was conducted.
4. Estimate the number of acres this RAO Statement applies to: 0.4





Massachusetts Department of Environmental Protection
 Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number -

3 - 21892

Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

F. LSP SIGNATURE AND STAMP :


I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B indicates that either an **RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion** is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

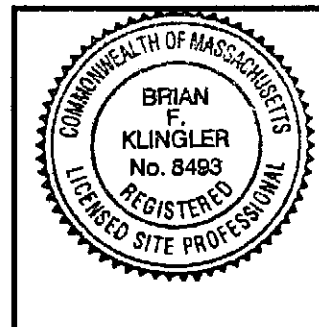
I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. First Name: Brian 2. Last Name: Klingler

3. Telephone: (508) 697-3191 4. Ext.: _____ 5. FAX: (508) 697-5996

6. Signature:  7. Date: 06/27/2003

8. LSP #: 8493 9. LSP Stamp:



G. PERSON MAKING SUBMITTAL:

1. Check all that apply: a. change in contact name. b. change of address c. change in the person undertaking response actions

2. Name of Organization: Massachusetts Department of Mental Retardation

3. Contact First Name: David 4. Last Name: Chan

5. Street: 500 Harrison Avenue 6. Title: Project Engineer

7. City/Town: Boston 8. State: MA 9. ZIP Code: 02118-0243

10. Telephone: (617) 624-7881 11. Ext.: _____ 12. FAX: _____





RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

3 - 21892

H. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

- 1. RP or PRP
 - a. Owner
 - b. Operator
 - c. Generator
 - d. Transporter

e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Making Submittal Specify Relationship: _____

I. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.

3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.

4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.

5. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)

a. Notice of Activity and Use Limitation b. Number of Notices submitted: _____

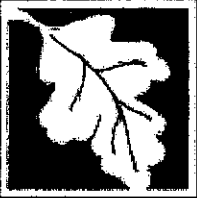
c. Grant of Environmental Restriction d. Number of Grants submitted: _____

6. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

7. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.

8. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

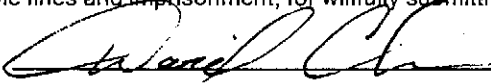
Pursuant to 310 CMR 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number -

3 - 21892

J. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, David Chan, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By:  3. Title: Project Engineer
Signature

4. For: Massachusetts Department of Mental Retardation 06/27/2003
(Name of person or entity recorded in Section G) (mm/dd/yyyy)

5. Check here if the address of the person providing certification is different from address recorded in Section G.

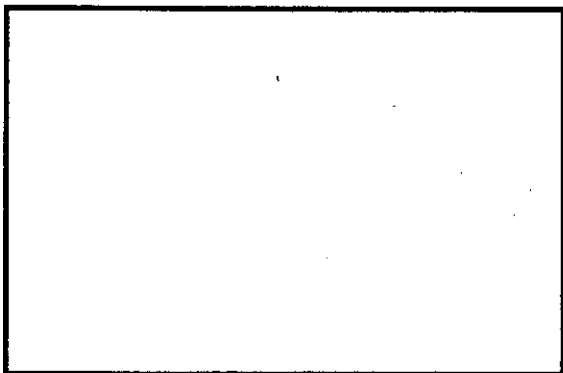
6. Street: _____

7. City/Town: _____ 8. State: _____ 9. ZIP Code: _____

10. Telephone: _____ 11. Ext.: _____ 12. FAX: _____

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)





CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

June 27, 2003
Project No. 4701

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
1 Winter Street
Boston, Massachusetts 02108

RE: **Immediate Response Action Completion & Response Action Outcome Statement**
Fernald Center Malone Park Building 21
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21892

To Whom It May Concern:

Coneco Engineers and Scientists (Coneco) has prepared the following Immediate Response Action (IRA) Completion and Response Action Outcome (RAO) Statement to address a release of petroleum at Malone Park Building No. 21 of the Massachusetts Department of Mental Retardation Fernald Center located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter the, "Site." The enclosed report was prepared in accordance with 310 CMR 40.1000 of the Massachusetts Contingency Plan and is based on Coneco's Revised IRA Plan, previously submitted to the Department of Environmental Protection (DEP) on September 25, 2002. In summary, a condition of "No Significant Risk" exists at the Site. This submittal contains the following:

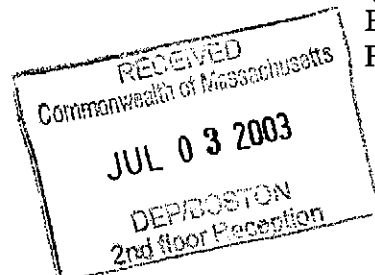
- Immediate Response Action Transmittal Form (BWSC-105)
- Response Action Outcome Transmittal Form (BWSC - 104)
- Copies of Municipal Notifications

Coneco's oversight and assessment findings are detailed in the attached report. If there are any questions, please contact the undersigned.

Sincerely,
Coneco Engineers and Scientists


Jedd S. Steinglass
Project Manager

JSS:BFK:jd
JSS/4701.ira.rao.doc



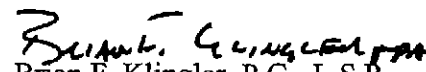

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

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APPENDICES

- Appendix 1 Original Laboratory Data, Laboratory QA/QC, Methods, and Chain-Of-Custody Form
- Appendix 2 Bill of Lading
- Appendix 3 Standard Operating Procedures
- Appendix 4 Immediate Response Action Transmittal Form (BWSC-105)
Response Action Outcome Transmittal Form (BWSC - 104)
Copies of Municipal Notifications

1.0 INTRODUCTION

The release occurred at Malone Park Building No. 21 of the Massachusetts Department of Mental Retardation Fernald Center, located at 200 Trapelo Road in Waltham, Massachusetts. The Disposal Site, as defined by 310 CMR 40.0006, is defined as the area located in the immediate vicinity of the former underground storage tank (UST) to a depth of approximately seven feet below grade. As such, the approximately 225 square-foot area located adjacent to the southern exterior wall of Malone Park Building No. 21 is considered to be within the limits of the Disposal Site. A Site Locus Map and Site Plan are provided for reference as Figures 1 and 2, respectively.

1.1 Site Parameters

Person Assuming

Responsibility: Mr. David Chan, Project Engineer
Commonwealth of Massachusetts
Executive Office of Health and Human Services
500 Harrison Avenue
Boston, Massachusetts 02118
Phone: (617) 624-7881

Disposal Site

Limits:

The release impacted soil and groundwater in the immediate vicinity of the former 500-gallon No. 2 fuel oil UST as indicated by elevated photoionization detector (PID) headspace concentrations and a petroleum sheen on groundwater within the UST excavation. As such, the Disposal Site limits include soil and groundwater located in the immediate vicinity of the former UST to a depth of approximately seven feet below grade. Based on laboratory analytical results of soil samples collected subsequent to IRA exaction activities, impacted materials associated with this release are limited to the boundaries of the Disposal Site.

Coordinates:

Latitude 42° 23' 28" N Longitude 71° 12' 59" W
UTM 4,695,380 Meters N 317,560 Meters E (Zone 19)

Adjacent

Properties:

The Disposal Site is located within the Massachusetts Department of Mental Retardation Fernald Center, a residential and school facility. The Site is situated within a primarily residential and undeveloped area of Waltham, Massachusetts. Private residences, commercial properties, and undeveloped land surround the Fernald Center.

2.0 BACKGROUND

2.1 Release History

On June 26, 2002, a release of an unknown volume of fuel oil was discovered during closure activities for a 500-gallon No. 2 fuel oil UST formerly located at the Site. Soil samples collected from the vicinity of the UST exhibited photoionization detector (PID) headspace concentrations in excess of 100 parts per million by volume (ppmv). As a result, the DEP was verbally notified of the release on June 27, 2002, within the 72-hour notification requirement, pursuant to 310 CMR 40.0310. The release was assigned Release Tracking Number (RTN) 3-21892, and verbal approval to conduct Immediate Response Actions including soil removal of up to 50 cubic yards was granted at the time of verbal notification. No holes were noted within the UST, and as such, the release was likely the result of overfilling.

3.0 IMMEDIATE RESPONSE ACTION

The focus of the IRA is as follows: 1) the removal of petroleum-impacted materials and 2) further delineation of impacted materials.

Point source soil removal activities and post-excavation groundwater monitoring was completed to reduce EPH concentrations throughout the Disposal Site to concentrations such that a Class A Response Action Outcome could be achieved.

3.1 IRA Excavation

On June 26 and 27, 2002, soil removal activities were conducted at the Site to remove petroleum-impacted soil and further delineate subsurface conditions. The extent to which soil was excavated was determined by the periodic screening of samples collected from the base and sidewalls using PID and standard headspace techniques in accordance with DEP Policy WSC 94-400. Overburden stratigraphy within the UST excavation consisted of fill and gravelly, silty sand. Groundwater was encountered within excavation at approximately six feet below grade. A light sheen was noted on the surface of groundwater within the excavation. Final excavation dimensions were approximately 15 feet by 15 feet by seven feet (length, width, depth). Impacted soil was temporarily stockpiled on-Site and covered and lined with 6-mil polyethylene sheeting in accordance with the specifications of 310 CMR 40.0030 and 310 CMR 30.0040.

Five composite soil samples were collected from the excavation base and sidewalls, respectively, and submitted to Spectrum Analytical, Incorporated (Spectrum), an independent Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for confirmatory analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. No EPH concentrations were detected in any of the submitted soil samples. Original laboratory

data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 1. A summary of sample location and depth is presented below:

- North Sidewall (NSW): 4-6'
- South Sidewall (SSW): 4-6'
- East Sidewall (ESW): 4-6'
- West Sidewall (WSW): 4-6'
- Excavation Base (BASE): 7'

3.2 Remediation Waste

Between July 15 and 17, 2002, approximately 45 cubic yards of impacted soil generated as part of the IRA associated with this release were removed from the Site to the ESMI, Inc. facility in Loudon, New Hampshire for proper disposal via thermal processing. The stockpiled soil was removed under a Bill of Lading associated with both the subject release and an additional separate release, identified by Release Tracking Number 3-21893, discovered at another location within Malone Park during a similar UST closure. A combined total of 121.40 tons of impacted soil were removed from the Disposal Site and the nearby release under the Bill of Lading, a copy of which is included for reference as Appendix 2.

3.3 Delineation Activities

Geoprobe® test borings were advanced at the Site on January 20, 2003 by New England Geotech of Jamestown, Rhode Island. Test boring activities were overseen by Jedd S. Steinglass of Coneco. Test boring locations were selected to provide environmental data subsequent to IRA excavation activities and to delineate any potential downgradient migration of the release. Test borings were performed at three locations, designated GP-01 through GP-03, and were advanced to depths ranging from six to 14 feet below grade utilizing a truck-mounted Geoprobe® sampling system. Soil samples were collected in two foot intervals continuously in all test borings. The standard operating procedures for overburden test borings are included in Appendix 3. The locations of test borings, former UST, and other relevant Site features can be referenced in Figure 2.

Observations made during the performance of Geoprobe® test borings indicated the presence of fill consisting of a gravelly silty sand to an average depth of four feet underlain by glacial/fluvial deposits of gravelly silty sand, to a depth of approximately 14 feet below grade, the maximum depth of investigation. Weathered bedrock was encountered in test borings GP-01 and GP-02 at between six to seven feet below grade. Groundwater was encountered at approximately six feet below grade.

Representative soil samples collected from the test borings were placed in clean, tightly sealed glass jars with aluminum foil cover liners for in-field screening using RAE Systems MiniRAE 2000 PID, calibrated to an isobutylene standard. Headspace procedures were performed in accordance with DEP Policy WSC 94-400. A discussion of this procedure and standard operating protocol is included in Appendix 3. Headspace concentrations of volatile compounds in excess of the instrument detection limits of 0.2 parts per million (ppm) were not identified in soil samples collected as part of this Geoprobe® subsurface investigation.

Select duplicate soil samples collected during soil boring activities were placed in the appropriate containers and sent to Spectrum Analytical (Spectrum), a Massachusetts-certified laboratory located in Agwam, Massachusetts for analysis of EPH by the DEP Method. Sampling depth was selected to correspond to the phreatic surface of the vadose zone, or the maximum depth of soil boring. Samples were labeled GP-01 (4-6') and GP-03 (4-6') to distinguish soil boring identification and sample depth in feet. Samples were not collected from GP-01, which was situated within the former UST grave. No EPH concentrations were detected in any of the submitted soil samples. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 1.

3.4 Groundwater Monitoring Well Installation

Groundwater monitoring wells CMW-1 through CMW-3 were installed in test borings GP-01 through GP-03, respectively. The monitoring wells were constructed of 1-inch ID, schedule 40, No. 10 slotted PVC well screen from the base of the well to approximately two feet below grade, with solid PVC riser pipe from the top of the slotted screen to grade. Monitoring wells were installed in accordance with the Massachusetts DEP Standard Reference for Monitoring Wells (BWSC-Policy 310-91 and SDDW Supplement). The standard operating procedures for the installation of monitoring wells are included in Appendix 3. The locations of the monitoring wells and other relevant Site features can be referenced in Figure 2.

3.5 Site Survey/Gauging of Groundwater Levels

A Site survey was conducted by Coneco personnel on January 31, 2003. The survey was performed to determine the elevation of on-Site monitoring wells. A reference elevation for each monitoring well was established at a specific point on the top of the PVC well casing. An arbitrary elevation of 100.00 feet, at the base of the southwest corner of Building No. 21, was chosen as a benchmark.

Depth to groundwater measurements were made at each groundwater monitoring well to the nearest 0.01 foot by Coneco personnel. The depth to groundwater was measured using a Keck Water Level Indicator from the reference point located at the top of the PVC well casing. No separate-phase product was detected during the groundwater gauging. The tabulated data for the surveyed wells is presented in Table 4.

Table 1 - Tabulation of Survey Data

Monitoring Well	PVC Elevation	Depth to Water Table	Screen Interval	Groundwater Elevation
CMW-1	99.47	3.22	1-6	96.25
CMW-2	99.71	4.31	2-7	95.40
CMW-3	99.68	3.49	2-12	96.19

Note: All measurements given in feet.

Groundwater surface elevation contours were computer-generated using Surfer version 7.0 Golden Software®, Inc. The groundwater contour plan, as determined by groundwater gauging, is provided for reference as Figure 3. The groundwater contour plan, using data from the three monitoring wells, indicates a flow in a general south southwest direction.

3.6 Groundwater Parameters

The temperature, specific conductivity, and pH of groundwater in each well were measured concurrently with groundwater sampling completed on January 31, 2003 utilizing a YSI Model 3000 TLC meter and Hanna Model HI98127 pH meter. A summary of these groundwater-screening results is as follows:

Table 2 - Tabulation of Monitoring Well Data

Monitoring Well	Temperature (°C)	Conductivity (millimhos/cm)	pH
CMW-1	15.2	0.205	7.30
CMW-2	18.4	0.429	6.78
CMW-3	14.5	0.360	6.71

Note: Conductivity given in millimhos at 25 °C

Measure values for temperature, conductivity, and pH in the above monitoring wells were consistent with values for normal ranges of these parameters in New England groundwater. (Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, U.S. Geological Survey, Water-Supply Paper 2254, 1985).

3.7 Groundwater Sampling

Coneco personnel collected groundwater samples from monitoring wells CMW-1 through CMW-3 on January 31 and June 9, 2003. Samples were collected using the applicable Standard Operating Procedure provided for reference in Appendix 3.

Select groundwater samples collected from each monitoring well were placed in HCl-preserved 1-L glass jars fitted with Teflon caps were sent to Spectrum for analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 1.

No detectable concentrations of EPH were identified in the samples collected from the Site on June 9, 2003. A summary of the analytical data for samples collected on January 31, 2003 is presented in Table 3.

Table 3 Groundwater Analytical Results: January 31, 2003

Analyte	CMW-1	CMW-2	CMW-3	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatics	590	ND	ND	1,000	20,000
C19-C36 Aliphatics	1,000	ND	ND	N/A	20,000
C11-C22 Aromatics	1,200	ND	ND	50,000	30,000

Notes: 1) ND indicates not detected above laboratory detection limits
2) N/A indicates no standard promulgated
3) Results reported in µg/L for detected analytes only

4.0 METHOD 1 RISK CHARACTERIZATION

Under the MCP (310 CMR 40.0000), once a property has been designated as a Disposal Site, a risk assessment is necessary to demonstrate that a condition of "No Significant Risk" to health, safety, public welfare, and the environment exists at the Disposal Site. Otherwise, further remedial actions are required to achieve a condition of "No Significant Risk."

To determine whether further action is required at the Site, it is first necessary to determine whether a condition of "No Significant Risk" exist using MCP Risk Characterization procedures. A Method 1 Risk Characterization uses a published list of contaminants, and provides risk characterization standards for these contaminants of concern. The following sections present the classifications of soil and groundwater for an MCP Method 1 Risk Characterization, and the applicable threshold concentrations for the contaminants present at the Site.

The basis for the Method 1 Risk Characterization is the Conceptual Site Model (CSM), included as a stem and leaf diagram in Figure 4. The CSM documents known or potential sources of contamination, affected media, known or potential routes of migration, and known or potential human and environmental receptors.

4.1 Soil Categories

The classifications for soil are listed at 310 CMR 40.0933. Soil at a given site is classified as either S-1, S-2, or S-3, based upon exposure potential. Frequency of use by adults and children, the intensity of the use of the Site, and the accessibility of the soil are considered in the classification of soil. Frequency of use is classified as "high, low, or not present." Intensity is classified as "high or low," and soil accessibility is described as "accessible, potentially accessible, or isolated." These criteria are as follows:

Frequency of Use: The Disposal Site is located within the boundaries of a Massachusetts Department of Mental Retardation residential facility. As such, children and adults are considered present at the Site at a "high frequency".

Intensity of Use: Intensity of use is considered “low,” as normal Site activities do not have the potential to disturb soil.

Accessibility: Impacted surficial soils were observed between zero and seven feet below grade. Portions of the Disposal Site are unpaved, therefore the soil is considered “potentially accessible.”

Using these parameters, soil at the Disposal Site is classified as Category S-2.

4.2 Groundwater Categories

The classifications for groundwater are listed at 310 CMR 40.0932. Groundwater at all locations is classified as category GW-3, based upon its potential to discharge to surface water. Groundwater can also be classified as GW-1 based upon potential to be used as drinking water supply, and as GW-2, based upon the potential for inhalation of vapors of oil or hazardous materials in indoor air.

The GW-1 /GW-2 groundwater classification evaluation for the Disposal Site is based upon a DEP GIS Site Scoring Map, and is shown in the following table. The DEP GIS Site Scoring Map is included for reference as Figure 5.

Table 4 - GW-1 / GW-2 Groundwater Classification Criteria

GW-1 Criteria	GW-1 Classification
1) within the Zone II for a public water supply	No
2) within an Interim Wellhead Protection Area	No
3) within a Potentially Productive Aquifer	No
4) within the Zone A of a Class A surface water body used as a public water supply	No
5) at any point located 500 or more feet from a public water supply distribution pipeline	No
6) at any groundwater sampling point located within 500 feet of a private water supply well	No
GW-2 Criteria	GW-2 Classification
1) Located within 30 feet of an occupied building and average annual depth to water is less than 15 feet	Yes

All on-Site monitoring wells are located within 30 feet of the Site building. Groundwater at the Site was measured at depths of less than 15 feet below grade. As such, annual average depth to groundwater is conservatively assumed to be less than 15 feet and all monitoring wells are subject to the GW-2 groundwater classification. All groundwater at the Site is classified as GW-3, based upon its potential to discharge to surface water.

4.3 Method 1 Risk Characterization Standards

Using the groundwater and soil classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in groundwater and soil at the Site are listed in the MCP 310 CMR 40.0974 and 40.0975, respectively.

4.3.1 Method 1 Risk Characterization - Soil

Using the soil classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in soil at the Site are listed in the MCP 310 CMR 40.0975. The most stringent concentration from each soil and groundwater classification is considered to be the threshold under which a concentration of "No Significant Risk" exists.

EPH constituents were not detected in excess of the laboratory quantification limit of 30 mg/Kg in confirmatory soil samples GP-01 (4-6') and GP-03 (4-6). Laboratory quantification limits for the analyzed constituents are below the applicable Method 1 Risk Characterization Standards tabulated in 310 CMR 40.0975 and Table 3. Using the criteria presented above and laboratory analytical results, a condition of "No Significant Risk" is present for all current and future uses of soil at Site.

4.3.2 Method 1 Risk Characterization - Groundwater

Using the groundwater classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in soil at the Site are listed in the MCP 310 CMR 40.0975. The most stringent concentration from each soil and groundwater classification is considered to be the threshold under which a concentration of "No Significant Risk" exists.

The most stringent concentration from each groundwater classification is considered to be the threshold under which a concentration of "No Significant Risk" exists. For the purposes of this Risk Characterization, EPCs are conservatively defined as the highest concentrations of target analytes in groundwater at the Disposal Site. The EPCs and associated Method 1 Risk Characterization Standards for contaminants detected in Site groundwater are presented in Table 3.

Table 5 - Method 1 Risk Characterization Standards for Groundwater

Compound Detected	Exposure Point Concentration	GW-2/GW-3 Risk Characterization Standards
C9-C18 Aliphatic Hydrocarbons	590	1,000 / 20,000
C19-C36 Aliphatic Hydrocarbons	1,000	No Standard / 20,000
C11-C22 Aromatics Hydrocarbons	1,200	50,000 / 30,000

Note: All concentrations reported in µg/L

Using the criteria presented above, a condition of "No Significant Risk" is present for groundwater at the Disposal Site.

4.4 Potential Receptors and Critical Exposure Pathways

The Site is located within the boundaries of a Massachusetts Department of Mental Retardation Facility. The Fernald Center is situated within a primarily residential area of Waltham, Massachusetts. Private residences and commercial properties surround the Site. No public or private water supply wells are located at residential properties within 500 feet of the Site.

Critical Exposure Pathways (CEP) are defined in 310 CMR 40.006 as those routes by which oil and/or hazardous material(s) release at a disposal site are transported, or are likely to be transported, to human receptors via:

- a) vapor-phase emissions or measurable concentrations of oil and/or hazardous materials into the living or working space of a pre-school, daycare, school or occupied residential dwelling, or;
- b) ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials from drinking water supply wells located at and servicing a pre-school, daycare, school, or occupied residential dwelling.

Impacted soils were encountered within 30 feet of an occupied residential facility. However, PID field screening results and laboratory analysis of confirmatory soil samples indicated that concentrations of EPH were below the applicable Method 1 Risk Characterization standards. No public or private water supply wells are located within 500 feet of the Site. These conditions thereby preclude the possibility of ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials via vapor phase emissions or water supply wells. Therefore, a CEP as defined in 310 CMR 40.006, has not been identified and is not considered likely at the Site.

4.5 Feasibility of Reduction to Background Concentrations

Chapter 21E of the Massachusetts General Laws and the MCP require that if after a remedial action has been completed the concentrations of oil and hazardous material have not been reduced to background, then an evaluation of the feasibility of approaching or achieving background is required.

Approximately 45 cubic yards tons of petroleum-impacted soil were excavated from the Site and transported to an appropriate receiving facility for disposal. Remedial actions were performed such that all soil which could pose risk for current or future uses of the Site was excavated or removed. No detectable concentrations of EPH were identified in any confirmatory soil sample. Accordingly, soil concentrations of petroleum at the Site have been reduced to background. Residual EPH concentrations identified during the January 31, 2003 groundwater sampling round were below the applicable Method 1 Risk Characterization Standards. Concentrations of EPH in the most recent June 9, 2003 groundwater sampling round were below the Method detection limits.

- The incremental cost to continue groundwater monitoring and potentially remove additional soil to achieve background concentrations would increase the cost of the

project disproportionately to the incremental benefit of risk reduction, environmental restoration, and monetary and non-pecuniary values.

- Groundwater at the Disposal Site is not utilized for consumptive uses. Groundwater at the Site is classified as GW-2 and GW-3. Building No. 21 is situated atop a solid, at-grade, concrete foundation. PID field screening completed during Immediate Response Action activities indicated no dateable concentrations of volatile compounds. Off-Site migration of detected petroleum concentrations has not been identified. As such, additional soil excavation and/or treatment of groundwater in an attempt to approach background conditions is considered impractical and cost-prohibitive.
- The public benefits which may be recognized as a result of achieving background are outweighed by the additional cost incurred to achieve background. There are no surrounding properties which may be adversely impacted economically by not reducing remaining concentrations in soil and groundwater to background.
- Natural attenuation will continue to reduce petroleum concentrations, if any, in groundwater at the Site.

Given the current data on groundwater and soil conditions, it is the opinion of Coneco that no additional remedial actions are warranted to reduce the concentrations of petroleum constituents in groundwater to Background (i.e., non-detectable) concentrations.

4.6 Discussion

The Method 1 Risk Characterization, using the criteria presented above, demonstrates that a condition of "No Significant Risk" is present for current and potential future uses of soil and current uses of groundwater at the Site.

5.0 IMMEDIATE RESPONSE ACTION COMPLETION STATEMENT

Environmental conditions of the Site were evaluated in a manner consistent with guidelines presented in the "Massachusetts Contingency Plan" (310 CMR 40.0000). The focus of the IRA is as follows: 1) further delineation of impacted materials and 2) the removal of petroleum-impacted materials.

Immediate Response Actions completed at the Site are summarized below:

- On June 26 and 27, 2002, following verbal approval of Immediate Response Action Activities, petroleum impacted soil was excavated from the former 500-gallon No. 2 fuel oil UST grave. Impacted soil was temporarily stockpiled on-Site and covered and lined with 6-mil polyethylene sheeting in accordance with the specifications of 310 CMR 40.0030 and 310 CMR 30.0040.

-
- From July 15 to July 17, 2002, approximately 45 cubic yards of petroleum impacted soils generated as past of IRA activities, were removed from the Site and transported under a Bill of Lading associated with both the subject release and an additional separate release, identified by Release Tracking Number 3-21893, discovered at another location within Malone Park during a similar UST closure. A combined total of 121.40 tons of impacted soil were removed from the Disposal Site and the nearby release and transported under the Bill of Lading to the ESMI, Inc. facility in Loudon, New Hampshire for proper disposal via thermal processing.
 - Follow the completion of soil removal activities, five composite soil samples were collected from the former 500-gallon No. 2 fuel oil UST grave base and sidewalls and submitted to Spectrum Analytical, Incorporated (Spectrum), an independent Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for confirmatory analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. No EPH concentrations were detected in any of the submitted soil samples.
 - On January 20, 2003, Geoprobe test borings were advanced at the Site by New England Geotech. Three test borings were advanced to depths ranging from six to 14 feet below grade to provide environmental data subsequent to IRA excavation activities. *In situ* soil samples were obtained from the soil borings and screened in the field for the presence of VCs. Field PID headspace screening indicated no VC concentrations above the instrument quantification limit of 0.2 ppm. Two soil samples obtained from the soil borings were submitted for confirmatory analysis at an independent Massachusetts-certified laboratory. Confirmatory analysis indicated that concentrations of EPH in both samples were not detected above the laboratory quantification limits, which are below the applicable Method 1 Risk Characterization Standards.
 - On January 31 and June 9, 2003, the three on-Site monitoring wells were sampled for analysis of EPH by the DEP Method. Analyses indicated that concentrations of EPH constituents detected during the January 31, 2003 sampling round were below the applicable Method 1 Risk Characterization standards. Concentrations of EPH in the most recent June 9, 2003 groundwater sampling round were below the Method detection limits.

Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the Immediate Response Action are required. An Immediate Response Action Transmittal Form (BWSC-105) is included in Appendix 4.

6.0 RESPONSE ACTION OUTCOME

- A summary and conclusions of the Response Action are as follows:
- No uncontrolled sources of contamination are present at the Site. As a result, no additional response actions are necessary at the Site.

- EPH constituents were not detected in excess of the laboratory quantification limit of 30 mg/Kg in confirmatory soil samples collected following the completion of Immediate Response Action excavation activities or the subsequent Geoprobe® subsurface investigation. Laboratory quantification limits for the analyzed constituents are below the applicable Method 1 Risk Characterization Standards tabulated in 310 CMR 40.0975.
- Laboratory analysis of EPH concentrations in groundwater samples collected during the January 31, 2003 sampling round were below the applicable Method 1 Risk Characterization standards. Concentrations of EPH in the most recent June 9, 2003 groundwater sampling round were below the Method detection limits. The detected concentrations of EPH constituents and the laboratory quantification limits are both below the applicable Method 1 Risk Characterization Standards tabulated in 310 CMR 40.0974.
- A Method 1 Risk Characterization has shown that a Permanent Solution and a level of “No Significant Risk” exist at the Disposal Site for all current and future activities and uses.
- Conditions for a Class A-2 RAO specified at 310 CMR 40.1035 and 310 CMR 40.1036 have been met at the Site.
- An RAO Transmittal Form (BWSC - 104) and copies of Municipal Notifications are included as Appendix 4.

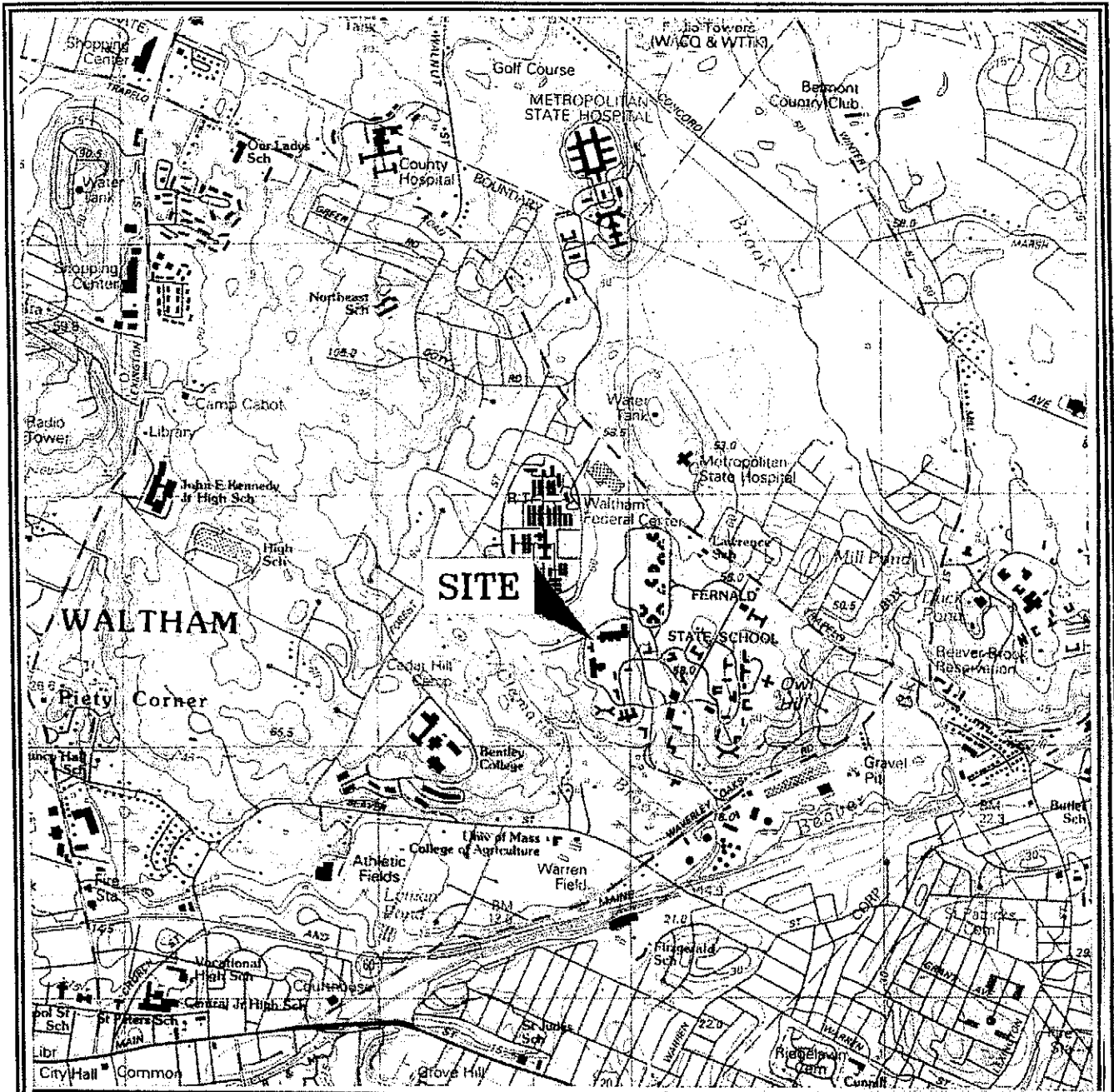
Based on the information presented herein, and subject to the limitations of the proposed Scope of Services, it is the opinion of Coneco that a condition of “No Significant Risk” to human health, safety, public welfare, and the environment exists at the Site.

Pursuant to 310 CMR 4.03, response actions conducted by State Agencies are exempt from the Response Action Outcome compliance fee as described in 310 CMR 40.0156(3).

7.0 LIMITATIONS

The conclusions expressed by Coneco in this report are based solely on the references cited. Observations were made under the conditions stated. Information provided by federal, state, and local agencies contacted was relied upon as accurate and complete. This study was conducted to define the limits of petroleum-impacted media and reduce petroleum concentrations. This report represents Coneco’s opinion relative to the referenced findings. Unless otherwise specified in the scope of work, Coneco accepts no responsibility for client performance of recommendations as may be offered in this report. No attempt was made to investigate Site owner or operator compliance with federal, state, or local laws and regulations in connection with Site usage.

Should additional information become available concerning this Site or neighboring properties, Coneco should be given the opportunity to review and modify the Site investigation findings, as necessary. With specific regard to subsurface explorations, data obtained from soil sampling may not be wholly representative of the nature and extent of subsurface conditions at locations other than the actual sample location. Variable conditions may only become evident upon further exploration. If variations become apparent in the future, it will be necessary to reevaluate the conclusions and recommendations offered in this report.



U.S.G.S. 1985
Boston North, Massachusetts
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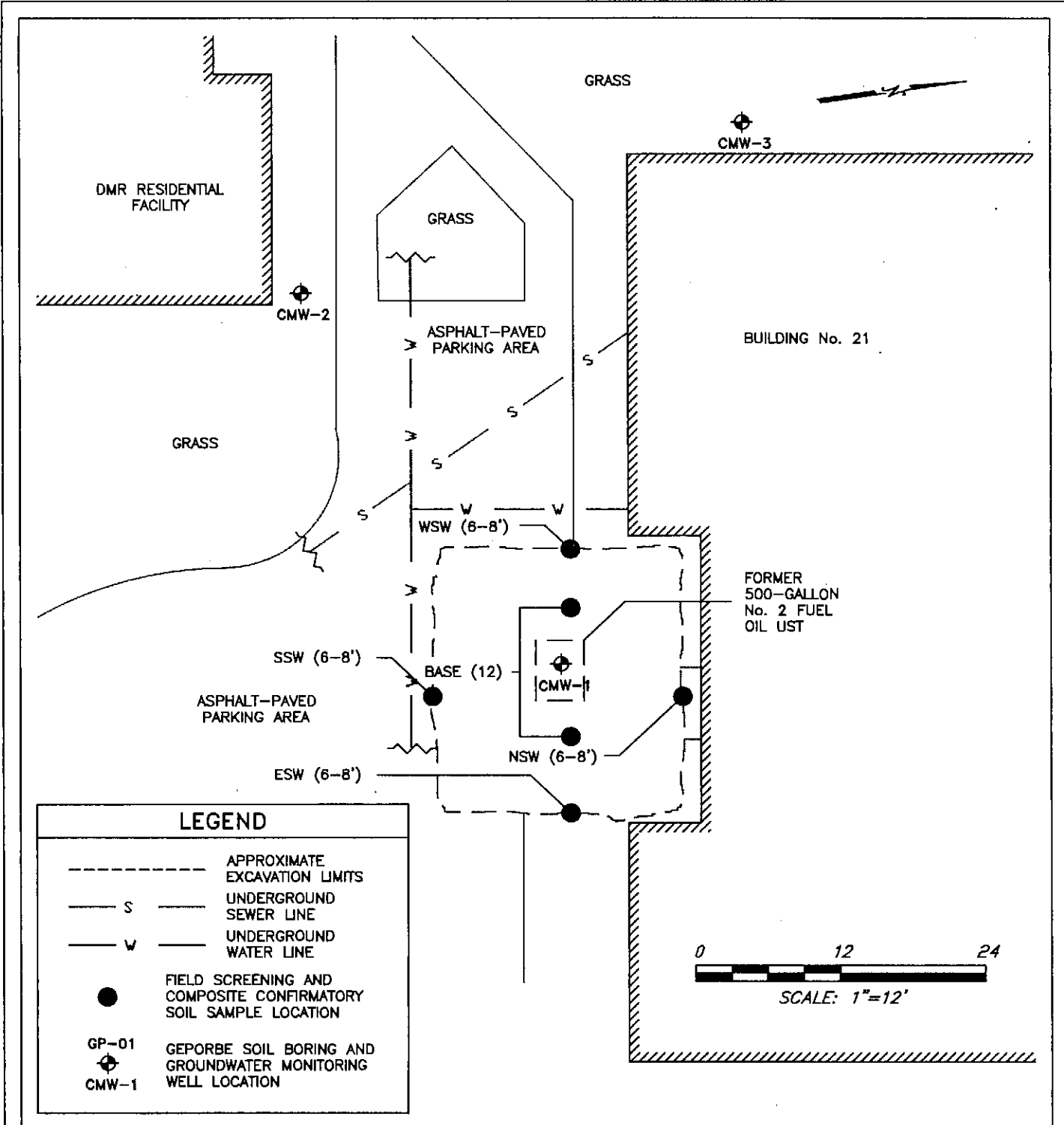
Coordinates: 42° 23' 28" N 71° 12' 59" W
 UTM 4,695,380 N 317,560 E (Zone 19)

Coneco Engineers & Scientists

Site Locus Map

Fernald Center
Malone Park - Building No. 21
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21892

FIGURE 1



LEGEND	
	APPROXIMATE EXCAVATION LIMITS
	UNDERGROUND SEWER LINE
	UNDERGROUND WATER LINE
	FIELD SCREENING AND COMPOSITE CONFIRMATORY SOIL SAMPLE LOCATION
	GEORBE SOIL BORING AND GROUNDWATER MONITORING WELL LOCATION
	CMW-1

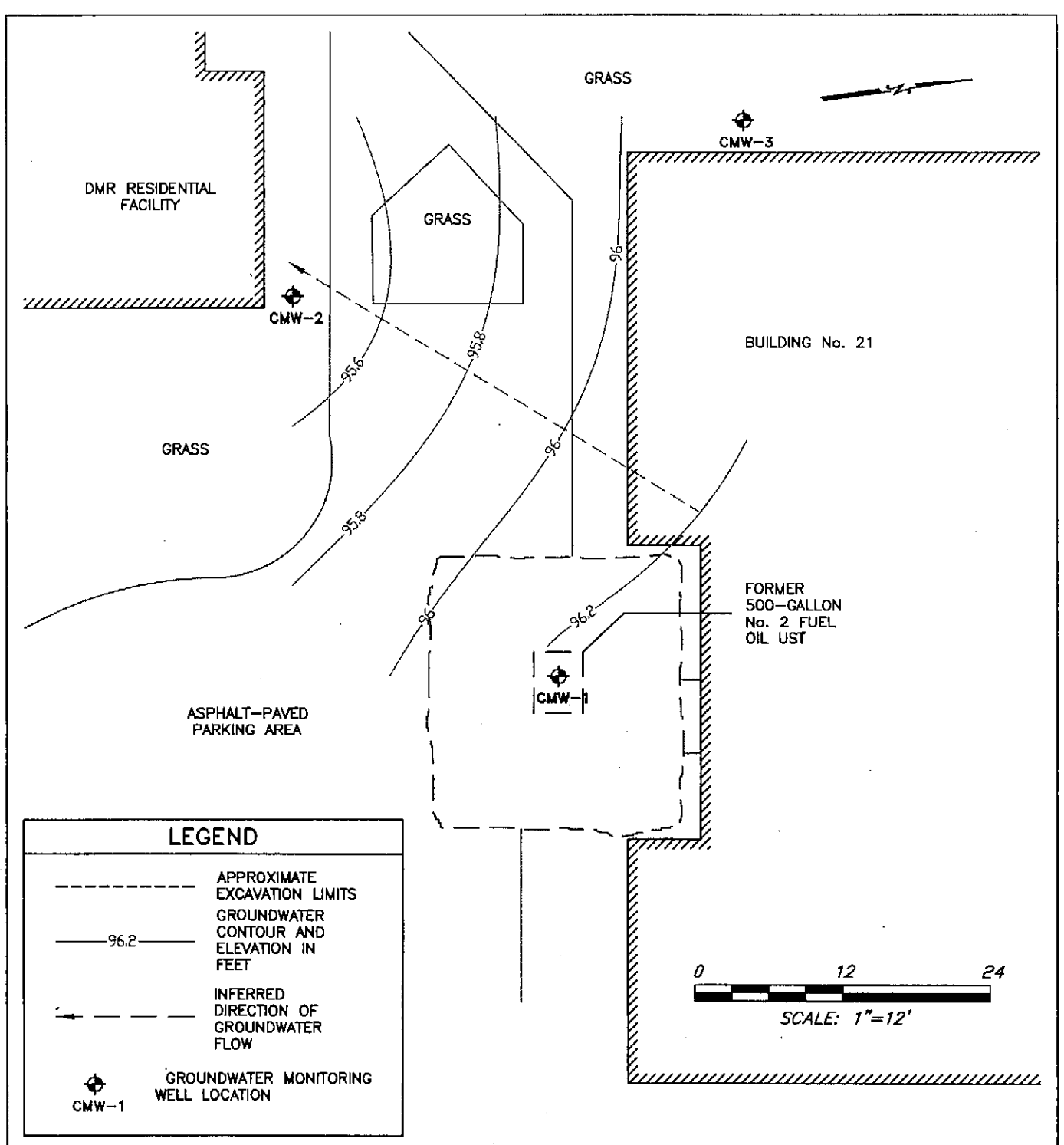


4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 697-3191

SITE PLAN

FERNALD CENTER-MALONE PARK
 BUILDING 21
 WALTHAM, MASSACHUSETTS
 TELEASE TRACKING NUMBER 3-21892

BY	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
JSS	JSS	BFK	D://Drawings/4701.dwg	AS NOTED	4701	FIGURE 2
DATE	09/24/02	09/25/02				



LEGEND

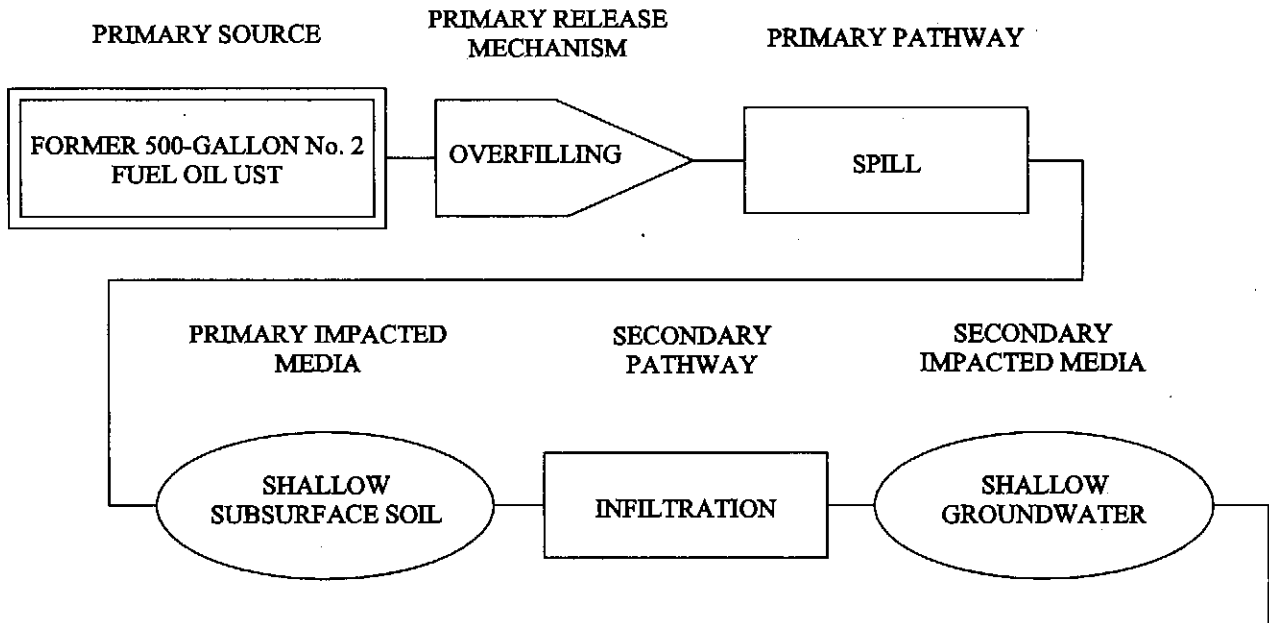
- APPROXIMATE EXCAVATION LIMITS
- 96.2— GROUNDWATER CONTOUR AND ELEVATION IN FEET
- INFERRED DIRECTION OF GROUNDWATER FLOW
- ⊕ CMW-1 GROUNDWATER MONITORING WELL LOCATION



4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3191

GROUNDWATER CONTOUR PLAN
FERNALD CENTER-MALONE PARK
BUILDING 21
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-21892

BY	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
JSS	JSS	BFK	D:/drawings/4701.gw.dwg	AS NOTED	4701	FIGURE 3
DATE	06/20/03	06/25/03				



EXPOSURE ROUTE	POTENTIAL RECEPTOR			
	AREA RESIDENT	SITE VISITOR	TERRESTRIAL BIOTA	AQUATIC BIOTA
INGESTION				
DERMAL ABSORPTION				
INHALATION				

CONCEPTUAL SITE MODEL

**MALONE PARK BUILDING No. 21
 MASSACHUSETTS DMR FERNALD CENTER
 200 TRAPELO ROAD
 WALTHAM, MASSACHUSETTS
 RELEASE TRACKING NUMBER 3-21892**

SCALE	PROJECT NO.	DRAWING NUMBER
N / A	4701	FIGURE 4

CONECO
Engineers & Scientists

4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 697-3191

BY	DRAWN	CHECKED	CAD FILE NO.
JSS	JSS	BFK	\\A:\mtdg\09121\concep1.dwg
DATE	6/20/03	6/25/03	

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

Fernald Center
200 Trapello Road
WALTHAM, MA 02452
4695380n 317560ew



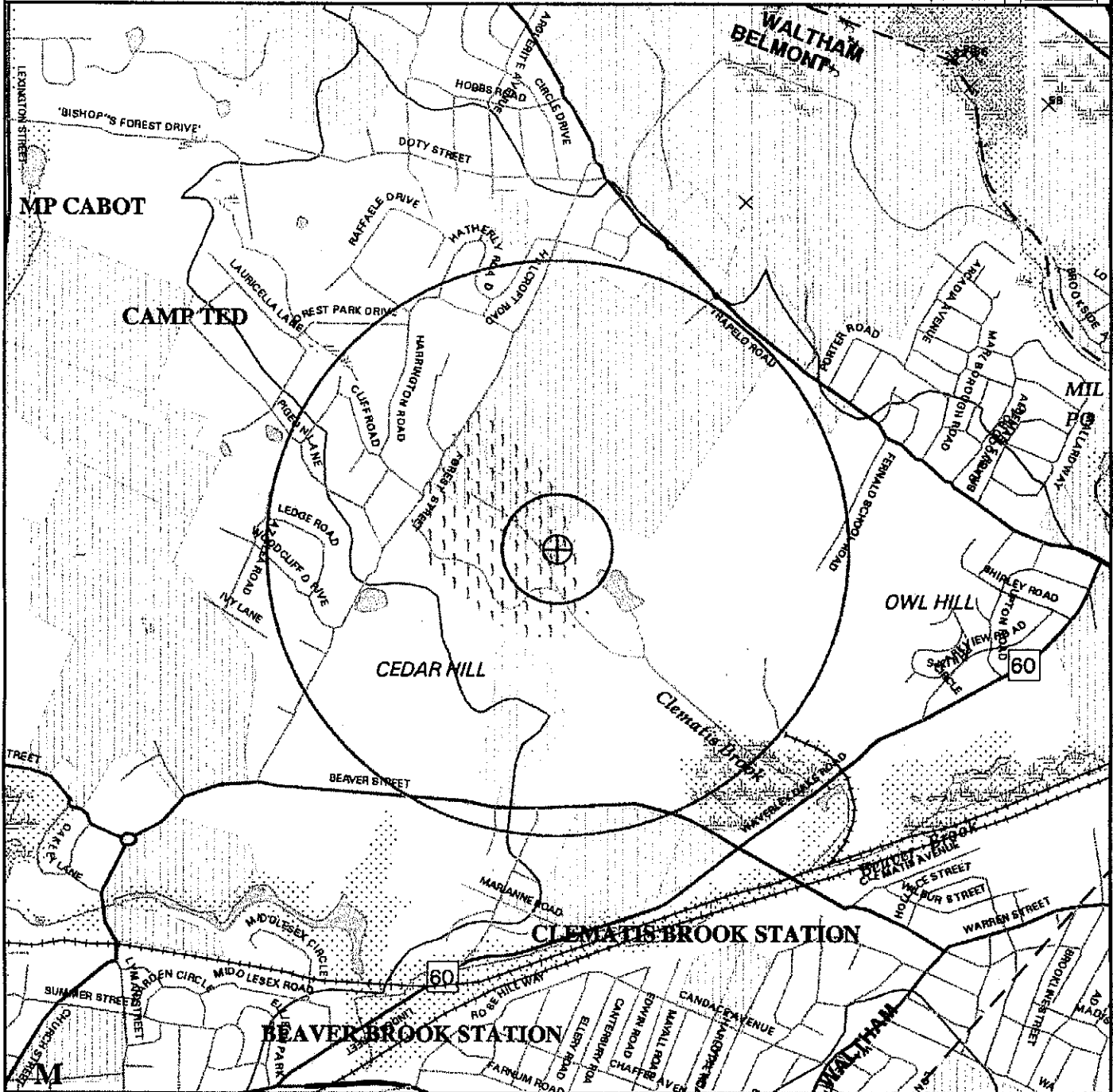
The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Massachusetts Geographic Information System



Massachusetts Executive Office of Environmental Affairs - 2003



- Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail
- Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
- Beams: Major, Sub; Streams: Perennial, Intermittent, Man Made Shores, Dams
- Potentially Productive Aquifers: Medium, High Yield
- Non-Potential Drinking Water Source Area: Medium, High Yield

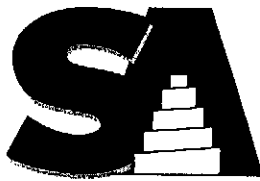
- EPA Sole Source Aquifer; FEMA 100-year floodplain
- Public Water Supplies: Ground, Surface, Non Community Approved Zone 2; NVPA; Surface Water Supply Zone A
- Hydrography: Water Features, Public Surface Water Supply
- Wetlands: Fresh, Salt, NHEHP Wetlands Habitat
- Protected Open Space; ACEC
- DEP Permitted Solid Waste Facilities; Certified Vernal Pools



SCALE 1:15000

June 27, 2003

**Original Laboratory Data, Laboratory QA/QC, Methods,
and Chain of Custody Forms**



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Attn: Tom Brunette

Client Project Number: 4701

Wednesday, July 10, 2002

Report Status:

- Final Report
- Re-issued Report
- Revised Report



Location: Fernald Ctr - Waltham, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD24696	NSW 4-6	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD24697	ESW 4-6	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD24698	SSW 4-6	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD24699	WSW 4-6	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD24700	Base 7	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD24701	Stockpile-01	% Solids TPH by GC Ultrasonic Extraction



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 4701

Location: Fernald Ctr - Waltham, MA

Laboratory ID

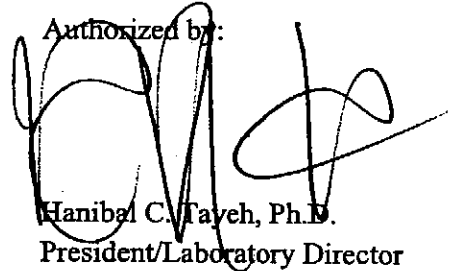
Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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

Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fernald Ctr - Waltham, MA

Client: CONECO

Lab ID No: AD24696

Client Id: NSW 4-6

Client Project No: 4701

Submittal Date: 7/1/2002

Collection Date: 6/27/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/3/2002	MP	SW846 35501
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	7/9/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	45	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	45	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	53	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	54	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
% Solids	93	%		7/3/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/3/2002	MP	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	7/9/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	58	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	55	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	69	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	63	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
% Solids	86.8	%		7/3/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/3/2002	MP	SW846 35501
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	7/9/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	160	7/9/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	63	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	51	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	65	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	57	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
% Solids	85.3	%		7/3/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/3/2002	MP	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	7/9/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	66	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	55	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	73	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	63	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
% Solids	87.5	%		7/3/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/3/2002	MP	SW846 3550E
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	7/9/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	7/9/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	7/9/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	66	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	56	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	55	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	66	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	7/9/2002	MSL	MA EPH 98-1
% Solids	87.2	%		7/3/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			7/9/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>TPH by GC</i>						
Gasoline	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Fuel Oil #2	62	mg/Kg	30	7/9/2002	JD	SW846 8100M
Fuel Oil #4	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Fuel Oil #6	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Motor Oil	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Ligroin	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Aviation Fuel	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Unidentified	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Other Oil	Below det lim	mg/Kg	30	7/9/2002	JD	SW846 8100M
Total Hydrocarbons (GC)	62	mg/Kg	30	7/9/2002	JD	SW846 8100M
1-Chloro-octadecane (%SR)	75	mg/Kg	0.	7/9/2002	JD	SW846 8100M
% Solids	86.6	%		7/9/2002	AAS	SM2540 B Mod

Parameter Results Units PQL Start Date Analyst Method

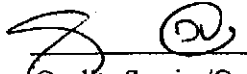
The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH<2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to ≤2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 4°C

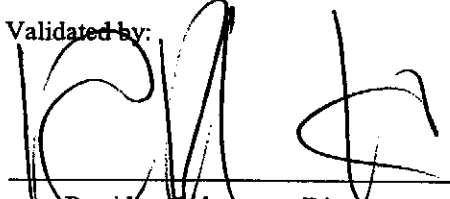
Were all QA/QC procedures followed as required by the EPH method? Yes No
Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below
Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

* Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest 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.

Reviewed by:


Quality Service/Quality Assurance Depts.

Validated by:


President/Laboratory Director

7/10/2002



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Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

- Gasoline – includes regular, unleaded, premium, etc.
- Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
- Fuel Oil #4 – includes #4 fuel oil
- Fuel Oil #6 – includes #6 fuel oil and bunker “C” oil
- Motor Oil – includes virgin and waste automobile oil
- Ligroin – includes mineral spirits, petroleum naphtha, vm&cp naphtha
- Aviation Fuel – includes kerosene, Jet A and JP-4
- Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of “unidentified” means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.



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References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standard
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



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CHAIN OF CUSTODY RECORD

Special Handling: 3-5 days
Standard TAT - 7-10 business days

- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: Conoco Invoice To: SAME Project No.: 4701
4 First St. Site Name: Fernald Ch. Site Name: Fernald Ch. State: MA
Bridgewater MA 02324 Location: Waltham Location: Waltham State: MA
 Project Mgr.: Tam Brunette P.O. No.: 4701 RQN: _____
 P.O. No.: 4701 RQN: _____

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9= _____ 10= _____

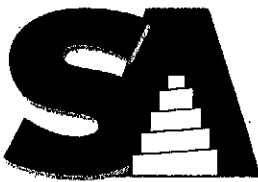
DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative				Containers	Analyses	Notes
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
SW 4-6	NSW-4-6'	6/27	PM	G	SO	1	1	1	1			
SW 4-6	ESW 4-6'	6/27	PM	G	SO	1	1	1	1			
SW 4-6	SSW 4-6'	6/27	PM	G	SO	1	1	1	1			
SW 4-6	WSW 4-6'	6/27	PM	G	SO	1	1	1	1			
SW 7'	Base 7'	6/27	PM	G	SO	1	1	1	1			
SW 21'	Stockpile-01	6/27	PM	G	SO	1	1	1	1			
AC												
AC												
AC												
AC												

TPH 8100 DRD
 XXXX EPH (DEF)
 XXXX

Requisitioned by: Amey M. Burches Received by: Bergeson Date: 7/1/02 Time: 1:30 PM
Bergeson Date: 7/1/02 Time: 1:15

Fax results when available to (508) 697-5996
 E-mail results when available to _____
 Condition upon Receipt: Iced Ambient 4 °C



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HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Attn: Jedd Steinglass

Client Project Number: 4701

Tuesday, February 04, 2003

Report Status:

- Final Report
- Re-issued Report
- Revised Report



Location: Building 21-Waltham, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD65288	GP-01 (4-6)	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD65289	GP-03 (4-6)	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by:

Hanibal C. Tayeh, Ph.D.
Resident/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Building 21-Waltham, MA

Client: CONECO

Lab ID No: AD65288

Client Id: GP-01 (4-6)

Client Project No: 4701

Submittal Date: 1/22/2003

Collection Date: 1/20/2003

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/24/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/31/2003	KG	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	60	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	50	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	46	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	64	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
% Solids	89.9	%		1/23/2003	BH	SM2540 B Mod.

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/24/2003	AM	SW846 35501
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	1/31/2003	KG	MA EPH 98-
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/31/2003	KG	MA EPH 98-
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	1/31/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	48	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	50	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	43	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	60	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	1/31/2003	KG	MA EPH 98-1
% Solids	90.8	%		1/23/2003	BH	SM2540 B Mod.

Parameter Results Units PQL Start Date Analyst Method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH < 2 <input type="checkbox"/> pH > 2 <input type="checkbox"/> pH adjusted to <= 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 6°C

Were all QA/QC procedures followed as required by the EPH method? Yes No


Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

* Sample(s) was run via GCMS using all QC criteria specified in the method.

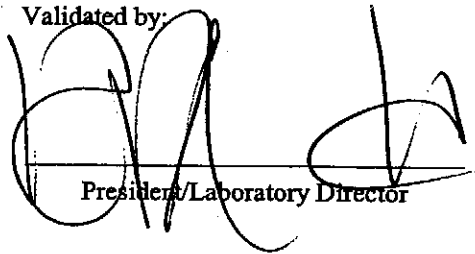
I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:



Quality Service/Quality Assurance Depts.

Validated by:



President/Laboratory Director

2/4/2003



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Water
	Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.
Partnering
 HANDHAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling *(Signature)*

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: FRED STEINWASS
GENEVA
4 PLAST ST
B.2104 EVANSTON, MA 02324
 Project Mgr.: DBS

Invoice To: Same
 P.O. No.: 4701
33011020
 RQN: _____

Project No.: 4701
 Site Name: BUILDING 21
 Location: FRANK CENTER, WILTHAM
 State: MA
 Sampler(s): DBS / MFM

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
 7= CH_3OH 8= NaHSO_4 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	Notes:
AD5088	GP-01(4-C)	1/20/03	10am	G	SO	N/A	1	1	1	1	1	EPHX MADEP	✓
AD5089	GP-03(4-C)	1/20/03	10am	G	SO	N/A	1	1	1	1	1	EPHX MADEP	✓
AD													
AD													
AD													
AD													
AD													
AD													
AD													

Fax results when available to (_____) _____
 E-mail results when available to STEINWASS@GENEVA.COM
 Condition upon Receipt: Iced Ambient 6 °C

Relinquished by: (Signature) Date: 1-22-03 Time: 12:15pm
 Received by: (Signature) Date: 1-22-03 Time: 3PM

Ref



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Tuesday, February 18, 2003

Report Status:

- Final Report
- Re-issued Report
- Revised Report

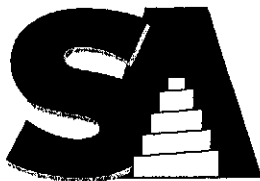


Client Project Number: 4701

Location: 200 Trapelo Rd-Waltham,MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD66895	#23 CMW-1	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD66896	#21 CMW-2	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD66897	#21 CMW-3	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD66898	#21 CMW-1	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes

Please note:
Sample AD66895 pertains to a separate
release at: Malone Park



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 4701

Location: 200 Trapelo Rd-Waltham, MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: 200 Trapelo Rd-Waltham,MA

Client: CONECO

Lab ID No: AD66895

Client Id: #23 CMW-1

Client Project No: 4701

Submission Date: 2/3/2003

Collection Date: 1/31/2003

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			2/5/2003	KG	SW846 35100
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	110	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	44	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	103	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	104	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		2/13/2003	JD	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	69	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
2-Methylnaphthalene	200	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Acenaphthene	62	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Fluorene	99	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Phenanthrene	160	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Anthracene	11	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Pyrene	39	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	80	ug/L	0.	2/13/2003	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	54	ug/L	0.	2/13/2003	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	90	ug/L	0.	2/13/2003	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	100	ug/L	0.	2/13/2003	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	2/13/2003	JD	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			2/5/2003	KG	SW846 3510C
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	2/13/2003	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		2/13/2003	JD	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	2/13/2003	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	73	ug/L	0.	2/13/2003	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	47	ug/L	0.	2/13/2003	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	90	ug/L	0.	2/13/2003	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	84	ug/L	0.	2/13/2003	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	2/13/2003	JD	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			2/5/2003	KG	SW846 3510
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	2/14/2003	KG	MA EPH 98-
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	2/14/2003	KG	MA EPH 98-
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	2/14/2003	KG	MA EPH 98-
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	2/14/2003	KG	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		2/14/2003	KG	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	2/14/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	46	ug/L	0.	2/14/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	71	ug/L	0.	2/14/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	64	ug/L	0.	2/14/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	81	ug/L	0.	2/14/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	2/14/2003	KG	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			2/5/2003	KG	SW846 3510C
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	0.59	mg/L	0.2	2/13/2003	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	1.0	mg/L	0.2	2/13/2003	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	1.2	mg/L	0.2	2/13/2003	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	1.2	mg/L	0.2	2/13/2003	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		2/13/2003	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	2/13/2003	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	83	ug/L	0.	2/13/2003	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	78	ug/L	0.	2/13/2003	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	81	ug/L	0.	2/13/2003	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	94	ug/L	0.	2/13/2003	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	2/13/2003	MSL	MA EPH 98-1

Parameter Results Units PQL Start Date Analyst Method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous	<input type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Broken	<input type="checkbox"/> Leaking	
Aqueous Preservative	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> pH<2	<input type="checkbox"/> pH>2	<input type="checkbox"/> pH adjusted to <2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice	<input checked="" type="checkbox"/> Received cold	<input type="checkbox"/> Received ambient	<input checked="" type="checkbox"/> Recorded temperature: 5°C

Were all QA/QC procedures followed as required by the EPH method? Yes No

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

* Sample(s) was run via GCMS using all QC criteria specified in the method.

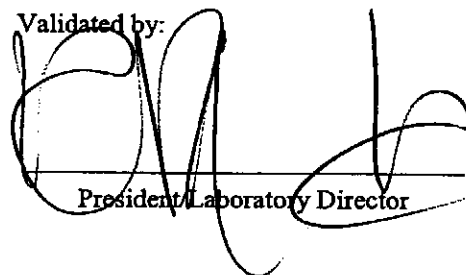
I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:



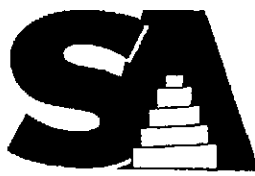
 Quality Service/Quality Assurance Depts.

Validated by:



 President/Laboratory Director

2/18/2003



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
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HANDAL TECHNOLOGY

Page 1 of 1

Special Handling: Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
All samples are disposed of after 60 days unless otherwise instructed.

Report To: Conoco

4 First St
Bridgewater MA
02324

Invoice To: _____

33020119

Project Mgr: _____

P.O. No.: 4701 RQN: _____

Project No.: 4701

Site Name: 200 Trapelo Rd

Location: Waltham

State: MA

Sampler(s): PSS/JSS

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

Containers:

Analyses:

Notes:

DW=Drinking Water GW=Groundwater W/W=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

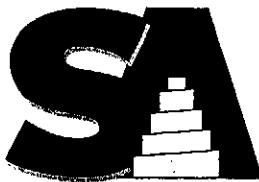
Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	EPH by DEP Method	Received by:	Date:	Time:
D0885	#23 Cms-1	1/3/03	4:00	G	GD	Z	1				✓	Analysis per client	2/3/03	12:35
D0886	#21 Cms-2			G	GD	Z	1				✓			
D0887	#21 Cms-3			G	GD	Z	1				✓			
D0888	#21 Cms-1			G	GD	Z	1				✓			
AD														
AD														
AD														
AD														
AD														

Fax results when available to (____) _____
 E-mail results when available to jstekinglass@conoco.com
Condition upon Receipt: Iced Ambient 5 °C

Relinquished by: [Signature]

Received by: [Signature]

Rep



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Attn: Luke Dwyer

Client Project Number:

Tuesday, June 24, 2003

Report Status:

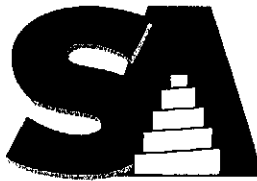
- Final Report
 Re-issued Report
 Revised Report



Location: 200 Trapello Rd-Waltham, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD92341	CMW-1 (21)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD92342	CMW-2 (21)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD92343	CMW-3 (21)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD92344	CMW-1 (23)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD92345	CMW-2 (23)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes
AD92346	CMW-3 (23)	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes

Please Note:
Samples AD92343 through AD92345 pertain
to a separate release at Malone Park.



SPECTRUM ANALYTICAL, INC.

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HANIBAL TECHNOLOGY

Client Project Number:

Location: 200 Trapello Rd-Waltham, MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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

Authorized by

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: 200 Trapello Rd-Waltham, MA

Client: CONECO

Lab ID No: AD92341

Client Id: CMW-1 (21)

Client Project No:

Submittal Date: 6/11/2003

Collection Date: 6/9/2003

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/17/2003	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	KG	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	51	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	50	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	50	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	52	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	KG	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/18/2003	VK	SW846 35100
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	KG	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	63	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	49	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	51	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	53	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	KG	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/18/2003	VK	SW846 3510C
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	6/20/2003	KG	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	KG	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	KG	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	59	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	58	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	50	ug/L	0.	6/20/2003	KG	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	50	ug/L	0.	6/20/2003	KG	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	KG	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/18/2003	VK	SW846 3510
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	34	mg/L	0.2	6/20/2003	JD	MA EPH 98-
C19-C36 Aliphatic Hydrocarbons	14	mg/L	0.2	6/20/2003	JD	MA EPH 98-
C11-C22 Aromatic Hydrocarbons	24	mg/L	0.2	6/20/2003	JD	MA EPH 98-
Unadjusted C11-C22 Aromatics	24	mg/L	0.2	6/20/2003	JD	MA EPH 98-
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	JD	MA EPH 98-
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluorene	32	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Phenanthrene	55	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Anthracene	7.3	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluoranthene	5.1	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Pyrene	20	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	67	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	89	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	82	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	JD	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/18/2003	VK	SW846 3510C
Pétroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	1.7	mg/L	0.2	6/20/2003	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.69	mg/L	0.2	6/20/2003	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	1.7	mg/L	0.2	6/20/2003	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	1.7	mg/L	0.2	6/20/2003	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	JD	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	76	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	60	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	89	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	85	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	JD	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Separatory Funnel Extraction	Completed			6/18/2003	VK	SW846 3510
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	0.93	mg/L	0.2	6/20/2003	JD	MA EPH 98-
C19-C36 Aliphatic Hydrocarbons	0.64	mg/L	0.2	6/20/2003	JD	MA EPH 98-
C11-C22 Aromatic Hydrocarbons	0.78	mg/L	0.2	6/20/2003	JD	MA EPH 98-
Unadjusted C11-C22 Aromatics	0.78	mg/L	0.2	6/20/2003	JD	MA EPH 98-
Carbon Chain Dilution Factor	1	mg/L		6/20/2003	JD	MA EPH 98-
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	6/20/2003	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	69	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	52	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	49	ug/L	0.	6/20/2003	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	48	ug/L	0.	6/20/2003	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	6/20/2003	JD	MA EPH 98-1

Parameter Results Units PQL Start Date Analyst Method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous	<input type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Broken	<input type="checkbox"/> Leaking		
Aqueous Preservative	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> pH < 2	<input type="checkbox"/> pH > 2	<input type="checkbox"/> pH adjusted to < 2 in lab	Comment:
Temperature	<input type="checkbox"/> Received on ice	<input checked="" type="checkbox"/> Received cold	<input type="checkbox"/> Received ambient	<input checked="" type="checkbox"/> Recorded temperature: 10°C	

Were all QA/QC procedures followed as required by the EPH method? Yes No


Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

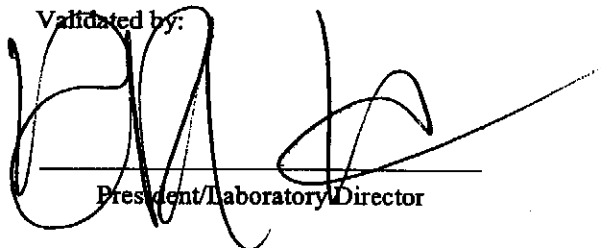
* Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest 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.

Reviewed by:


 Quality Service/Quality Assurance Depts.

Validated by:


 President/Laboratory Director

6/24/2003



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Stand
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laborato
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes.
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office
	Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.
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HARITAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: VOID 11-03
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 All samples are disposed of after 60 days unless otherwise instructed.

Report To: Luca Bulfer
Senior Engineers & Scientists
4 First St
Bridgewater, MA 02324

Invoice To: Same

P.O. No.: 420
 R.O.N.: 23061002

Project No.: _____
 Site Name: 200 Trapelo Rd.
 Location: Waltham State: MA
 Sampler(s): LMU

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	Notes:
AD	Q2341	6/19/03	12:00 pm	G	GW	2	1						
AD	Q2342						1						
AD	Q2343						1						
AD	Q2344						1						
AD	Q2345						1						
AD	Q2346						1						

Fax results when available to 508) 697 5996
 E-mail results when available to _____
 Condition upon Receipt: Iced Ambient 10 °C

Relinquished by: Jean Delmont Received by: Bergman Date: 6-11-03 Time: 10:43 AM
Bergman W. T. 6/11/03 10:24

Rpt.

Bill of Lading



BILL OF LADING (pursuant to 310 CMR 40.0030)

3 - 21892

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

Release Name (optional): Fernald Center - Malone Park
Street: 200 Trapelo Road Location Aid: Fernald Center
City/Town: Waltham Zip Code: 02454 - 0000
Date/Period of Generation: 06 / 27 / 02 to 07 / 12 / 02
Additional Release Tracking Numbers Associated with this Bill of Lading: 3-21893

**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: Dept. of Mental Retardation
Name of Contact: David Chan Title: Project Engineer
Street: 500 Harrison Avenue
City/Town: Boston State: MA Zip Code: 02118 - 0000
Telephone: 617 - 624 - 7881 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: ESMI, Inc.
Contact Person: Julie Virgin Title: Office Manager
Street: 67 International Drive
City/Town: Louden State: NH Zip Code: 03307 - 0000
Telephone: 603 - 783 - 0228 Ext. _____

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

Operator/Facility Name: ESMI, Inc.
Contact Person: Julie Virgin Title: Office Manager
Street: 67 International Drive
City/Town: Louden State: NH Zip Code: 03307 - 0000
Telephone: 603 - 782 - 0228 Ext. _____

- Type of Facility (check one)
- | | | |
|--|---|--|
| <input type="checkbox"/> Asphalt Batch/Cold Mix | <input type="checkbox"/> Landfill/Disposal | <input type="checkbox"/> Incinerator |
| <input type="checkbox"/> Asphalt Batch/Hot Mix | <input type="checkbox"/> Landfill/Daily Cover | <input type="checkbox"/> Temporary Storage |
| <input checked="" type="checkbox"/> Thermal Processing | <input type="checkbox"/> Landfill/Structural Fill | <input type="checkbox"/> Other: _____ |

Division of Hazardous Waste/Class A Permit #: _____ Division of Solid Waste Management Permit #: DES-SW-SP-96-002 EPA Identification #: NH5986485852

Actual/Anticipated Period of Temporary Storage (specify dates if applicable): _____ / _____ / _____ to _____ / _____ / _____

Reason for Temporary Storage (if applicable): _____



BILL OF LADING (pursuant to 310 CMR 40.0030)
LOG SHEET _____ OF _____

Release Tracking Number

3-21892

I. LOAD INFORMATION:

LOAD 1: Signature of Transporter Representative: [Signature]
 Date of Shipment: 7/15/02 Time of Shipment: 10:00 (circle one) am/pm
 Truck/Tractor Registration: N.H. AR1604 Trailer Registration (if any): N.H. TD7004

Receiving Facility/Temporary Storage Representative: [Signature]
 Date of Receipt: 7/15/02 Time of Receipt: _____ (circle one) am/pm
 Load Size (cu. yds./tons): 35.57

LOAD 2: Signature of Transporter Representative: [Signature]
 Date of Shipment: 7/15/02 Time of Shipment: 2:45 (circle one) am/pm
 Truck/Tractor Registration: N.H. AR1604 Trailer Registration (if any): N.H. TD7004

Receiving Facility/Temporary Storage Representative: [Signature]
 Date of Receipt: 7/15/02 Time of Receipt: _____ (circle one) am/pm
 Load Size (cu. yds./tons): 33.10

LOAD 3: Signature of Transporter Representative: [Signature]
 Date of Shipment: 7/16/02 Time of Shipment: 12:00 (circle one) am/pm
 Truck/Tractor Registration: N.H. AR1604 Trailer Registration (if any): N.H. TD7004

Receiving Facility/Temporary Storage Representative: [Signature]
 Date of Receipt: 7/16/02 Time of Receipt: _____ (circle one) am/pm
 Load Size (cu. yds./tons): 40.51

LOAD 4: Signature of Transporter Representative: _____
 Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
 Date of Receipt: ____/____/____ Time of Receipt: ____:____ (circle one) am/pm
 Load Size (cu. yds./tons): _____

LOAD 5: Signature of Transporter Representative: _____
 Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
 Date of Receipt: ____/____/____ Time of Receipt: ____:____ (circle one) am/pm
 Load Size (cu. yds./tons): _____

LOAD 6: Signature of Transporter Representative: _____
 Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
 Date of Receipt: ____/____/____ Time of Receipt: ____:____ (circle one) am/pm
 Load Size (cu. yds./tons): _____

LOAD 7: Signature of Transporter Representative: _____
 Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
 Date of Receipt: ____/____/____ Time of Receipt: ____:____ (circle one) am/pm
 Load Size (cu. yds./tons): _____

J. LOG SHEET VOLUME INFORMATION:

Total Volume This Page (cu. yds./tons): 109.18
 Total Carried Forward (cu. yds./tons): —
 Total Carried Forward and This Page (cu. yds./tons): 109.18



Massachusetts Department of Environmental Protection BWSC-012B
 Bureau of Waste Site Cleanup

Release Tracking Number:

BILL OF LADING (pursuant to 310 CMR 40.0030)
LOG SHEET OF

3- 21892

I. LOAD INFORMATION:

LOAD 1: Signature of Transporter Representative:

Richard B. ... R+S

Date of Shipment: 7/17/02 Time of Shipment: 9:15 (circle one) am/pm

Truck/Tractor Registration: AK 8523 Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

ESMILY JULIA ...

Date of Receipt: 7/17/02 Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons): 12.22

LOAD 2: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOAD 3: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOAD 4: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOAD 5: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOAD 6: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOAD 7: Signature of Transporter Representative:

Date of Shipment: / / Time of Shipment: (circle one) am/pm

Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: / / Time of Receipt: (circle one) am/pm

Load Size (cu. yds./tons):

LOG SHEET VOLUME INFORMATION:

Total Volume This Page (cu. yds./tons): 12.22

Total Carried Forward (cu. yds./tons): 109.18

Total Carried Forward and This Page (cu. yds./tons): 121.40

Standard Operating Procedures

Standard Operating Procedure: Field Headspace Screening -Photoionization Detector

Discussion:

Sample materials collected in the field are placed in tightly sealed clean glass jars to be screened for volatile compounds using either a HNU Model PI-101 or HW-101 photoionization detector (PID). CONECO utilizes the HW-101 when the field personnel consider moisture to be a potential variable. The PIDs can be used to detect organic or inorganic compounds with specific ionization potentials, however, individual compounds cannot be discriminated. Therefore, the results for total volatile vapor concentrations are expressed in the meter reading which the manufacturer defines as parts per million (ppm) of an equivalent amount of benzene. The limit of detectability of the screening procedure is 0.1 ppm.

Each instrument is cleaned and calibrated in accordance with the manufacturer's specifications on a regular basis. CONECO maintains individual maintenance and calibration logs for each PID. Prior to use in the field, the PID is calibrated using a benzene standard or equivalent (isobutylene) and the calibration data is logged.

Procedure:

- 1) Prior to use in the field, the photoionization detector (PID) is to be calibrated in accordance to manufacturers specifications.
- 2) Place the sample in an eight or ten-ounce jar until the jar is approximately half-full. Place thick aluminum foil over the mouth of the jar to create an effective seal. Shake the sample jar for 15 seconds and let stand at temperatures above 50° F.
- 3) After 10 to 15 minutes of equilibration time, shake the sample jar a second time and position the container for sampling. Puncture the aluminum foil seal with the PID probe tip, making sure that the probe tip does not come in contact with the sample material.
- 4) Observe the instrument meter and record the highest reading. The meter reading will most often peak within five seconds and steadily decrease as ambient air is introduced into the medium. If erratic variation is noted in the meter reading, the sample will be retested. Weather conditions are to be noted in conjunction with the PID data.

Standard Operating Procedure: Monitoring Well Installation

Discussion:

Proper installation of monitoring wells is an essential element to an accurate hydrologic or site assessment investigation. Installation of monitoring wells typically consists of a 2 inch inside diameter (ID) Schedule 40 PVC well screen (0.1 inch slot size) and similar solid riser pipe. The screened interval is usually 10 feet in length and is centered at the apparent groundwater surface at the time of installation. One inch or four inch ID screen and riser may also be used depending on the constraints and objectives of the drilling program.

Procedure:

- 1) Upon completion of the test boring, the preassembled well screen and riser, with bottom plug siltation trap, is inserted into the borehole or more commonly, into the hollow stem auger or casing, as removing the auger flights can cause the surrounding formation to prematurely collapse on the well screen.
- 2) The well assembly is positioned at the desired depth and the annular space between the sidewall and well casing assembly is then backfilled with a clean, well sorted silica sand to a depth at least one foot above the well screen/riser connection. The screen and riser pipe is installed to be vertically plumb.
- 3) Once the sand filter pack is emplaced to the proper depth below grade (measured with tape), a divider seal, most commonly bentonite pellets, is inserted into to the annular space until a six-inch to 1-foot thick impermeable seal is formed around the casing.
- 4) The method for the backfilling the remainder of the annular space is determined by the qualified CONECO personnel. Typically, native material removed from the borehole having a PID reading below 10 ppm is then used to backfill the remaining annular space. Alternative backfill materials include concrete slurry or bentonite/water mixtures. The well riser is then fitted with a top plug and a locking protective casing or road box.
- 5) The protective casing or road box is securely cemented in place over the well. The cement seal is at a minimum one foot thick. If a road box is used, it is cemented flush with the pavement surface. If used, other protective casings should be grouted in place at least 0.5 feet above grade and identified with flagging.

Discussion:

Water standing in a well prior to development and sampling may not be representative of true groundwater quality in the aquifer. It is therefore necessary to first purge the well of all stagnant water so that a representative groundwater sample can be obtained. Depending upon the monitoring well construction and hydraulic characteristics of the aquifer, well development may be conducted by manual bailing or with a submersible pump. Bailing is most appropriate for low yield or deep wells, whereas a pump may be suitable for higher yield wells or where sampling within a discrete zone is necessary.

Procedure:

- 1) Using a clean groundwater sensor indicator determine the depth to the water table and determine the total depth of the well and record in the field logbook. Depth to groundwater should be measured from a specified reference point on the PVC riser pipe.

Then calculate the volume of standing water using the following equation:

$$v = \pi r^2 h \text{ where:}$$

$$v = \text{one well volume of water (generally converted to gallons)}$$

- for inches multiply by 4.33×10^{-3}
- for feet multiply by 7.48 to give gallons

$$\pi = 3.14$$

r = the radius of the well, measured as the inside diameter of the well divided by 2

h = the height of the water column in the well

Sample Calculation:

$$\text{Assume: } r = 2\text{-inch ID} = 0.16\text{-foot ID}$$

$$h = 1 \text{ foot}$$

$$v = 3.14 * (0.16 \text{ ft}/2)^2 * (1 \text{ foot}) * (7.48 \text{ gal}/\text{ft}^3)$$

$$v = 0.16 \text{ gal}$$

$$3v = 0.48 \text{ gal}$$

Therefore, as a rule of thumb, approximately 0.5 gallons of water must be purged from the well for each foot of water present in the monitoring well column.

- 2) Calculate the number of bailer volumes or the duration of pumping required to evacuate at least three well volumes.
- 3) Evacuate well water to a small bucket or vessel (<0.5 gallons) in which the pH and specific conductivity probes have been placed.
- 4) Purging should continue until pH, temperature, and specific conductivity values do not vary appreciably; a minimum of three well volumes have been removed; and a

Standard Operating Procedure: Monitoring Well Sampling (Cont'd)

stabilization in the silt content of the evacuated water has been achieved. Care should be taken so that the bailer line does not come in contact with the ground.

- 5) Record final pH, temperature, and specific conductivity values in field log book.
- 6) Prior to sampling, allow an equilibration period (minimum of 10 minutes).
- 7) Decontaminate all downhole purging equipment after use in one well using applicable standard operating procedures. If a disposable bailer or tubing is used, discard after one use. Discard the line used to support the bailer between wells.
- 8) A new pair of disposable gloves shall be worn for each individual well sampling.
- 9) Samples should be collected and containerized in order of decreasing sensitivity to volatilization.

The following order should be used in collection of samples:

VOCs
semi-VOCs
Petroleum Hydrocarbons
Metals
PCBs

- 10) Minimize agitation of sample during collection to prevent possible volatilization of components present in the sample.
- 11) Care must be taken to eliminate entry of or contact with any substance other than the water sample and the interior surface of the sampling container.
- 12) Samples submitted for VOC analysis should not contain any air bubbles.
- 13) Samples submitted for dissolved metals analysis should be filtered in the field, using CONECO's filtration and pump system. Acidification of the sample should not be performed until the sample has been properly filtered.
- 14) When full, sampling containers should be securely capped, wiped off, appropriately labeled, and refrigerated until their delivery to the laboratory.
- 15) Complete the chain of custody form.

Standard Operating Procedure: Geoprobe® Sampling In Overburden Materials

Discussion:

Test boring programs in unconsolidated overburden materials may be conducted using a variety of drilling techniques. While most borings associated with site assessment techniques are performed using a hollow-stem auger, a less expensive method of obtaining soil samples is using Geoprobe® equipment. The powerful aspect of this technique is the versatility and mobility of the equipment both on the interior and exterior of site buildings. Samples can be obtained at depths up to 100 feet in a variety of geological conditions and locations. A 1.5-inch inside diameter (ID) macro core sampler is driven through overburden deposits using a pneumatically or electrically operated hammer. Collected within this macro core is a continuous soil sample available for field screening or more detailed laboratory analysis.

Procedure:

- 1) All Geoprobe® activities are continuously inspected by a qualified CONECO geologist or engineer. The inspector is familiar with the selected sampling program and is responsible for QA/QC procedures. Boring logs and field notes, as well as procedural changes, are the responsibility of the inspector.
- 2) All Geoprobe® equipment is decontaminated prior to initial use and during activities at the site
- 3) The 4-foot long macro core sampler (2 inch ID) is prepared by inserting a PETG (acetate) liner inside the macro core. Depending on the desired sampling depths, 3-foot or 1-foot extension rods are then placed on the opposite end of the macro core. Acetate liners are replaced after each sampling run.
- 4) Beginning from the surface, the macro core sampler is driven through overburden materials using a pneumatically or electrically operated hammer. Once the core sampler has been driven through the desired depths, it is removed using an extractor jack. The PETG liner containing the soil sample is then removed from the macro core and emptied onto a clean surface.
- 5) Descriptions of the sample materials, stratigraphy, as well as sampling activities are recorded on the test boring log. Soil samples, when recovered, are placed in appropriate containers for PID screening and laboratory analysis, if required.
- 6) Any excess soil samples obtained during boring activities will remain on-Site. Those soils exhibiting PID levels of 10 ppm or greater will be segregated and either containerized or placed on and covered with 6-mil polyethylene.

**Immediate Response Action Transmittal Form (BWSC-105)
Response Action Outcome Transmittal Form (BWSC-104)
Copies of Municipal Notifications**



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105 *J.R.*

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 21892

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: Malone Park - Building No. 21
2. Street Address: 200 Trapelo Road
3. City/Town: Waltham 4. ZIP Code: 02452-6302
5. Check here if a Tier Classification Submittal has been provided to DEP for this Disposal Site.
 a. Tier 1A b. Tier 1B c. Tier 1C d. Tier 2
6. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. Specify Program (check one):
 a. CERCLA b. HSWA Corrective Action c. Solid Waste Management
 d. RCRA State Program (21C Facilities)

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial IRA Written Plan (if previously submitted): _____ (MM/DD/YYYY)
2. Submit an **Initial IRA Plan**.
3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.
4. Submit an **Imminent Hazard Evaluation** (check one)
 a. An Imminent Hazard exists in connection with this Release or Threat of Release.
 b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.
 c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
 d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.
5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.
6. Submit an **IRA Status Report**.
7. Submit an **IRA Completion Statement**.
a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN). When linking RTNs, rescoring via the NRS is required if there is a reasonable likelihood that the addition of the new RTN(s) would change the classification of the site.
 b. State Release Tracking Number of Tier Classified Site (Primary RTN): -

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JUL 03 2003
DEP
NORTHEAST REGIONAL OFFICE

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

8. Submit a **Revised IRA Completion Statement**.

(All sections of this transmittal form must be filled out unless otherwise noted above)





IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number
3 - **21892**

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:

1. Identify Media Impacted and Receptors Affected: (check all that apply)

- a. Air b. Basement c. Critical Exposure Pathway d. Groundwater e. Residence
 f. Paved Surface g. Private Well h. Public Water Supply i. School j. Sediments
 k. Soil l. Storm Drain m. Surface Water n. Unknown o. Wetland p. Zone 2
 q. Others Specify: _____

2. Identify Oils and Hazardous Materials Released: (check all that apply)

- a. Oils b. Chlorinated Solvents c. Heavy Metals
 d. Others Specify: Unknown volume of No. 2 fuel oil as indicated by elevated PID readings during UST closure activities

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

- | | |
|--|---|
| <input type="checkbox"/> 1. Assessment and/or Monitoring Only | <input type="checkbox"/> 2. Temporary Covers or Caps |
| <input type="checkbox"/> 3. Deployment of Absorbent or Containment Materials | <input type="checkbox"/> 4. Temporary Water Supplies |
| <input type="checkbox"/> 5. Structure Venting System | <input type="checkbox"/> 6. Temporary Evacuation or Relocation of Residents |
| <input type="checkbox"/> 7. Product or NAPL Recovery | <input type="checkbox"/> 8. Fencing and Sign Posting |
| <input type="checkbox"/> 9. Groundwater Treatment Systems | <input type="checkbox"/> 10. Soil Vapor Extraction |
| <input type="checkbox"/> 11. Bioremediation | <input type="checkbox"/> 12. Air Sparging |
| <input checked="" type="checkbox"/> 13. Excavation of Contaminated Soils | |

- a. Re-use, Recycling or Treatment i. On Site Estimated volume in cubic yards _____
 ii. Off Site Estimated volume in cubic yards 45

ii.a. Facility Name: ESMI, Incorporated Town: Louden State: NH

ii.b. Facility Name: _____ Town: _____ State: _____

iii. Describe: Thermal Processing

- b. Store i. On Site Estimated volume in cubic yards _____
 ii. Off Site Estimated volume in cubic yards _____

ii.a. Facility Name: _____ Town: _____ State: _____

ii.b. Facility Name: _____ Town: _____ State: _____





IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 21892

D. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply, for volumes list cumulative amounts)

c. Landfill

i. Cover Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

ii. Disposal Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

15. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

16. Other Response Actions:

Describe: _____

17. Use of Innovative Technologies:

Describe: _____





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 21892

E. LSP SIGNATURE AND STAMP :

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation complies(y) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Status Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a **request to Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

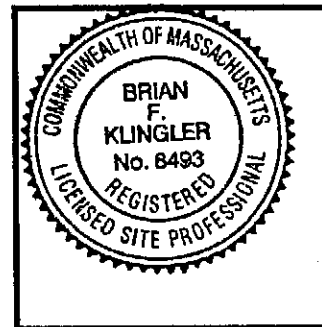
1. First Name: Brian 2. Last Name: Klingler

3. Telephone: (508) 697-3191 4. Ext.: _____ 5. FAX: (508) 697-5996

6. Signature:  7. Date: 06/27/2003

8. LSP #: 8493

9. LSP Stamp:





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - **21892**

F. PERSON UNDERTAKING IRA:

1. Check all that apply: a. change in contact name. b. change of address c. change in the person undertaking response actions
2. Name of Organization: Massachusetts Department of Mental Retardation
3. Contact First Name: David 4. Last Name: Chan
5. Street: 500 Harrison Avenue 6. Title: Project Engineer
7. City/Town: Boston 8. State: MA 9. ZIP Code: 02118-2439
10. Telephone: (617) 624-7881 11. Ext.: _____ 12. FAX: _____

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify: _____
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking IRA Specify Relationship: _____

H. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.
 A Release Abatement Measure (RAM) Plan (BWSC106) Phase IV Remedy Implementation Plan (BWSC108)
2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
5. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 21892

I. CERTIFICATION OF PERSON UNDERTAKING IRA:

David Chan

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: Project Engineer
Signature

4. For: Massachusetts Department of Mental Retardation 06/27/2003
(Name of person or entity recorded in Section F) (mm/dd/yyyy)

5. Check here if the address of the person providing certification is different from address recorded in Section F.

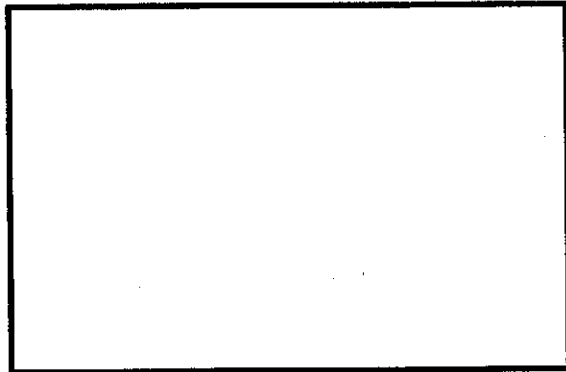
6. Street: _____

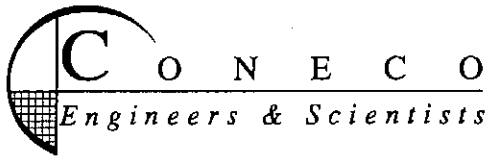
7. City/Town: _____ 8. State: _____ 9. ZIP Code: _____

10. Telephone: _____ 11. Ext.: _____ 12. FAX: _____

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)





CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

June 27, 2003
Project No. 4701

Mr. Walter Sweder
Director of Public Health
City of Waltham Health Department
119 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Massachusetts Department of Mental Retardation Fernald Center
Malone Park Building No. 21
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21892

Dear Director Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of the identification of a release of an unknown volume of No. 2 fuel oil from a former 500-gallon No. 2 fuel oil underground storage tank at Malone Park Building No. 21 of the Massachusetts Department of Mental Retardation Fernald Center in Waltham, Massachusetts. This letter follows notification to the Department of Environmental Protection - Northeast Regional Office (NERO) on June 27, 2002 and the submittal of a Response Action Outcome (RAO) Statement on June 27, 2003. The Site has been assigned Release Tracking Number (RTN) 3-21892. Copies of the RAO Statement are available for review at the DEP-NERO.

Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the above described release are required.

If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists

A handwritten signature in black ink, appearing to read 'Jedd S. Steinglass'.

Jedd S. Steinglass
Project Manager

A handwritten signature in black ink, appearing to read 'Brian F. Klingler'.

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

JSS:BFK:jd
jss-/4701.21.notification.doc



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

June 27, 2003
Project No. 4701

The Honorable Mayor David F. Gately
City of Waltham Mayor's Office
City Hall Second Floor
610 Main Street
Waltham, Massachusetts 02452

RE: **Public Involvement Notification**
Massachusetts Department of Mental Retardation Fernald Center
Malone Park Building No. 21
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21892

Dear Mayor Gately:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of the identification of a release of an unknown volume of No. 2 fuel oil from a former 500-gallon No. 2 fuel oil underground storage tank at Malone Park Building No. 21 of the Massachusetts Department of Mental Retardation Fernald Center in Waltham, Massachusetts. This letter follows notification to the Department of Environmental Protection - Northeast Regional Office (NERO) on June 27, 2002 and the submittal of a Response Action Outcome (RAO) Statement on June 27, 2003. The Site has been assigned Release Tracking Number (RTN) 3-21892. Copies of the RAO Statement are available for review at the DEP-NERO.

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If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists

A handwritten signature in black ink, appearing to read 'Jedd S. Steinglass'.

Jedd S. Steinglass
Project Manager

A handwritten signature in black ink, appearing to read 'Brian F. Klingler' with a small '21' written below it.

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

JSS:BFK:jd
jss-4701.21.notification.doc

EXHIBIT C-7

RTN 3-0013467, Power Plant Near Waverly Oaks Entrance

Site Information			
Site Number:	3-0013467	Category:	TWO HR
Site Name:	POWER PLANT NEAR WAVERLY OAKS ENTRANCE	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	3/21/2008
Town:	WALTHAM	Phase:	PHASE IV
Zipcode:	02154-0000	RAO class:	
Official notification date:	2/20/1996	Location type:	STATE
Initial status date:	2/20/1997	Source:	UST

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	TSAUD - Level 1 - Technical Screen Audit
Submittal Date:	1/9/2009
RAO class:	A3
Activity & Use Limitation:	NOTICE

Response Action Information	
Response Action Type:	AUL - Activity and Use Limitation
Status:	LEGNOT - Legal Notice Published
Submittal Date:	4/14/2008
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHSIII - Phase 3
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/28/2002
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	6/28/2002
RAO class:	C1
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	3/27/2000
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	CSRCVD - Completion Statement Received
Submittal Date:	8/4/1999
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	CSRCVD - Completion Statement Received
Submittal Date:	1/15/1999
RAO class:	
Activity & Use Limitation:	

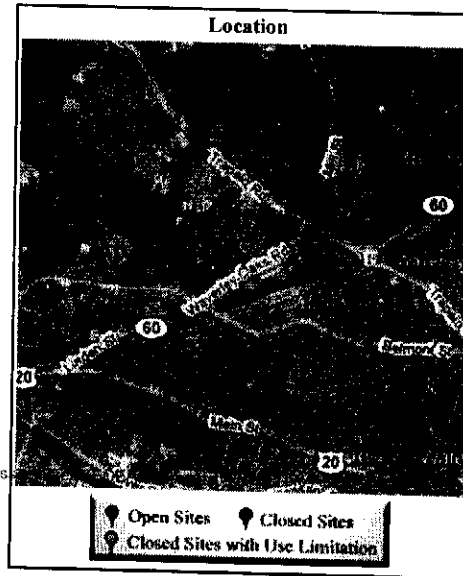
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	4/3/1997
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	TIERII - Tier 2 Classification
Submittal Date:	4/3/1997

Chemicals		
Chemical	Amount	Units
#6 FUEL OIL		

LSPs	
LSP#	Name
8493	KLINGLER, BRIAN F
9092	OBRIEN, JAMES B
N/A	OBRIEN, JAMES D

RAO Detail			
Class	Method	GW Category	Soil Category
A3	1	2	3
C1	1	1	2
A3	1	2	3
C1	1	1	2



Same as
3-10367



Same as
3-10367



RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	3/17/1997
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	6/21/1996
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	2/20/1996
RAO class:	
Activity & Use Limitation:	



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 13467

For sites with multiple RTNs, enter the Primary RTN above.

SITE LOCATION:

Site Name/Location Aid: **POWER PLANT NEAR WAVERLY OAKS ENTRANCE**

Street Address: **200 TRAPELO RD**

City/Town: **WALTHAM** 4. ZIP Code: **021540000**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
 a. Tier IA b. Tier IB c. Tier IC d. Tier II

If a Tier I Permit has been issued, provide Permit Number: _____

THIS FORM IS BEING USED TO: (check all that apply)

List Submittal Date of RAO Statement (if previously submitted): _____
mm/dd/yyyy

2. Submit a **Response Action Outcome (RAO) Statement**

a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.
b. Provide additional Release Tracking Number(s) covered by this RAO Statement. - -

3. Submit a **Revised Response Action Outcome Statement**

a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.
b. Provide additional Release Tracking Number(s) covered by this RAO Statement. - -

4. Submit a **Response Action Outcome Partial (RAO-P) Statement**

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only an RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statement.

Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21E s.2, and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:

a. Eligible Person b. Eligible Tenant

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5. Submit an optional **Phase I Completion Statement** supporting an RAO Statement

6. Submit a **Periodic Review Opinion** evaluating the status of a Temporary Solution for a Class C-1 RAO Statement, as specified in 310 CMR 40.1051 (Section F is optional)

DEP
NORTHEAST REGIONAL OFFICE

7. Submit a **Retraction** of a previously submitted **Response Action Outcome Statement** (Sections E & F are not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

3 - 13467

Pursuant to 310 CMR 40.1000 (Subpart J)

DESCRIPTION OF RESPONSE ACTIONS: (check all that apply; for volumes, list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Treatment of Water Supplies
- 5. Structure Venting System
- 6. Engineered Barrier
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Bioremediation
- 12. Air Sparging
- 13. Monitored Natural Attenuation
- 14. In-situ Chemical Oxidation

15. Removal of Contaminated Soils

- a. Re-use, Recycling or Treatment
 - i. On Site Estimated volume in cubic yards _____
 - ii. Off Site Estimated volume in cubic yards _____

ii. Facility Name: _____ Town: _____ State: _____

ii. Facility Name: _____ Town: _____ State: _____

iii. Describe: _____

b. Landfill

- i. Cover Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

- ii. Disposal Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

16. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

17. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

-

Pursuant to 310 CMR 40.1000 (Subpart J)

DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply; for volumes, list cumulative amounts)

18. Other Response Actions:

Describe: _____

19. Use of Innovative Technologies:

Describe: _____

SITE USE:

Are the response actions that are the subject of this submittal associated with the *redevelopment, reuse* or the *major expansion of the current use* of property(ies) impacted by the presence of oil and/or hazardous materials?

a. Yes b. No c. Don't know

Is the property a *vacant or under-utilized commercial or industrial* property ("a brownfield property")?

a. Yes b. No c. Don't know

Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

a. Yes b. No c. Don't know If Yes, identify program(s): _____

Has a Covenant Not to Sue been obtained or sought?

a. Yes b. No c. Don't know

Check all applicable categories that apply to the person making this submittal: a. Redevelopment Agency or Authority

b. Community Development Corporation c. Economic Development and Industrial Corporation

d. Private Developer e. Fiduciary f. Secured Lender g. Municipality

h. Potential Buyer (non-owner) i. Other, describe: _____

This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.

RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release. Select **ONLY** one Class.

1. **Class A-1 RAO:** Specify one of the following:

a. Contamination has been reduced to background levels. b. A Threat of Release has been eliminated.

2. **Class A-2 RAO:** You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

3. **Class A-3 RAO:** You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

4. **Class A-4 RAO:** You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an Engineered Barrier is infeasible. If the Permanent Solution relies upon an Engineered Barrier, you must provide or have previously provided a Phase III Remedial Action Plan that justifies the selection of the Engineered Barrier.



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

3 - 13467

Pursuant to 310 CMR 40.1000 (Subpart J)

RESPONSE ACTION OUTCOME CLASS (cont.):

5. Class B-1 RAO: Specify one of the following:

- a. Contamination is consistent with background levels
- b. Contamination is NOT consistent with background levels.

6. Class B-2 RAO: You MUST provide an implemented AUL.

7. Class B-3 RAO: You MUST provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.

8. Class C-1 RAO: You must submit a plan as specified at 310 CMR 40.0861(2)(h). Indicate type of ongoing response actions.

- a. Active Remedial System
- b. Active Remedial Monitoring Program
- c. None
- d. Other Specify: _____

9. Class C-2 RAO: You must hold a valid Tier I Permit or Tier II Classification to continue response actions toward a Permanent Solution.

RESPONSE ACTION OUTCOME INFORMATION:

Specify the Risk Characterization Method(s) used to achieve the RAO described above:

- a. Method 1
- b. Method 2
- c. Method 3
- d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated

Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all APPLICABLE categories:

- a. S-1/GW-1
- b. S-1/GW-2
- c. S-1/GW-3
- d. S-2/GW-1
- e. S-2/GW-2
- f. S-2/GW-3
- g. S-3/GW-1
- h. S-3/GW-2
- i. S-3/GW-3

Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off IMPACTED categories:

- a. GW-1
- b. GW-2
- c. GW-3
- d. No Groundwater Impacted

Specify remediation conducted:

- a. Check here if soil remediation was conducted.
- b. Check here if groundwater remediation was conducted.

Specify whether the analytical data used to support the Response Action Outcome was generated pursuant to the Department's Appendix of Analytical Methods (CAM) and 310 CMR 40.1056:

- a. CAM used to support all analytical data.
- b. CAM used to support some of the analytical data.
- c. CAM not used.

6. Check here to certify that the Class A, B or C Response Action Outcome includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.

Estimate the number of acres this RAO Statement applies to:

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

3 - 13467

Pursuant to 310 CMR 40.1000 (Subpart J)



LSP SIGNATURE AND STAMP:

I test under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

If Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

LSP #: 8493

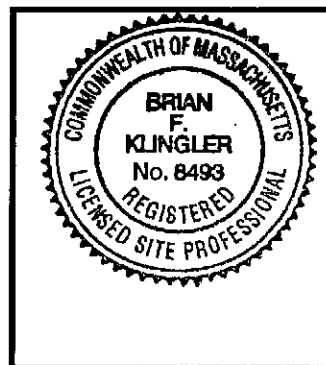
First Name: BRIAN F 3. Last Name: KLINGLER

Telephone: 5086973191 5. Ext.: 6. FAX:

Signature:

Date: 3-13-08
mm/dd/yyyy

9. LSP Stamp:



PERSON MAKING SUBMITTAL:

Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions

Name of Organization: COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF MENTAL RETARDATION

Contact First Name: ELIN M 4. Last Name: HOWE

Street: 500 HARRISON AVENUE 6. Title: COMMISSIONER

City/Town: BOSTON 8. State: MA 9. ZIP Code: 02118-0000

Telephone: 617-727-5608 11. Ext.: 12. FAX: 617-624-7577



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

Pursuant to 310 CMR 40.1000 (Subpart J)

-

RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

- 1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify:
- 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- 4. Any Other Person Making Submittal Specify Relationship:

REQUIRED ATTACHMENT AND SUBMITTALS:

- 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.
- 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.
- 4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.
- 5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)
 - a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.
 - b. Notice was provided prior to, or concurrent with the submittal of this RAO Statement to the Department.
 - c. Notice not required. d. Total number of property owners notified, if applicable: _____
- 6. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)
 - a. Notice of Activity and Use Limitation b. Number of Notices submitted: _____
 - c. Grant of Environmental Restriction d. Number of Grants submitted: _____
- 7. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.
- 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
- 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

Pursuant to 310 CMR 40.1000 (Subpart J)

3 - 13467

CERTIFICATION OF PERSON MAKING SUBMITTAL:

ELIN M. HOWE, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Elin M. Howe
Signature

3. Title: **COMMISSIONER**

For: **COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF M**
(Name of person or entity recorded in Section H)

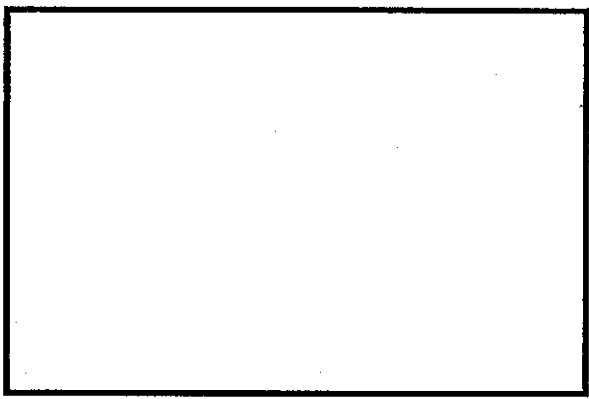
5. Date: 03/11/2008
mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section H.

Street: _____
City/Town: _____ 9. State: _____ 10. ZIP Code: _____
Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)



RECEIVED

MAR 21 2008

DEP
NORTHEAST REGIONAL OFFICE

U/A

CLASS A-3 RESPONSE ACTION OUTCOME STATEMENT

THE FERNALD CENTER - POWER PLANT

200 TRAPELO ROAD

WALTHAM, MASSACHUSETTS

RELEASE TRACKING NUMBER 3-13467

3-16367

SUBMITTED TO:

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

ON BEHALF OF:

Mr. Paul Beaton, P.E.
Project Engineer
Massachusetts Department of Mental Retardation
500 Harrison Avenue
Boston, Massachusetts 02118

PREPARED BY:

Coneco Engineers & Scientists, Incorporated
4 First Street
Bridgewater, Massachusetts 02324
(508) 697-3191

March 19, 2008
Coneco Project No. 4953



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

March 19, 2008
Coneco Project No. 4953

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

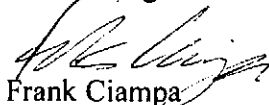
RE: Class A-3 Response Action Outcome Statement
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467


To Whom It May Concern:

On behalf of the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation (DMR), Coneco Engineers and Scientists, Incorporated (Coneco) has prepared the following Class A-3 Response Action Outcome (RAO) Statement and Activity and Use Limitation (AUL) for The Fernald Center Power Plant located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." Coneco has evaluated environmental conditions at the Site within the scope and meaning of the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act, Chapter 21E of the Massachusetts General Laws and the "Massachusetts Contingency Plan" (MCP) 310 CMR 40.0000.

Coneco's investigation is detailed in the attached report. If there are any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists, Incorporated


Frank Ciampa
Environmental Scientist


Brian F. Klingler, P.G., L.S.P.
Principal Geologist

MMP:FJC:JSS:BFK:jd
Z://4953.walthamAUL.RAO.doc

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Appendix 2 Test Boring Logs
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Appendix 4 Groundwater Analytical Results Summary
Appendix 5 Registry of Deeds-Certified Copy of Activity and Use Limitation and Legal Notice
Appendix 6 AUL Transmittal Form (BWSC-113) and AUL Opinion Form (BWSC-113A)
Appendix 7 RAO Transmittal Form (BWSC - 104) and Copies of Municipal and Public
Notification Letters

1.0 INTRODUCTION

Environmental conditions at The Fernald Center Power Plant located in Waltham, Massachusetts, were evaluated in a manner consistent with the guidelines presented in the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000. This investigation was intended to describe current Site conditions and to establish whether a condition of "No Significant Risk" exists for current and/or future uses of the Site. To accomplish these goals, Coneco performed the following tasks:

1. A Site-specific Health and Safety Plan was prepared and implemented for Coneco on-Site investigatory personnel.
2. A Site survey was conducted by Coneco personnel to locate on-Site monitoring wells, obtain monitoring well elevations, and locate pertinent Site features.
3. Coneco performed a series of quarterly groundwater sampling events at the Site beginning August 1, 2003. Groundwater samples were collected on a quarterly basis from viable on-Site monitoring wells and were submitted to Spectrum Analytical, Incorporated (Spectrum), an independent Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for analysis of extractable petroleum hydrocarbons (EPH) by the Department of Environmental Protection (DEP) Method.
4. Coneco conducted additional subsurface investigation activities on May 17, 2007 to further define the boundaries of the Disposal Site. Activities included the advancement of two Geoprobe[®] soil test borings and the installation of two groundwater monitoring wells to delineate the horizontal extent of the Disposal Site. Soil samples collected from these test borings were submitted to Spectrum for laboratory analysis of EPH by the DEP Method.
5. A Stage I Environmental Screening was conducted by Coneco to characterize potential exposure to Site biota and habitats in relation to this release.
6. As determined by the above investigations, the conditions of the Site were evaluated within the scope and meaning of the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act, Chapter 21E of the Massachusetts General Laws, and the MCP 310 CMR 40.0000.

2.0 SITE OVERVIEW

2.1 Background and Previous Work

Prior to the initiation of sampling activities, Coneco reviewed a June 25, 2002 Phase III - Remedial Action Plan and Class C Response Action Outcome (RAO) report prepared for the Site by Vertex Engineering Services, Incorporated (Vertex) of Weymouth, Massachusetts. According to Vertex, three No. 6 fuel oil underground storage tanks (USTs) were installed at the Site in 1954, with

volumes ranging from 23,000 to 28,000 gallons. As reported by Vertex, a release from these USTs occurred at the Site in 1993, which was assigned Release Tracking Number (RTN) 3-10367. As described in the Vertex report, approximately 150 to 300 gallons of No. 6 fuel oil was released into a stream adjacent to the Site on December 29, 1993 due to the failure of one of the USTs at the Site. Immediate Response Action (IRA) activities consisting of assessment and remediation of the stream were reportedly implemented in 1993 under RTN 3-10367. According to the Vertex report, an IRA Completion Statement was submitted to the DEP in 1994 and a Phase I Site Investigation was prepared for the Disposal Site in 1995 by Lord Associates. In addition, a Tier II Classification and Numerical Ranking System (NRS) Scoresheet were reportedly submitted to the DEP in 1995. According to the Scoresheet, the Disposal Site received a score of 270 points.

Vertex reported that a second release was identified in association with the USTs at the Site on February 20, 1996. This release was reportedly identified through the observation of No. 6 fuel oil in the vicinity of a concrete retaining wall located between the three No. 6 fuel oil USTs at the Site. As indicated by Vertex, this second UST release also impacted the adjacent stream. This second release was assigned RTN 3-13467. IRA activities reportedly included the deployment of oil absorbent pads and booms at the base of the retaining wall and in the adjacent stream. No. 6 fuel oil was also reportedly noted in pipe trenches for the USTs. An IRA Plan consisting of the removal of the USTs was submitted in April of 1996. The replacement of the three USTs at the Site reportedly occurred between July and December 1996. Approximately 1,000 cubic yards of No. 6 fuel oil-impacted soil and 15,000 gallons of impacted groundwater were reportedly removed from the Site during IRA activities.

Vertex submitted a Phase II - Comprehensive Site Assessment (CSA) report for the Disposal Site in August of 1998. As described in this report, Vertex identified a layer of non-aqueous phase No. 6 fuel oil which was greater than 0.5 inches in thickness in two monitoring wells located within the basement of the Power Plant building. According to Vertex, no evidence of separate phase product was noted in the remaining wells at the Site. Laboratory analysis of groundwater samples collected from the remaining wells reportedly identified no detectible concentrations of EPH. Additionally, Vertex determined that groundwater at the Site flows in a southwesterly direction. Vertex concluded in the Phase II report that a condition of "No Significant Risk" did not exist at the Site due to the presence of separate phase product measuring greater than 0.5 inches in monitoring wells at the Site. Vertex also concluded that the separate phase product is confined to a localized area beneath the concrete floor of the Power Plant building.

According to the June 25, 2002 Phase III - Remedial Action Plan prepared by Vertex, separate phase product identified in monitoring wells at the Site remained at a thickness greater than 0.5 inches as of March 2002. Vertex recommended quarterly groundwater monitoring and product removal as the remedial action alternative for the Site. According to Vertex, conditions at the Site met the requirements for the submittal of a Class C RAO as the completed remedial actions had eliminated substantial hazards at the Site. Vertex stated that due to the presence of greater than 0.5 inches of non-aqueous phase No. 6 fuel oil, a condition of "No Significant Risk" did not exist for the Disposal Site although a temporary solution had been achieved.

2.2 Site Parameters

The party conducting response actions at the Disposal Site and Potentially Responsible Party (PRP) is the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation (DMR). The contact information follows:

Commonwealth of Massachusetts, Executive Office of Health and Human
Services, Department of Mental Retardation
Mr. Paul Beaton, P.E.
Project Engineer
500 Harrison Avenue
Boston, Massachusetts 02118

Disposal Site Limits:

For the purposes of this investigation, the Disposal Site is defined as the approximately 18,000 square-foot area encompassing the location of the former USTs and identified impacted soil and groundwater at Fernald Center Power Plant in Waltham, Massachusetts. The Disposal Site location and limits are depicted in Figure 1 and Figure 2, respectively.

Coordinates:

Latitude 42° 22' 55" N
UTM 4,695,066 Meters N

Longitude 71° 12' 42" W
318,192 Meters E (Zone 19)

Ownership:

The Waltham Assessors' Office lists the owner of the Site as the Commonwealth of Massachusetts.

Structures:

The Power Plant building is one to two stories in height, constructed of concrete, brick, and metal, and was reportedly erected in the 1930s. A brick smokestack is located on the western side of the building. A number of subsurface structures are located throughout the Site, including steam, water, stormwater drainage, and electric utilities.

Occupancy & Use:

The Site building is used as the main steam generation plant providing heat for buildings throughout The Fernald Center.

Utilities:

The Site is serviced by underground water, sewer, electric, and telephone lines.

Vegetation:

Vegetation at the Disposal Site consists of grass, shrubs, and trees in portions of the Site to the south and east of the Site building. No additional vegetation was located within the limits of the Disposal Site.

Adjacent Properties:

The Disposal Site is located entirely within the limits of the Fernald Center, a DMR residential and school facility. Properties surrounding the Fernald Center are residential and commercial in nature.

3.0 SUBSURFACE INVESTIGATION

Coneco provided oversight for subsurface investigation activities to further delineate the extent of the Disposal Site. These activities included the evaluation of environmental media to confirm the presence or absence of suspected oil and/or hazardous materials within soil and groundwater.

3.1 Geoprobe® Test Borings and Groundwater Monitoring Well Installation

Geoprobe® test borings were advanced at the Site on May 17, 2007 by New England Geotech (NEG) of Jamestown, Rhode Island. Test boring activities were overseen by Coneco personnel. Test boring locations at the Site were selected on the basis of Site history, previous environmental data, and Site structures and utility line locations. Test borings were performed at two locations and were advanced to depths ranging from 10 to 20 feet below grade utilizing a truck-mounted Geoprobe® sampling system. Soil samples were collected in 2-foot intervals continuously in all test borings. The standard operating procedures for overburden test borings are included in Appendix 1.

Following the advancement of the Geoprobe® soil borings, ground water monitoring wells were installed by NEG. The monitoring wells were constructed of 2-inch ID, schedule 40, No. 10 slotted PVC well screen from the base of the well to depths ranging from approximately 0 to 9 feet below grade, with solid PVC riser pipe from the top of the slotted screen to grade. A discussion of the monitoring well installation procedure is included in Appendix 1. Monitoring wells were installed in accordance with the Massachusetts DEP *Standard References for Monitoring Wells - Small Diameter Driven Well Supplement* (BWSC-Policy 310-91). The locations of test borings and groundwater monitoring wells, underground utilities, the former USTs, and other relevant Site features can be referenced in Figure 2. Test boring and groundwater monitoring well locations are described as follows:

GP-01/CMW-1: Test boring GP-01 and monitoring well CMW-1 were advanced directly adjacent to the southern portion of the Site building. This location was selected to provide subsurface information at the boring location and to adequately delineate the horizontal extent of the Disposal Site in the southerly direction. GP-01 was advanced to a depth of approximately 10 feet below grade. Groundwater was encountered at a depth of approximately 5 feet below grade.

GP-02/CMW-2: Test boring GP-02 and monitoring well CMW-2 were advanced directly adjacent to the eastern portion of the Site building. This location was selected to provide subsurface information at the boring location and determine the horizontal extent of the Disposal Site in the easterly direction. GP-02 was advanced to a depth of approximately 20 feet below grade. Groundwater was encountered at a depth of approximately 12 feet below grade at this location.

Complete test boring logs can be referenced in Appendix 2. From grade to the bottom of the borings, soil units encountered are described as follows:

-
- Fill material consisting of a poorly sorted, dark brown to tan gravelly silty sand was encountered to a depth of approximately 15 feet below grade.
 - Till composed of coarse sand, sub-angular gravel, and tan to reddish brown veins of iron rich material was encountered between 15 and 20 feet below grade.

Groundwater was encountered between 5 and 12 feet below grade in the test borings. Bedrock was not encountered during test boring activities. No visual or olfactory evidence of a release of oil or hazardous materials was encountered in any test boring.

3.2 Geoprobe® Field Screening

Representative soil samples collected from GP-01 and GP-02 were placed in clean, tightly sealed glass jars with aluminum foil cover liners for in-field screening using a RAE Systems MiniRAE 2000 photo ionization detector (PID), calibrated to an isobutylene standard. Headspace procedures were performed in accordance with DEP Policy WSC 94-400. A discussion of this procedure and standard operating protocol is included in Appendix 1. Headspace readings for soil samples collected from the Site were below the instrument detection limit of 0.1 parts per million (ppm). No staining, odors, or other evidence of a release were noted in any of the soil samples collected.

3.3 Geoprobe® Soil Sampling

On May 17, 2007, following PID screening, select soil samples were placed in 8-ounce amber glass jars, cooled to 4 degrees Celsius, and submitted to Spectrum for analysis of EPH by the DEP Method. Soil samples from the test borings with an approximate depth corresponding to the groundwater vadose zone were chosen for laboratory analysis. Soil samples were labeled based on the test boring identification, sample number, and depth collected.

3.4 Site Survey/Gauging of Groundwater Levels

A Site survey was conducted by Coneco personnel on May 24, 2007 to locate on-Site monitoring wells, obtain monitoring well elevations, and locate pertinent Site features. A reference elevation for each monitoring well was established at a specific point on the top of the PVC well casing. An arbitrary elevation of 100.00 feet was assigned to the northeastern corner of the entrance to the Power Plant building, as shown on Figure 2. Observations regarding the presence of non-aqueous phase liquid (NAPL) and the depth to groundwater measurements were made at each viable on-Site groundwater monitoring well to the nearest 0.01 foot by Coneco personnel. The depths to groundwater and product thickness were measured using a Heron Instruments Oil/Water Interface Meter from the reference point located at the top of the PVC pipe. The pH, temperature, and specific conductivity of groundwater in each well were also measured utilizing an Oakton temperature, pH, and conductivity meter. A discussion of these procedures and standard operating protocol is included for reference as Appendix 1. The tabulated data for the surveyed wells and a summary of groundwater screening results is provided in Table 1.

Table 1 - Monitoring Well Data: May 24, 2007

Monitoring Well	PVC Elevation	Screen Interval	Depth to Water ⁽¹⁾	Groundwater Elevation ⁽¹⁾	NAPL Thickness	Temperature (°C)	Conductivity (microhohms @ 25°C)	pH
MW-1	110.45'	7-17'	8.58'	101.87'	NM ⁽²⁾	7.9	405	6.9
MW-2	100.02'	2-12'	2.96'	97.06'	NM	8.6	375	8.5
MW-3	98.22'	2-10'	1.2'	97.02'	NM	14.5	452	7.5
MW-4	99.56'	2-10'	4.54'	95.02'	NM	11.6	569	6.9
MW-B1	99.75'	2-7'	1.45'	98.3'	NM	10.9	372	7.6
MW-B2	99.83'	4-7'	0.8'	99.03'	NM	10.9	385	7.6
MW-B3	99.87'	0.5-6'	0.0'	99.87'	NM	11.7	397	7.6
CMW-1	99.72'	0-10'	4.81'	94.91'	NM	16.8	621	6.70
CMW-2	110.69'	9-19'	10.40'	100.29'	NM	13.7	294	7.26

Notes: 1) Depths measured from the top of the PVC pipe.

2) NM indicates NAPL was not present at a measurable thickness in the respectible monitoring well.

Groundwater surface elevation contours were computer-generated using Golden Software[®], Incorporated Surfer version 7.0, and are provided for reference as Figure 3. Data from all nine viable wells and information from a Phase II - CSA report for the Disposal Site completed by Vertex in August of 1998 shows groundwater flowing in a southwesterly direction.

The temperatures and conductivity measured in all monitoring wells were consistent with values for normal ranges of these parameters in New England groundwater. (Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, U.S. Geological Survey, Water-Supply Paper 2254, 1985).

3.5 Quarterly Groundwater Monitoring

To assess groundwater conditions at the Site, Coneco personnel collected groundwater samples from viable monitoring wells, MW-1 through MW-4, and MW-B1 through MW-B3, on a quarterly basis between August 2003 and May 2007. Observations regarding the presence of NAPL and the depth to groundwater measurements were made by Coneco personnel at each viable on-Site groundwater monitoring well. The depths to groundwater and NAPL thickness were measured using a Heron Instruments Oil/Water Interface Meter from the reference point located at the top of the PVC pipe. A summary of Coneco's field observations is presented below in Table 2.

Table 2 - Summary of NAPL Thickness

Date	MW-1	MW-2	MW-3	MW-4	MW-B1	MW-B2	MW-B3	CMW-1	CMW-2
8/1/2003	NM ⁽¹⁾	NM	NM	NM	P ⁽²⁾	P	NM	NA ⁽³⁾	NA
11/11/2003	NM	NM	NM	NM	NM	P	NM	NA	NA
2/10/2004	NM	NM	NM	NM	NM	P	NM	NA	NA
5/4/2004	NM	NM	NM	NM	NM	P	NM	NA	NA
1/7/2005	NM	NM	NM	NM	NM	P	NM	NA	NA
5/20/2005	NM	NM	NM	NM	NM	NM	NM	NA	NA
10/6/2005	NM	NM	NM	NM	NM	0.63"	NM	NA	NA
1/20/2006	NM	NM	NM	NM	NM	NM	NT ⁽⁴⁾	NA	NA
3/31/2006	NM	NM	NM	NM	NM	NM	NM	NA	NA
9/5/2006	NM	NM	NM	NM	NM	NM	NM	NA	NA
5/24/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM

- Notes:
- 1) NM indicates NAPL thickness was not measured above 0.1 inches in the respective monitoring well.
 - 2) P indicates product was measured greater than 0.1 inches but less than 0.5 inches
 - 3) NA indicates NAPL was not measured because well had not yet been installed.
 - 4) NT indicates NAPL was not measured because the well was inaccessible.

Based on observations conducted between January 20, 2006 and May 24, 2007, no measurable thickness of NAPL was identified in any on-Site groundwater monitoring well.

3.6 Groundwater Sampling: May 24, 2007

Coneco personnel collected groundwater samples from the nine viable monitoring wells on May 24, 2007. Groundwater samples were collected in accordance with the Massachusetts DEP Standard Reference for Monitoring Wells (BWSC Policy #310-91 and SDDW Supplement). The standard operating procedures for the development and sampling of monitoring wells are included in Appendix 1.

A slight petroleum sheen and odor were noted in groundwater samples collected from MW-B1 and MW-B2. No sheen or odors were noted in association with groundwater samples collected from MW-1 through MW-4, MW-B3, and CMW-1 through CMW-2. The groundwater samples were contained within 1-liter amber glass jars preserved with hydrochloric acid (HCl) and cooled to 4 degrees Celsius. The groundwater samples were submitted to Spectrum for analysis of EPH by the DEP Method.

4.0 ANALYTICAL RESULTS

4.1 Soil Analytical Results - Geoprobe® Test Borings

Soil samples designated GP-01/S2(3-5') and GP-02/S6(13-15') were submitted to Spectrum on May 18, 2007 for analysis of EPH by the DEP Method. As a result of laboratory analysis, no concentrations of EPH were identified in excess of the method detection limits. A summary of the laboratory quantification limits for EPH carbon fraction range hydrocarbons and the applicable DEP Method 1 Risk Characterization Standards is presented below in Table 3. Original laboratory data, laboratory Quality Assurance/Quality Control (QA/QC), methods, and the chain-of-custody forms are included as Appendix 3.

Table 3 - Soil Analytical Results: May 17, 2007

Analyte	GP-01/S2 ⁽¹⁾ (3-5)	GP-02/S6 (13-15)	DEP Method 1 S-1 GW-2/3 Risk Characterization Standard ⁽²⁾	DEP Method 1 S-3 GW-2/3 Risk Characterization Standard
C ₉ -C ₁₈ Aliphatic Hydrocarbons	< 40.0 ⁽³⁾	< 30.4	1,000	5,000
C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	< 40.0	< 30.4	3,000	5,000
C ₁₁ -C ₂₂ Aromatic Hydrocarbons	< 40.0	< 30.4	1,000	5,000

Notes: 1) Sample identification and depth collected (feet).
2) DEP Method 1 Risk Characterization Standards are listed in 310 CMR 40.0975 and derived in Section 5.1.
3) Lab detection limits and applicable Method 1 standards are presented in mg/kg.

4.2 Groundwater Analytical Results

Procedures, analytical results, and additional data collected from sampling rounds between August 1, 2003 and September 5, 2006 was presented in previously submitted Post-RAO Quarterly Groundwater Monitoring Reports and summarized in Appendix 4. Groundwater samples collected on May 24, 2007 from groundwater monitoring wells MW-1 through MW-4, MW-B1 through MW-B3, and CMW-1 through CMW-2 were analyzed for EPH by the DEP Method. As a result of laboratory analysis, no concentrations of EPH were identified in excess of the method detection limits. A summary of the laboratory quantification limits for EPH carbon fraction range hydrocarbons and the applicable DEP Method 1 Risk Characterization Standards is presented below in Table 4. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 3.

Table 4 - Groundwater Analytical Results: May 24, 2007

Monitoring Well	C ₉ -C ₁₈ Aliphatic Hydrocarbons	C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	C ₁₁ -C ₂₂ Aromatic Hydrocarbons
MW-1	< 200 ⁽¹⁾	< 200	< 200
MW-2	< 200	< 200	< 200
MW-3	< 200	< 200	< 200
MW-4	< 200	< 200	< 200
MW-B1	< 200	< 200	< 200
MW-B2	< 200	< 200	< 200
MW-B3	< 200	< 200	< 200
CMW-1	< 200	< 200	< 200
CMW-2	< 200	< 200	< 200
<i>DEP Method 1 GW-2 Risk Characterization Standards⁽²⁾</i>	<i>5,000</i>	<i>NA⁽³⁾</i>	<i>50,000</i>
<i>DEP Method 1 GW-3 Risk Characterization Standards</i>	<i>50,000</i>	<i>50,000</i>	<i>5,000</i>

Notes: 1) Analytical results and Method 1 Risk Characterization Standards are presented in µg/l.
2) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.2.
3) NA denotes no standards have been promulgated.

5.0 METHOD 1 RISK CHARACTERIZATION

Under the MCP (310 CMR 40.0000), once a property has been designated as a Disposal Site, a risk assessment is necessary to demonstrate that a condition of “No Significant Risk” to health, safety, public welfare, and the environment exists at the Disposal Site. Otherwise, further remedial actions are required to achieve a condition of “No Significant Risk.”

To determine whether further action is required at the Site, it is first necessary to determine whether a condition of “No Significant Risk” exists using MCP Risk Characterization procedures. A Method 1 Risk Characterization uses a published list of contaminants, and provides risk characterization standards for these contaminants of concern. The following sections present the classifications of soil and groundwater for an MCP Method 1 Risk Characterization, and the applicable threshold concentrations for the contaminants present at the Site.

The basis for the Method 1 Risk Characterization is the Conceptual Site Model (CSM), included as a stem and leaf diagram in Figure 4. The CSM documents known or potential sources of contamination, affected media, known or potential routes of migration, and known or potential human and environmental receptors.

5.1 Soil Categories

The classifications for soil are listed at 310 CMR 40.0933. Soil at a given site is classified as S-1, S-2, or S-3, based upon exposure potential. Frequency of use by adults and children, the intensity of the use of the Site, and the accessibility of the soil are considered in the classification of soil. Frequency of use is classified as “high, low, or not present.” Intensity is classified as “high or low,” and soil accessibility is described as “accessible, potentially accessible, or isolated.” These criteria are as follows:

Frequency of Use: Children are conservatively present at the Site at “low” frequency. This Site consists of a steam generation facility where, if present, children would be infrequent visitors.

Intensity of Use: Intensity of use is considered “low,” as normal Site activities, such as walking, do not have the potential to disturb soil.

Accessibility: Impacted soil at the Disposal Site is located from approximately 12 to 15 feet below grade in paved and unpaved areas and is therefore considered “potentially accessible.” All soil greater than 15 feet below grade, as well as soil below the footprint of the Site building, is considered “isolated.”

Using these parameters, soil at the Disposal Site is classified as Category S-3.

5.2 Groundwater Categories

The classifications for groundwater are listed at 310 CMR 40.0932. Groundwater at all locations is classified as category GW-3, based upon its potential to discharge to surface water. Groundwater can also be classified as GW-1 based upon potential to be used as drinking water supply, and as GW-2 based upon the potential for inhalation of vapors of oil or hazardous materials in indoor air. The groundwater classification evaluation for the Disposal Site is based upon a Massachusetts Geographic Information Systems (MassGIS) DEP Site Scoring Map and information available from the Waltham Health Department, and is shown in Table 5. The DEP Site Scoring Map is available for reference as Figure 5.

Table 5 - GW-1/GW-2 Groundwater Classification Criteria

GW-1 Criteria	GW-1 Classification
1) within the Zone II for a public water supply	No
2) within an Interim Wellhead Protection Area	No
3) within a Potentially Productive Aquifer	No
4) within the Zone A of a Class A surface water body used as a public water supply	No
5) at any point located 500 or more feet from a public water supply distribution pipeline,...	No
6) at any groundwater sampling point located within 500 feet of a private water supply well	No
GW-2 Criteria	GW-2 Classification
1) Located within 30 feet of an occupied building and average annual depth to water is less than 15 feet	Yes

Under these criteria, groundwater at the Disposal Site is not subject to the GW-1 classification. Groundwater elevations, as determined during the May 24, 2007 groundwater sampling round, ranged from grade to approximately 10 feet below grade adjacent to the Power Plant building. As such, groundwater within 30 feet of the Power Plant building is subject to the GW-2 classification. In addition, all groundwater at the Site is subject to the GW-3 classification based upon its potential to discharge to surface water.

5.3 Method 1 Risk Characterization - Soil

Using the groundwater and soil classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in soil at the Site are listed in the MCP, 310 CMR 40.0975(6)(c). The most stringent concentration from each soil and groundwater classification is considered to be the threshold under which a condition of "No Significant Risk" exists.

The concentration of oil or hazardous material in a specific medium which a human or environmental receptor may contact at the Site is defined as the "Exposure Point Concentration" (EPC). Under the provisions of the MCP 310 CMR 40.0924(2)(a)(2) and 310 CMR 40.0926(3)(b), the arithmetic average of Site data is acceptable as EPC. In this case, the current EPCs were calculated using data from soil samples collected in proximity to the area impacted by the releases of No. 6 fuel oil. Analytical results of soil samples collected by Vertex at the conclusion of IRA excavation activities conducted between October 29, 1996 and November 1, 1996; by Vertex during the advancement of test borings on February 3, 1997; and by Coneco during the advancement of test borings on May 17, 2007 were used to calculate the current EPCs. For EPH carbon fraction ranges detected within the limits of the Site, the EPCs have been defined as the highest concentration of the respective EPH carbon fraction ranges detected within the confirmatory soil samples. In soil samples from which the specific fractionation ranges were not detected above the laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC.

In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of “No Significant Risk” exists for concentrations of oil and/or hazardous materials which have been reduced to “Background.” As no concentrations of polycyclic aromatic hydrocarbons (PAHs) or C₁₁-C₂₂ Aromatic Hydrocarbons were identified in soil samples collected from the Site, these analytes were excluded from this Method 1 Risk Characterization. Soil analytical results, calculated EPCs, and the applicable Method 1 Risk Characterization Standards are presented below in Table 6.

Table 6 - Soil Exposure Point Concentrations

Sample ID (depth)	Date Collected	C ₉ -C ₁₀ Aliphatic Hydrocarbon EPC	C ₁₅ -C ₁₆ Aliphatic Hydrocarbon EPC	C ₁₁ -C ₂₂ Aromatic Hydrocarbon EPC
Sidewall-West (12')	10/29/1996	170 ⁽¹⁾	380	NT ⁽²⁾
Sidewall-East (12')	10/29/1996	96	480	NT
Sidewall-North (12')	10/28/1996	10,000	15,000	NT
Bottom #1 (17')	10/28/1996	1,900	4,500	NT
Bottom #2 (17')	10/29/1996	730	1,200	NT
Pipeline (3')	11/1/1996	870	2,000	NT
MW-1 (5-7')	2/3/1997	53	450	NT
MW-2 (5-7')	2/3/1997	3	31	NT
MW-3 (5-7')	2/3/1997	13	74	NT
MW-4 (5-7')	2/3/1997	8	26	NT
MW-2B (2-4')	2/3/1997	7,200	12,000	NT
MW-3B (2-4')	2/3/1997	2	12	NT
GP-01/S2 (3-5')	5/17/2007	<40.0	<40.0	<40.0
GP-02/S6 (13-15')	5/17/2007	<30.4	<30.4	<30.4
EPC Value		1,438.7	2,412.6	15.2
<i>DEP Method 1 S-1/GW-2/3 Risk Characterization Standards</i>		1,000	3,000	1,000
<i>DEP Method 1 S-3/GW-2/3 Risk Characterization Standards</i>		5,000	5,000	5,000

- Notes: 1) Analytical results and Method 1 Risk Characterization Standards are presented in mg/kg.
 2) NT denotes sample not tested for specified analyte
 3) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.1

Although the Method 1 S-3 GW-2/3 Risk Characterization Standards are currently applicable for the Disposal Site, the more conservative Method 1 S-1 GW-2/3 Risk Characterization Standards are used to protect potential future Site uses. Based on the information presented above, a condition of “No Significant Risk” exists at the Disposal Site for current uses; however, a condition of “No Significant Risk” does not exist for potential future uses of the Site. The more stringent S-1 GW-2/3 Risk Characterization Standards will be achieved by implementing an Activity and Use Limitation (AUL).

5.4 Method 1 Risk Characterization - Groundwater

Method 1 Risk Characterization threshold concentrations for compounds detected in groundwater at the Site are listed in the MCP 310 CMR 40.0974. The most stringent concentration from each groundwater classification is considered to be the threshold under which a concentration of "No Significant Risk" exists.

Pursuant to Policy WSC-02-411 Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MADEP VPH/EPH Approach, Coneco obtained data from Site monitoring wells on a quarterly basis to determine if a condition of "No Significant Risk" exists at the Disposal Site. On October 6, 2005, Coneco measured NAPL in MW-B2 at a thickness of 0.63 feet exceeding the applicable Upper Concentration Limit (UCL) of 0.5 inches presented in 310 CMR 40.0996(6). During the subsequent sampling events from January 20, 2006 to May 24, 2007, Coneco continued to measure NAPL thickness in monitoring wells at the Site. During this period, NAPL thickness was never measured greater than 0.1 inches in any of the monitoring wells. Therefore, NAPL thickness within monitoring wells at the Site, specifically MW-B2, have been reduced below the applicable UCL of 0.5 inches as presented in 310 CMR 40.0996(6). Details of these observations are presented in Table 2.

The concentration of oil or hazardous material in a specific medium which a human or environmental receptor may contact at the Site is defined as the EPC. Under the provisions of MCP 310 CMR 40.0924(2)(a)(1) and 310 CMR 40.0926(3)(b), the arithmetic average of Site data is acceptable as EPC. In this case, the current EPCs were calculated using data from groundwater samples collected from each monitoring well in proximity to the area impacted by the releases of No. 6 fuel oil. Specifically, data obtained from monitoring wells MW-1 through MW-4, MW-B1 through MW-B3, and CMW-1 through CMW-2 between January 20, 2006 and May 24, 2007 were used to calculate the EPCs for each well. For sampling rounds in which contaminant concentrations were not detected above laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC. In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of "No Significant Risk" exists for concentrations of oil and/or hazardous materials which have been reduced to "Background." As no concentrations of PAHs were identified in groundwater samples collected from monitoring wells at the Site between January 20, 2006 and May 24, 2007, these analytes were excluded from this Method I Risk Characterization. The calculated EPCs for groundwater and the applicable Method 1 Risk Characterization Standards are presented below in Table 7.

**Table 7 - Groundwater Exposure Point Concentrations –
January 20, 2006 through May 24, 2007**

Monitoring Well	C ₉ -C ₁₈ Aliphatic Hydrocarbon EPC	C ₁₉ -C ₃₆ Aliphatic Hydrocarbon EPC	C ₁₁ -C ₂₂ Aromatic Hydrocarbon EPC
MW-1	100.00 ⁽¹⁾	266.67	100.00
MW-2	100.00	100.00	100.00
MW-3	100.00	100.00	100.00
MW-4	100.00	100.00	100.00
MW-B1	300.00	566.67	800.00
MW-B2	100.00	100.00	233.33
MW-B3	100.00	100.00	100.00
CMW-1	100.00	100.00	100.00
CMW-2	100.00	100.00	100.00
<i>DEP Method 1GW-2 Risk Characterization Standards⁽²⁾</i>	<i>5,000</i>	<i>NA⁽³⁾</i>	<i>50,000</i>
<i>DEP Method 1GW-3 Risk Characterization Standards</i>	<i>50,000</i>	<i>50,000</i>	<i>5,000</i>

Notes: 1) Analytical results and Method 1 Risk Characterization Standards are presented in µg/l.
2) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.2.
3) NA denotes no standards have been promulgated.

The calculated EPCs for groundwater samples collected from monitoring wells at the Site on a quarterly basis between January 20, 2006 and May 24, 2007 are below the applicable Method 1 GW-2 and GW-3 Risk Characterization Standards. In addition, NAPL thickness measured within monitoring wells at the Site, specifically MW-B2, have been reduced below the applicable UCL of 0.5 inches as presented in 310 CMR 40.0996(6). Therefore, a condition of “No Significant Risk” exists for groundwater at the Disposal Site.

5.5 Potential Receptors and Critical Exposure Pathways

Critical Exposure Pathways (CEP) are defined in 310 CMR 40.0006 as those routes by which oil and/or hazardous materials released at a Disposal Site are transported, or are likely to be transported, to human receptors via:

- a) vapor-phase emissions of measurable concentrations of oil and/or hazardous materials into the living or working space of a pre-school, daycare, school, or occupied residential dwelling; or
- b) ingestion, dermal absorption or inhalation of measurable concentrations of oil and/or hazardous materials from drinking water supply wells located at and servicing a pre-school, daycare, school, or occupied residential dwelling.

Laboratory analysis of groundwater and soil samples indicate that petroleum concentrations are below the currently applicable Method 1 Risk Characterization standards and contained entirely

within the boundaries of the Disposal Site. No structures used as pre-schools, daycares, schools, or occupied residential dwellings are located within the limits of the Disposal Site. No private or public water supply wells are located within 500 feet of the Disposal Site. These conditions thereby preclude the possibility of ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials via vapor phase emissions or water supply wells. Therefore, a CEP as defined in 310 CMR 40.0006, has not been identified and is not considered likely at the Site.

5.6 Condition of Substantial Release Migration

Conditions of Substantial Release Migration (SRM) comprise a condition at a Disposal Site that includes any of the following:

- (a) releases that have resulted in the discharge of separate-phase oil and/or hazardous material to surface waters, subsurface structures, or underground utilities or conduits;
- (b) releases to the ground surface or to the vadose zone that, if not promptly removed or contained, are likely to significantly impact the underlying groundwater, or significantly exacerbate an existing condition of groundwater pollution;
- (c) releases to the groundwater that have migrated or are expected to migrate more than 200 feet per year;
- (d) releases to the groundwater that have been or are within one year likely to be detected in a public or private water supply well;
- (e) releases to the groundwater that have been or are within one year likely to be detected in a surface water body, wetland, or public water supply reservoir; or
- (f) releases to the groundwater that have resulted or are within one year likely to result in the discharge of vapors into school buildings or occupied residential dwellings.

During initial discovery of the release, No. 6 fuel oil was observed in pipe trenches for the USTs and the unnamed stream adjacent to the Fernald Center Power Plant. According to Phase II CSA, Vertex concluded that IRA activities had reduced concentrations of oil and/or hazardous material below Method 1 Soil Risk Characterization Standards, excluding a portion of the Disposal Site confined to the area beneath the concrete slab of the Power Plant building at the Disposal Site. It was determined that the pipe trenches traveled to the basement of the Power Plant building located approximately 20 feet east of the location of the former USTs. Coneco personnel inspected the outfall of the pipe trenches in the basement of the Power Plant building and noted no visual or olfactory evidence of a release of oil or hazardous material. In addition, Coneco conducted a Stage I Environmental Screening and determined that although the release of No. 6 fuel oil had reportedly impacted the stream adjacent to the Site, subsequent field observations did not identify any residual persistent contamination. As such, Coneco is of the opinion that the results of this Screening indicate that no current or future exposure to surface water exists at the Site in relation to this release.

IRA activities at the Site have eliminated the source of the release, and analytical results of soil and groundwater samples collected from the Site have indicated that petroleum concentrations associated with this release have been reduced to levels below the applicable Method 1 Risk Characterization Standards. Field observations of groundwater conditions at the Site and analytical results and have indicated that the release has not migrated beyond the limits of the Disposal Site. Specifically, no

visual and/or olfactory evidence of a release has been observed in monitoring wells downgradient from the release area, and analytical results of groundwater samples collected from viable on-Site monitoring wells have been reduced to levels below the currently applicable Method 1 Risk Characterization Standards.

Based on field evaluation and laboratory analysis, Coneco is of the opinion that no ongoing impact to storm water drainage structures or underground utilities or conduits is associated with the release of No. 6 fuel oil. Based on the physical properties of No. 6 fuel oil and limited extent of the release, Coneco is of the opinion that vapor infiltration into the nearby residential structures is not a likely SRM. No schools or daycare facilities are located within 500 feet of the Disposal Site; thereby precluding the possibility of vapor infiltration into these facilities. According to information obtained from the Waltham Board of Health, no private potable water supply wells are located within 500 feet of the Disposal Site, and no public potable water supply wells are located within 0.5 miles of the Disposal Site. As such, response actions conducted to date have eliminated any former potential condition of SRM and no SRM condition is expected in the future in relation to this release.

5.7 Imminent Hazard Evaluation

During initial discovery of the release, No. 6 fuel oil was observed in pipe trenches for the USTs and the unnamed stream adjacent to The Fernald Center Power Plant. IRA activities were undertaken to address this condition included the removal of the USTs and the removal of impacted soil and groundwater. In addition, IRA activities included the deployment of absorbent materials and the utilization of a vacuum truck to remove of No. 6 fuel oil from the stream. According to the Phase II CSA conducted by Vertex, concentrations of No. 6 fuel oil remain in a portion of the Disposal Site confined to the area beneath the concrete slab of the Power Plant building at the Disposal Site. As such, current and future Site conditions resulting from this release of No. 6 fuel oil are not deemed to pose an Imminent Hazard to health, safety, public welfare and/or the environment pursuant to 310 CMR 40.0321. Therefore, it is Coneco's opinion that no Imminent Hazard currently exists at the Disposal Site.

5.8 Feasibility of Reduction to Background Concentrations

Chapter 21E of the Massachusetts General Laws and the MCP require that if after a remedial action has been completed, the concentrations of oil and hazardous material have not been reduced to background, then an evaluation of the feasibility of approaching or achieving background is required.

The three former 23,000 to 28,000-gallon No. 6 fuel oil USTs were located northwest of the Power Plant building of The Fernald Center. IRA activities conducted by Vertex in 1996 consisted of deployment of oil absorbent pads and booms at the base of the retaining wall and in the adjacent stream, the removal of the three USTs, the excavation of approximately 1,000 cubic yards of No. 6 fuel oil-impacted soil, and the removal of 15,000 gallons of groundwater.

According to the IRA Completion Report issued by Vertex on May 7, 1997, the continuation of soil removal efforts was not possible due to the presence of the Power Plant building and an associated concrete retaining wall. The remedial actions were performed such that all soil which could feasibly be removed from the Site was excavated, with residual concentrations remaining below the currently applicable Method 1 S-3 GW-2/3 Risk Characterization Standards. Based on conditions present at

the Site, the achievement of background conditions through the continuation of response actions is infeasible for the following qualitative reasons:

- The incremental cost to remove additional soil to achieve background concentrations would increase the cost of the project disproportionately to the incremental benefit of risk reduction, environmental restoration, and monetary and non-pecuniary values. Excavation of additional soil may adversely impact the structural integrity of the Power Plant building. The calculated EPCs for soil samples collected from the Site are below the currently applicable Method 1 Risk Characterization Standards.
- The public benefits which may be recognized as a result of achieving background conditions in soil are outweighed by the additional cost incurred to achieve background. There are no surrounding properties which may be adversely impacted economically by not reducing EPH concentrations in groundwater to background. Natural attenuation will continue to reduce EPH concentrations in groundwater.

Given the current data on soil and groundwater conditions, it is the opinion of Coneco that concentrations of oil and/or hazardous materials in soil and groundwater at the Site are "Approaching Background" conditions as specified in Section 9.3.2 and 9.3.3 of Conducting Feasibility Evaluations Under the MCP (Policy #WSC-04-160), and no additional remedial actions are warranted to reduce the concentrations of petroleum constituents in soil to "background" (i.e., non-detectable) concentrations.

5.9 Discussion

The Method 1 Risk Characterization, using the criteria presented in the previous sections, demonstrates that a condition of "No Significant Risk" exists for current uses of soil and groundwater at the Site. Based upon this Method 1 Risk Characterization, a condition of "Significant Risk" is not present for potential future uses of soil at the Site. An AUL for the Site will be utilized to maintain a condition of "No Significant Risk" for future uses of soil at the Site.

6.0 STAGE I ENVIRONMENTAL SCREENING

Based on the reported release of No. 6 fuel oil to the stream adjacent to the Site, a Stage I Environmental Screening was conducted in accordance with 310 CMR 40.0995(3) to characterize potential exposure to Site biota and habitats.

6.1 Current and Potential Exposure Pathways

Exposure Pathways (EP) are defined in 310 CMR 40.0006 as mechanisms by which human or environmental receptors inhale, consume, absorb, or otherwise take in oil and/or hazardous materials.

Field observations made by Coneco during quarterly groundwater sampling activities did not identify persistent petroleum sheens, non-aqueous phase liquids, oil, or tar in surficial soil, surface water, sediment, or wetlands located at and in the vicinity of the Disposal Site. Therefore, evidence of

ongoing, current, or potential exposure of receptors to oil and/or hazardous materials has not been identified and is not considered likely at the Site.

6.2 Readily Apparent Harm

Pursuant to 310 CMR 40.0995(3)(b)(1), the following conditions shall represent “readily apparent harm”:

- a) Visual evidence of stressed biota attributable to the release at the Disposal Site, including, without limitation, fish kills or abiotic conditions;
- b) The existence of oil and/or hazardous material attributable to the Disposal Site in concentrations which exceed Massachusetts Surface Water Standards promulgated in 314 CMR 4.00, which include USEPA Ambient Water Quality Criteria applied pursuant to 314 CMR 4.05(5)(e); or
- c) Visible presence of oil, tar, or other non-aqueous phase hazardous material in soil within three feet of the ground surface over an area equal to or greater than two acres, or over an area equal to or greater than 1,000 square feet in sediment within one foot of the sediment surface.

Following the completion of IRA activities, the source of the release has been eliminated, residual No. 6 fuel oil was reportedly contained and collected, and all remaining concentrations of oil/and or hazardous material are confined to “Isolated Sub-Surface Soils” located beneath the concrete slab floor of the Power Plant building. Field observations made by Coneco during quarterly groundwater sampling activities did not identify persistent petroleum sheens, NAPL, oil, or tar in surficial soil, surface water, sediment, or wetlands located at and in the vicinity of the Disposal Site. Accordingly, evidence of a condition of “Readily Apparent Harm” is not present at the Site in relation to this release.

6.3 Potentially Significant Exposure

In accordance with 310 CMR 0995(3)(a)(1) evidence of current or potential significant exposure shall include, but is not limited to:

- a) Current or past visible physical evidence that oil and/or hazardous material at or from the Disposal Site have come to be located in surface soil, surface water, sediment or wetlands;
- b) Records or other evidence of current or past impacts of oil and/or hazardous material from the Disposal Site on wildlife, fish, shellfish or other aquatic biota;
- c) Analytical data indicating the presence of oil and/or hazardous material attributable to the site in question in surface water or sediment, including wetlands;
- d) The potential for the transport of oil and/or hazardous material in the groundwater or surface runoff to such receptors as surface water or sediments, including wetlands identified as Environmental Receptors; or
- e) The presence of oil and/or hazardous material at the Disposal Site within two feet of the ground surface and the potential for such contamination to result in exposure to wildlife.

-
- Any subsurface activity or excavation which may result in direct contact with, disturbance, or relocation of contaminated soils between 2 and 15 feet which is not conducted in accordance with the Obligations of the Notice of AUL.

The AUL Opinion provides that a condition of "No Significant Risk" to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur within the designated AUL Area:

- Any activities and uses consistent with the current use of the Portion of the property as a power plant facility and parking area;
- Activities and uses including, but not limited to, maintenance of the asphalt-parking area and concrete floor within the designated AUL Area which do not cause direct contact with, disturbance, or relocation of, the contaminated soil within the designated AUL Area;
- Excavation associated with limited short term utility work which may be deemed necessary within the designated AUL Area, provided that it is conducted in accordance with the performance standards for Utility Related Abatement Measures (URAMs) set forth by the MCP at 310 CMR 40.0030, and all applicable worker health and safety practices pursuant to 310 CMR 40.0018;
- Subsurface activities and/or construction, including but not limited to excavation associated with future construction of buildings and other improvements to support permitted uses on the property which may disturb contaminated soils, provided that such work is conducted in accordance with a Soil Management Plan developed in accordance with Obligation (ii) as set forth in Notice of AUL Item 3.
- Activities and uses not expressly prohibited by the Notice of AUL;
- Such other activities and uses which, in the Opinion of a LSP, as defined in 310 CMR 40.0006, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

A metes and bounds description of the area subject to the AUL is as follows:

COMMENCING Commencing at a drill hole in a stone bound on the southeasterly line of Waverley Oaks Road, said bound lying N 51° 29' 49" E a distance of 1051.13 feet from the center of a stone bound also on the southeasterly line of Waverley Oaks Road which marks the point of curvature at the intersection of the northeasterly line of Beaver Street with the southeasterly line of Waverly Oaks Road;

THENCE N 47°27'49" W for a distance of 579.87 feet to the point of beginning of the herein described AUL area;

THENCE S 10°40'10" W a distance of 123.00 feet;

IRA activities have been conducted at the Site such that any residual No. 6 fuel oil representing a potential release to surface water has been contained and collected. No visible physical evidence of persistent petroleum sheen or evidence of a release of oil or hazardous material was noted by Coneco personnel during groundwater sampling events between August 2003 and May 2007. As such, Coneco is of the opinion that IRA activities conducted to date have eliminated any "Potentially Significant Exposure."

6.4 Discussion

In accordance with 310 CMR 40.0995(3), a Stage I Environmental Screening has been completed at the Site. Although the release of No. 6 fuel oil had reportedly impacted the stream adjacent to the Site, subsequent field observations did not identify any residual persistent contamination. As such, Coneco is of the opinion that the results of this Screening indicate that no current or future exposure exists at the Site in relation to this release. As such, pursuant to 310 CMR 40.0995(3)(a)2, a condition of "No Significant Risk of harm" to Site biota and habitats exists and a Stage II Environmental Screen is not required.

7.0 ACTIVITY AND USE LIMITATION OPINION

Based upon the Risk Characterization performed at the Site, a condition of "No Significant Risk" is present for all current uses of the Site. However, since the Method 1 Risk Characterization relies on exposure assumptions that are not unlimited to maintain a condition of "No Significant Risk" in the area of impacted soil located at the Site, an AUL is required. With an AUL on the Site to maintain the current activities and uses at the Site, a condition of "No Significant Risk" will exist for the future activities and uses at the Site.

Based upon analytical data collected during Coneco's investigations, the area subject to the AUL is depicted in plan view in Figure 6. A copy of the AUL and the applicable legal notice is presented in Appendix 5.

The soil subject to the AUL is referenced in Figure 6 and is registered at the Middlesex County Registry of Deeds in Plan Book 50880, Page 306. Prohibited activities include the following:

- The use of buildings located with the Portion of the Property as an office, store, residence, school, or daycare;
- The cultivation of fruits and vegetables destined for human consumption (*e.g.*, gardening);
- Recreational activities, such as playing baseball, swimming, fishing and hiking;
- Leisure activities, such as picnicking, sunbathing and entertaining;
- Relocation of the contaminated soils within the designated AUL Area unless an LSP Opinion is rendered which attests that a condition of "No Significant Risk" is maintained, consistent with the provisions of the MCP;

THENCE N 79°19'50" W a distance of 145.00 feet;
THENCE N 10°40'10" E a distance of 123.00 feet;
THENCE S 79°19'50"E a distance of 140.00 feet to the point of beginning.

Containing 17,835 Square Feet and bounded on all sides by other land of the Commonwealth of Massachusetts. The depth of the area subject to the AUL begins at a depth of approximately 2 feet below surface grade and extends 15 feet below the existing surface grade.

Notifications to the Chief Municipal Officer, Health Department, Zoning Official, and Building Department, as well as a published legal notice have been made within 7 days of the AUL submittal. The AUL Transmittal Form (BWSC-113) and the AUL Opinion Form (BWSC-113A) are included in Appendix 6.

8.0 RESPONSE ACTION OUTCOME

A summary and conclusions of the Response Action are as follows:

- No uncontrolled sources of contamination are present at the Disposal Site. As a result, no additional response actions are necessary at the Disposal Site.
- Groundwater conditions at the Site pose a condition of "No Significant Risk" based on the completed Method 1 Risk Characterization. The calculated EPCs for soil at the Site are below the currently applicable Method 1 Risk Characterization Standards; therefore, a condition of "No Significant Risk" exists for current uses of the Site. An AUL has been implemented at the Site to ensure the existence or maintenance of a level of "No Significant Risk" for future uses of soil at the Site.
- A Permanent Solution has been achieved.
- Remedial actions and the implementation of an AUL were necessary to achieve a condition of "No Significant Risk" at the Site; therefore, conditions for a Class A-3 RAO have been met at the Site in accordance with 310 CMR 40.1035 and 40.1036(3). Copies of public notification requirements and the original DEP transmittal forms are included in Appendix 7.

Based on the information presented herein, and subject to the limitations of the proposed Scope of Services, it is the opinion of Coneco that a condition of "No Significant Risk" to human health, safety, public welfare, and the environment exists at the Site following the recording of the AUL.

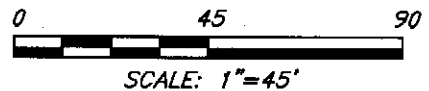
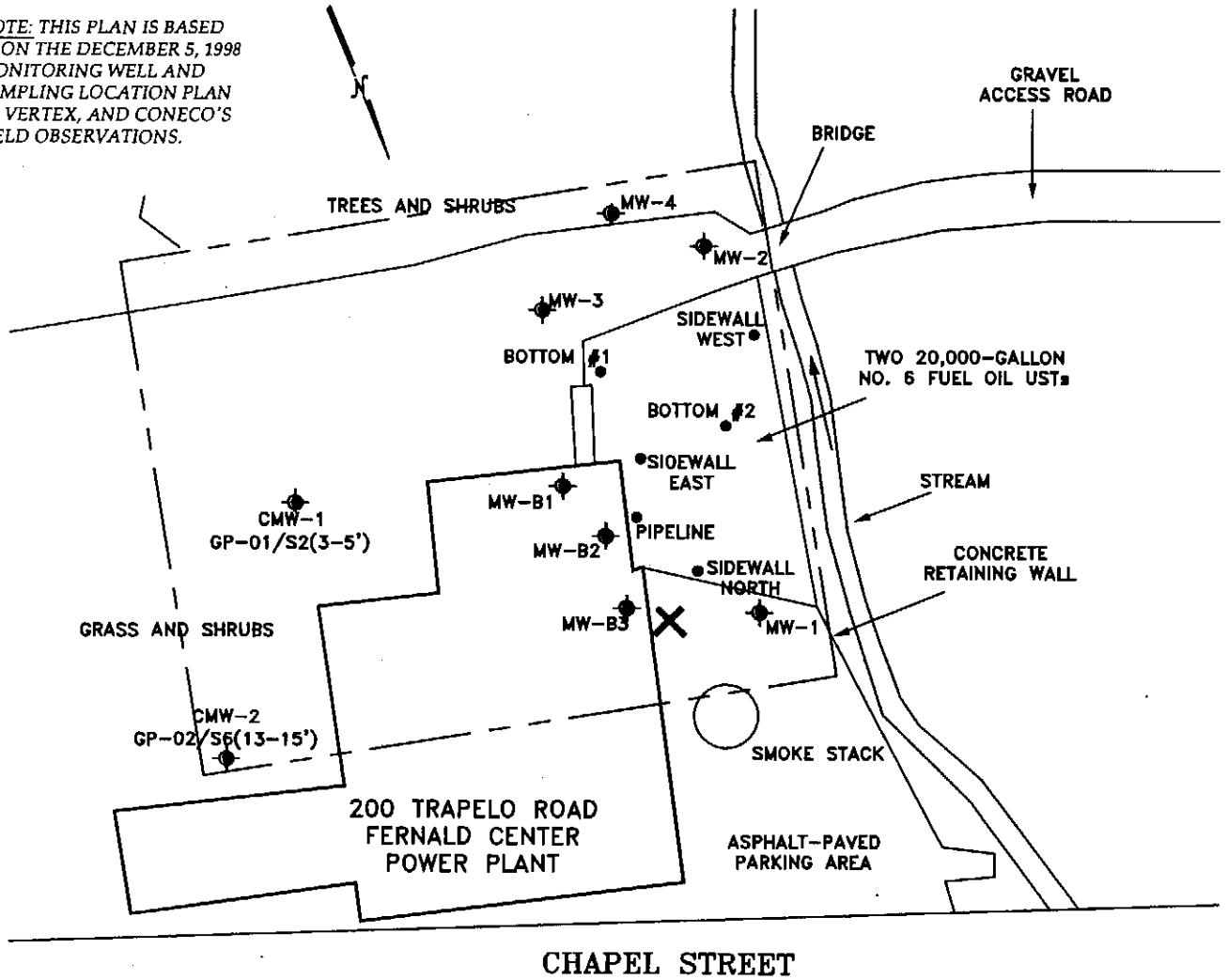
Pursuant to 310 CMR 4.03, response actions conducted by State Agencies are exempt from compliance assurance fees as described in 310 CMR 4.00.

9.0 LIMITATIONS

The conclusions expressed by Coneco in this report are based solely on the references cited. Observations were made under the conditions stated. Information provided by subcontractors, federal, state, and local agencies contacted was relied upon as complete. This report represents Coneco's opinion relative to such evidence. The purpose of this report was to describe current Site conditions and to delineate the presence of potential soil, groundwater and/or surface water contamination resulting from the release of No. 6 fuel oil at the Site. Unless otherwise specified in the scope of work, Coneco accepts no responsibility for client performance of recommendations as may be offered in this report. No attempt was made to investigate Site owner or operator compliance with federal, state, or local laws and regulations in connection with Site usage.

Should additional information become available concerning this Site or neighboring properties in the future, that information should be made available to Coneco for review so that the conclusions presented in this report may be modified as necessary. With specific regard to soil and groundwater sampling activities, data obtained from confirmatory samples may not be wholly representative of the nature and extent of conditions at locations other than the actual test locations on the date the samples were collected. Variable conditions may only become evident upon further exploration. If variations become apparent in the future, it will be necessary to reevaluate the conclusions and recommendations offered in this report.

NOTE: THIS PLAN IS BASED UPON THE DECEMBER 5, 1998 MONITORING WELL AND SAMPLING LOCATION PLAN BY VERTEX, AND CONECO'S FIELD OBSERVATIONS.



LEGEND

--- LIMITS OF DISPOSAL SITE BOUNDARY

BOTTOM #1 SOIL SAMPLE LOCATION ID

MW-1 WELL LOCATION ID

— SURFACE WATER

→ STREAM FLOW DIRECTION

X BENCHMARK ELEVATION LOCATION



4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3191

SITE PLAN

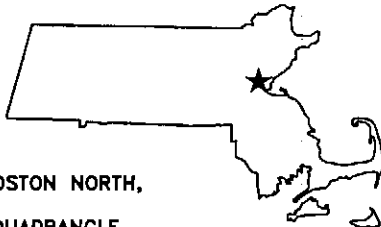
FERNALD CENTER - POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13467

	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
BY	FJC	BFK	21//9852/Drawings and Figures/SITE PLAN-RA0.dwg	AS NOTED	4953	FIGURE 2
DATE	1/18/08	2/14/08				



 SITE LOCUS
 500-FOOT RADIUS
 0.5-MILE RADIUS

COORDINATES OBTAINED FROM NAD83 DATUM
 LATITUDE: 42° 22' 55" N
 LONGITUDE: 71° 12' 42" W
 UTM: 4,695,066 N 318,192 E (Zone 19)



U.S.G.S. 1979 BOSTON NORTH,
 MASSACHUSETTS
 7.5X15 MINUTE QUADRANGLE

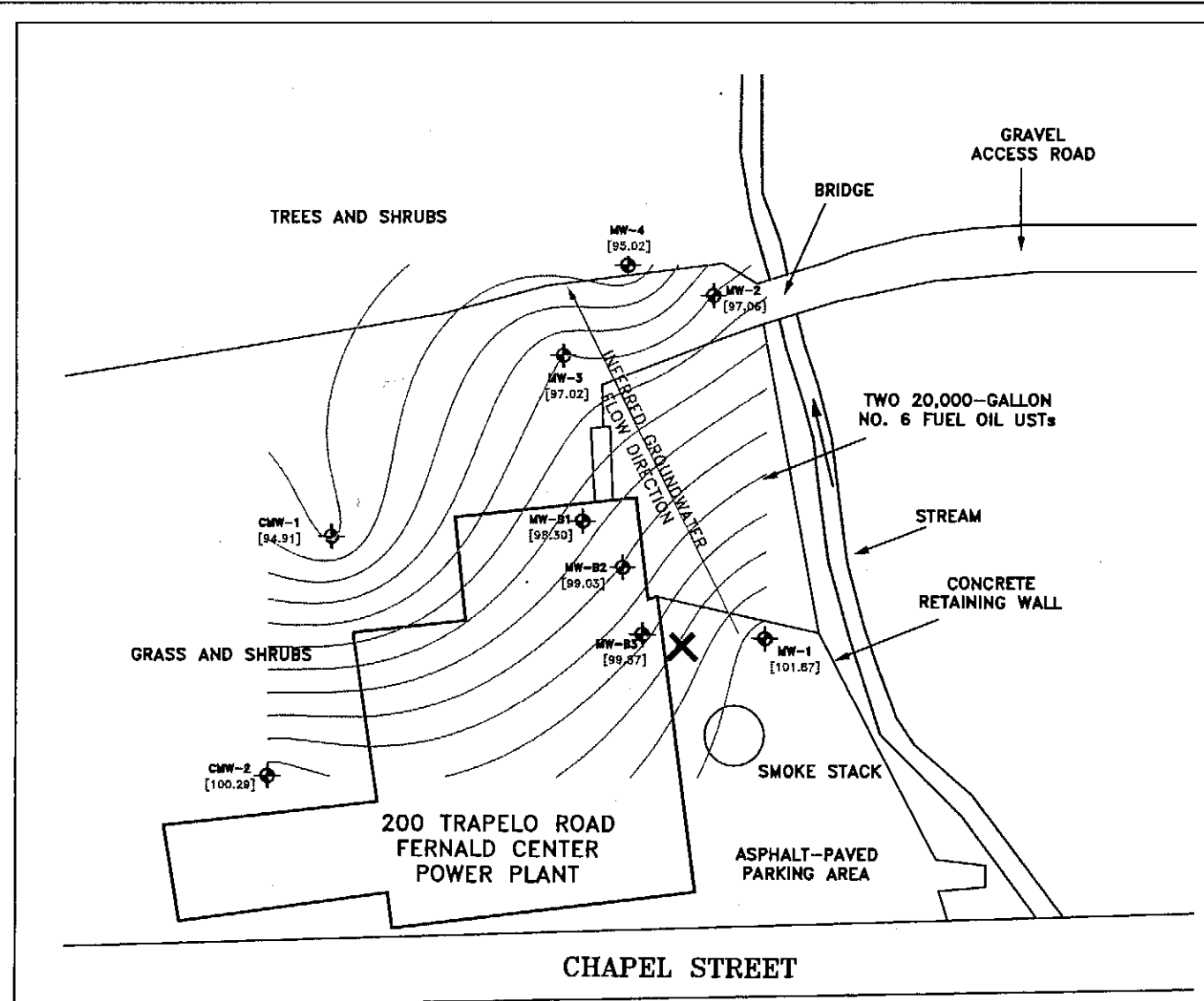


4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 697-3191

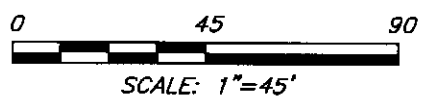
SITE LOCUS MAP

FERNALD CENTER POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13467

SCALE	PROJECT NO.	DRAWING NUMBER
1:25,DDD	4953	FIGURE 1



THIS PLAN IS BASED UPON THE
 DECEMBER 5, 1998 MONITORING
 WELL AND SAMPLING LOCATION
 PLAN BY VERTEX, AND CONECO'S
 FIELD OBSERVATIONS.



LEGEND

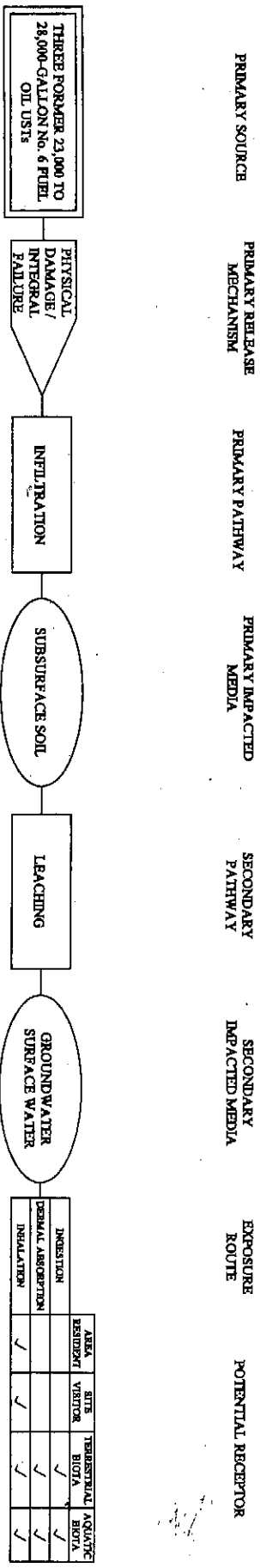
- INFERRED DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER CONTOUR AND ELEVATION IN FEET
- MW-1 [98.15] WELL LOCATION ID AND GROUNDWATER DEPTH IN FEET
- BENCHMARK ELEVATION LOCATION
- STREAM FLOW DIRECTION

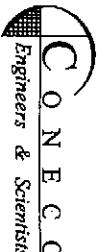


4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3191

GROUNDWATER CONTOUR PLAN
FERNALD CENTER - POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
 RELEASE TRACKING NUMBER 3-13467

	DRAWN MMP	CHECKED BFK	CAD FILE NO. D://4953/Drawings and Figures/GW-240.dwg	SCALE AS NOTED	PROJECT NO. 4953	DRAWING NUMBER FIGURE 3
BY	DATE	DATE				
	11/15/07	11/16/07				



 CONNECCO <i>Engineers & Scientists</i>		CONCEPTUAL SITE MODEL	
POWER PLANT FERNALD CENTER WALTHAM, MASSACHUSETTS		RELEASE TRACKING NUMBER 3-13467	
BY	DATE	SCALE	PROJECT NO.
DRAWN	2/15/06	N / A	4933
F.I.C.	CHECKED	CAD FILE NO.	DRAWING NUMBER
	2/15/06		FIGURE 4

4 WEST STREET, BOSTON, MASSACHUSETTS (617) 697-3191

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

Arnold Center Power Plant
 90 Trapelo Road
 Fall River, MA 02452
 4695666x 318192ew



The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Office of Geographic and Environmental Information

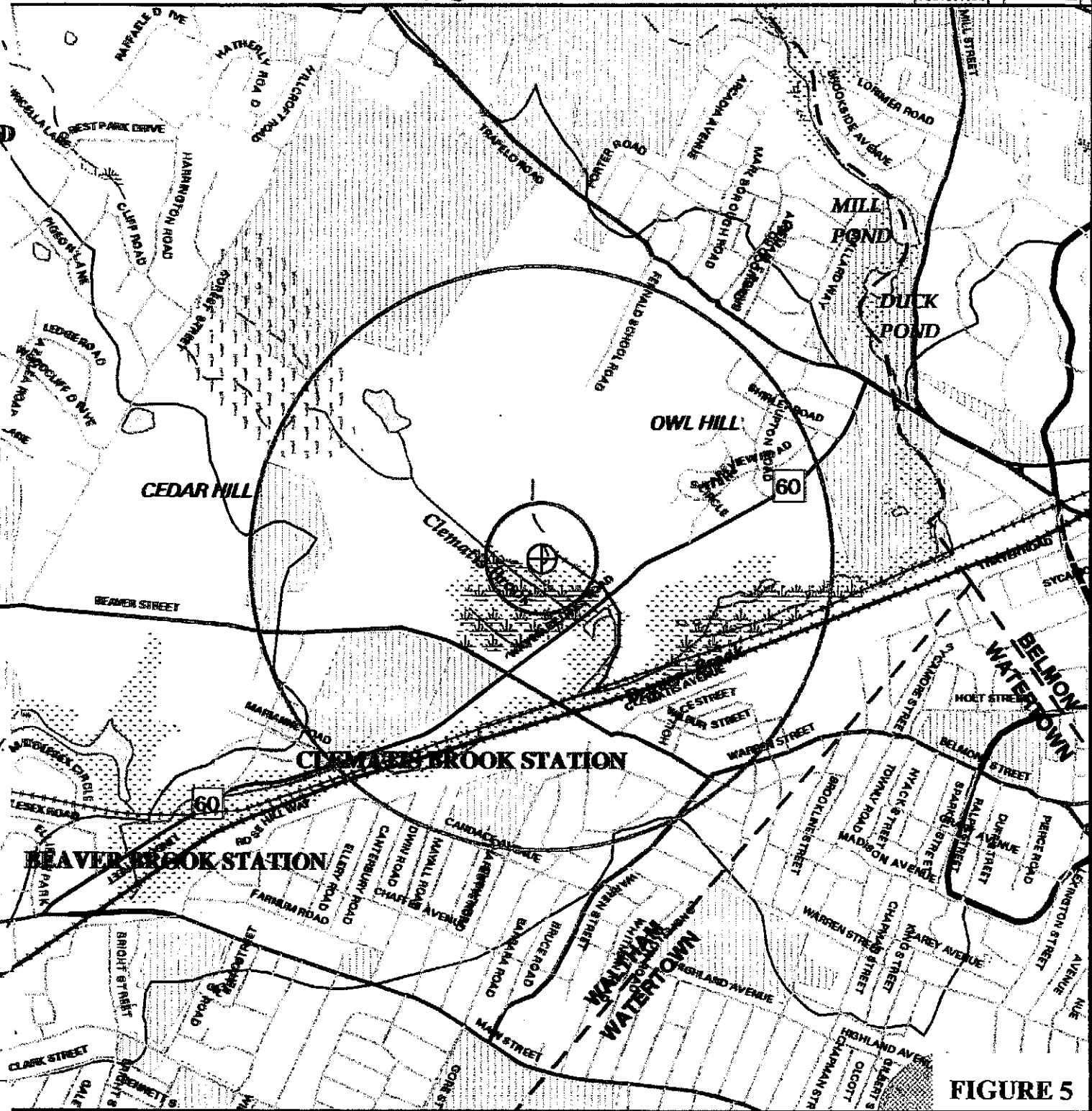
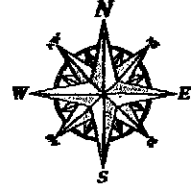
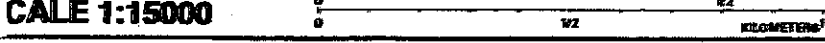


FIGURE 5

Roads: Limited Access, Divided, Major Road, Connector, Street, Trail	EPA Sole Source Aquifer; FEMA 100-year floodplain		
Boundaries: Town, County, DEP Region, Train; Passelines; Pipeline; Aqueduct	Public Water Supplies: Ground, Surface, Non Community		
Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams	Approved Zone 2; INPA; Surface Water Supply Zone A		
Potentially Productive Aquifers: Medium, High Yield	Hydrography: Water Features, Public Surface Water Supply		
Non-Potential Drinking Water Source Area: Medium, High Yield	Wetlands: Fresh, Salt, NHEHP Wetlands Habitat		
	Protected Open Space; ACEC		
	DEP Permitted Solid Waste Facilities; Certified Vernal Pools		



SCALE 1:15000



September 28, 2007

Standard Operating Procedures

Standard Operating Procedure: Monitoring Well Installation

Discussion:

Proper installation of monitoring wells is an essential element to an accurate hydrologic or site assessment investigation. Installation of monitoring wells typically consists of a 2 inch inside diameter (ID) Schedule 40 PVC well screen (0.1 inch slot size) and similar solid riser pipe. The screened interval is usually 10 feet in length and is centered at the apparent groundwater surface at the time of installation. One inch or four inch ID screen and riser may also be used depending on the constraints and objectives of the drilling program.

Procedure:

- 1) Upon completion of the test boring, the preassembled well screen and riser, with bottom plug siltation trap, is inserted into the borehole or more commonly, into the hollow stem auger or casing, as removing the auger flights can cause the surrounding formation to prematurely collapse on the well screen.
- 2) The well assembly is positioned at the desired depth and the annular space between the sidewall and well casing assembly is then backfilled with a clean, well sorted silica sand to a depth at least one foot above the well screen/riser connection. The screen and riser pipe is installed to be vertically plumb.
- 3) Once the sand filter pack is emplaced to the proper depth below grade (measured with tape), a divider seal, most commonly bentonite pellets, is inserted into to the annular space until a six-inch to 1-foot thick impermeable seal is formed around the casing.
- 4) The method for the backfilling the remainder of the annular space is determined by the qualified CONECO personnel. Typically, native material removed from the borehole having a PID reading below 10 ppm is then used to backfill the remaining annular space. Alternative backfill materials include concrete slurry or bentonite/water mixtures. The well riser is then fitted with a top plug and a locking protective casing or road box.
- 5) The protective casing or road box is securely cemented in place over the well. The cement seal is at a minimum one foot thick. If a road box is used, it is cemented flush with the pavement surface. If used, other protective casings should be grouted in place at least 0.5 feet above grade and identified with flagging.

Discussion:

Water standing in a well prior to development and sampling may not be representative of true groundwater quality in the aquifer. It is therefore necessary to first purge the well of all stagnant water so that a representative groundwater sample can be obtained. Depending upon the monitoring well construction and hydraulic characteristics of the aquifer, well development may be conducted by manual bailing or with a submersible pump. Bailing is most appropriate for low yield or deep wells, whereas a pump may be suitable for higher yield wells or where sampling within a discrete zone is necessary.

Procedure:

- 1) Using a clean groundwater sensor indicator determine the depth to the water table and determine the total depth of the well and record in the field logbook. Depth to groundwater should be measured from a specified reference point on the PVC riser pipe.

Then calculate the volume of standing water using the following equation:

$$v = \pi r^2 h \text{ where:}$$

v = one well volume of water (generally converted to gallons)
- for inches multiply by 4.33×10^{-3}
- for feet multiply by 7.48 to give gallons

$$\pi = 3.14$$

r = the radius of the well, measured as the inside diameter of the well divided by 2

h = the height of the water column in the well

Sample Calculation:

Assume: $r = 2\text{-inch ID} = 0.16\text{-foot ID}$

$$h = 1 \text{ foot}$$

$$v = 3.14 * (0.16 \text{ ft}/2)^2 * (1 \text{ foot}) * (7.48 \text{ gal}/\text{ft}^3)$$

$$v = 0.16 \text{ gal}$$

$$3v = 0.48 \text{ gal}$$

Therefore, as a rule of thumb, approximately 0.5 gallons of water must be purged from the well for each foot of water present in the monitoring well column.

- 2) Calculate the number of bailer volumes or the duration of pumping required to evacuate at least three well volumes.
- 3) Evacuate well water to a small bucket or vessel (<0.5 gallons) in which the pH and specific conductivity probes have been placed.
- 4) Purging should continue until pH, temperature, and specific conductivity values do not vary appreciably; a minimum of three well volumes have been removed; and a

Standard Operating Procedure: Monitoring Well Sampling (Cont'd)

stabilization in the silt content of the evacuated water has been achieved. Care should be taken so that the bailer line does not come in contact with the ground.

- 5) Record final pH, temperature, and specific conductivity values in field log book.
- 6) Prior to sampling, allow an equilibration period (minimum of 10 minutes).
- 7) Decontaminate all downhole purging equipment after use in one well using applicable standard operating procedures. If a disposable bailer or tubing is used, discard after one use. Discard the line used to support the bailer between wells.
- 8) A new pair of disposable gloves shall be worn for each individual well sampling.
- 9) Samples should be collected and containerized in order of decreasing sensitivity to volatilization.

The following order should be used in collection of samples:

VOCs
semi-VOCs
Petroleum Hydrocarbons
Metals
PCBs

- 10) Minimize agitation of sample during collection to prevent possible volatilization of components present in the sample.
- 11) Care must be taken to eliminate entry of or contact with any substance other than the water sample and the interior surface of the sampling container.
- 12) Samples submitted for VOC analysis should not contain any air bubbles.
- 13) Samples submitted for dissolved metals analysis should be filtered in the field, using CONECO's filtration and pump system. Acidification of the sample should not be performed until the sample has been properly filtered.
- 14) When full, sampling containers should be securely capped, wiped off, appropriately labeled, and refrigerated until their delivery to the laboratory.
- 15) Complete the chain of custody form.

Standard Operating Procedure: Decontamination of Sampling Equipment

Discussion:

In most cases sampling equipment will either be dedicated on-Site or disposed of following use in a specific well, eliminating the need for decontamination of sampling equipment. In those cases where decontamination of sampling equipment is required, the method chosen will be one that removes Site contaminants from the equipment without interference with the chemical analyses to be performed. The general decontamination methodology for in-lab and field decontamination procedures is as follows:

Procedure:

- 1) Wash equipment with a non-phosphate detergent solution (e.g. Alconox, Liqui-nox).
- 2) Rinse thoroughly with de-ionized water.
- 3) Rinse thoroughly with methanol.
- 4) Rinse thoroughly with de-ionized water.
- 5) Repeat procedure between each sampling location.
- 6) If sampling for dissolved metals is being conducted, an additional rinse with a weak hydrochloric acid solution and de-ionized water should be performed.
- 7) If sampling for PCBs is being performed, an additional rinse with a weak hexane solution and de-ionized water should be conducted.
- 8) Care should be taken to ensure that no rinse waters runoff to environmentally sensitive area.

Discussion:

The simplest, most direct method of collecting soil samples for subsequent laboratory analysis or field screening is the use of a spade and/or scoop. A normal lawn or garden spade is utilized to remove the top cover of soil to the required depth and then a smaller stainless steel scoop is used to collect the sample.

This method can be used in most soil types but is limited somewhat to sampling near the surface. Samples from depths greater than 2 feet become labor intensive in most soil types. Very accurate, representative samples can be collected using this procedure depending on the care and precision demonstrated by the technician. The use of a flat, pointed mason trowel to cut a block of the desired soil will be of aid when undisturbed profiles are required. A stainless steel scoop or laboratory spoon will suffice in most other applications. Care should be exercised to avoid the use of devices plated with chrome or other materials, as metallic plating can affect ionic concentrations in the sample. Plating is particularly common with garden implements such as potting trowels.

Procedure:

- 1) Prior to initiating any work, the Health and Safety Plan developed for the specific site activities should be reviewed by the Field Technician and the Project Manager. The indicated precautions on the Plan should be enacted prior to initiation of the sampling activities. Any concerns not addressed in the Health and Safety Plan document are to be brought to the attention of the Health and Safety Officer.
- 2) Carefully remove the top layer of soil to the desired sample depth with a precleaned spade.
- 3) Using a precleaned stainless steel scoop or trowel, remove and discard a thin layer of soil from the area which comes in contact with the shovel.
- 4) Transfer the sample into an appropriate sample container with a clean stainless steel laboratory spoon or similar instrument.
- 5) Secure the cap tightly. Label the sample bottle with the appropriate sample tag. The chemical preservation of solids is generally not recommended. Be sure to label the tag carefully and clearly, addressing all the categories and parameters. Refrigerate sample until shipment to the laboratory.
- 6) Complete all chain-of-custody documents and record in the field log book.
- 7) Decontaminate equipment after use and between sample locations using applicable standard operating procedures.

Standard Operating Procedure: Geoprobe® Sampling In Overburden Materials

Discussion:

Test boring programs in unconsolidated overburden materials may be conducted using a variety of drilling techniques. While most borings associated with site assessment techniques are performed using a hollow-stem auger, a less expensive method of obtaining soil samples is using Geoprobe® equipment. The powerful aspect of this technique is the versatility and mobility of the equipment both on the interior and exterior of site buildings. Samples can be obtained at depths up to 100 feet in a variety of geological conditions and locations. A 1.5-inch inside diameter (ID) macro core sampler is driven through overburden deposits using a pneumatically or electrically operated hammer. Collected within this macro core is a continuous soil sample available for field screening or more detailed laboratory analysis.

Procedure:

- 1) All Geoprobe® activities are continuously inspected by a qualified CONECO geologist or engineer. The inspector is familiar with the selected sampling program and is responsible for QA/QC procedures. Boring logs and field notes, as well as procedural changes, are the responsibility of the inspector.
- 2) All Geoprobe® equipment is decontaminated prior to initial use and during activities at the site
- 3) The 4-foot long macro core sampler (2 inch ID) is prepared by inserting a PETG (acetate) liner inside the macro core. Depending on the desired sampling depths, 3-foot or 1-foot extension rods are then placed on the opposite end of the macro core. Acetate liners are replaced after each sampling run.
- 4) Beginning from the surface, the macro core sampler is driven through overburden materials using a pneumatically or electrically operated hammer. Once the core sampler has been driven through the desired depths, it is removed using an extractor jack. The PETG liner containing the soil sample is then removed from the macro core and emptied onto a clean surface.
- 5) Descriptions of the sample materials, stratigraphy, as well as sampling activities are recorded on the test boring log. Soil samples, when recovered, are placed in appropriate containers for PID screening and laboratory analysis, if required.
- 6) Any excess soil samples obtained during boring activities will remain on-Site. Those soils exhibiting PID levels of 10 ppm or greater will be segregated and either containerized or placed on and covered with 6-mil polyethylene.

Test Boring Logs

CONECO ENGINEERS & SCIENTISTS

GEOPROBE TEST BORING REPORT

PROJECT: 4953
 LOCATION: 200 Trapelo Road Waltham, Massachusetts
 DRILLING CO: New England Geotech
 EQUIPMENT: Geoprobe 6600
 DRILLED BY: Hayes Renbijias
 INSPECTED BY: FJC

BORING NO. GP-01/CMW-1
 PAGE 1 OF 1
 DATE STARTED: 5/17/2007
 DATE FINISHED: 5/17/2007
 SURFACE ELEVATION N/A

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED:
 DEPTH | STABILIZATION TIME
5.5" | _____

CORE
 TYPE: ROD SAMPLER BAR
 Geoprobe Macro-core N/A
 SIZE ID: 1" 2"
 PENETRATION: 60" 60"

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	WELL DATA	WATER TABLE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/RECOV (in./in.)	Hm (ppm) Lamp 11.7eV
0.0	0-2.5'			Surface: Gravel and Vegetation Gravelly Silty Sand: medium to coarse sand, 15% slightly plastic fines, 10% medium sub-angular gravel, black to dark brown, damp	SS-1	60/48	ND
	2.5-5'			Gravelly Silty Sand: same as above	SS-2	"	ND
5.0	5-7.5'			Gravelly Silty Sand: same as above, tan, saturated	SS-3	60/36	ND
	7.5-10'			Gravelly Silty Sand: same as above	SS-4	"	ND
10.0				Bottom of Boring: 10' Bottom of Well: 10' Well Screen: 10 to 0' below surface grade			
15.0							
20.0							

GENERAL REMARKS: ND = Not detected above instrument detection limits of 0.1 parts per million.

NT = Not Tested

Bentonite

Sand

Well Screen

CONECO ENGINEERS & SCIENTISTS

GEOPROBE TEST BORING REPORT

PROJECT: 4953
 LOCATION: 200 Trapelo Road Waltham, Massachusetts
 DRILLING CO: New England Geotech
 EQUIPMENT: Geoprobe 6600
 DRILLED BY: Hayes Renbijias
 INSPECTED BY: FJC

BORING NO. GP-02/CMW-2
 PAGE 1 OF 1
 DATE STARTED: 5/17/2007
 DATE FINISHED: 5/17/2007
 SURFACE ELEVATION: N/A

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
12' | _____

CORE
 ROD SAMPLER BAR
 Geoprobe Macro-core N/A
 TYPE: _____
 SIZE ID: 1" 2"
 PENETRATION: 60" 60"

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	WELL DATA	WATER TABLE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/RECOV (in./in.)	Hnu (ppm) Lamp 11.7eV
0.0	0-2.5'			Surface: Grass and Vegetation Topsoil: 0-6" Gravelly Silty Sand: medium to coarse sand, 15% slightly plastic fines, 10% sub-angular gravel, tan	SS-1	60/30	ND
	2.5-5'			Gravelly Silty Sand: same as above	SS-2	"	ND
5.0	5-7.5'			Gravelly Silty Sand: same as above	SS-3	60/30	ND
	7.5-10'			Gravelly Silty Sand: medium to coarse sand, 10% slightly plastic fines, 5% sub-angular gravel, gray/brown	SS-4	"	ND
10.0	10-12.5'			Gravelly Silty Sand: same as above, large gravel pieces	SS-5	60/30	ND
	12.5-15'		▽	Silty Gravelly Sand: coarse sand, 15% coarse gravel, less than 5% fines, brown	SS-6	"	ND
15.0	15-17.5'			Gravelly Silty Sand: very coarse sand, sub-angular gravel, brown, wet, reddish brown veins of iron	SS-7	60/50	ND
	17.5-20'			Gravelly Silty Sand: same as above	SS-8	"	ND
20.0				Bottom of Boring: 20' Bottom of Well: 19' Well Screen: 19 to 9' below surface grade			

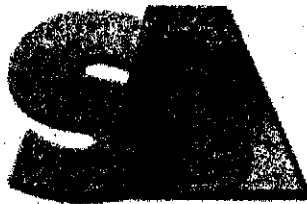
GENERAL REMARKS: ND = Not detected above instrument detection limits of 0.1 parts per million.

NT = Not Tested

-  Bentonite
-  Sand
-  Well Screen

**Original Laboratory Data, Laboratory QA/QC, Methods
and Chain of Custody**

Report Date:
24-May-07 15:32



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Coneco Environmental
4 First Street
Bridgewater, MA 02324
Attn: Brian F. Klingler

Project: 200 Trapelo Rd - Waltham, MA
Project 4953

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA62307-01	GP-01/S2 (3-5')	Soil	17-May-07 13:10	18-May-07 15:01
SA62307-02	GP-02/S6 (13-15')	Soil	17-May-07 14:00	18-May-07 15:01

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met

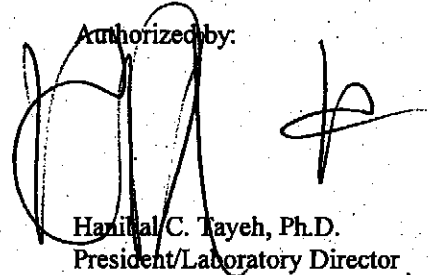
Please note that this report contains 12 pages of analytical data plus Chain of Custody document(s).

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- New Jersey # MA011/MA012
- New York # 11393/11840
- Rhode Island # 98
- USDA # S-51435
- Vermont # VT-11393



Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial 

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CASE NARRATIVE:

The data set for this work order complies with internal QC criteria for the methods performed. The samples were received @ 3.8 degrees Celsius. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM), which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits. Please refer to "Notes and Definitions" for all sample/analyte qualifiers. Qualifiers will narrate any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

Sample Identification
 GP-01/S2 (3-5')
 SA62307-01

Client Project #
 4953

Matrix
 Soil

Collection Date/Time
 17-May-07 13:10

Received
 18-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	40.0	1	+MADEP EPH 5/2004 R	21-May-07	24-May-07	7051531	jd
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	40.0	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	40.0	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	BRL		mg/kg dry	40.0	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	40.0	1	"	"	"	"	"
	Unadjusted Total Petroleum	BRL		mg/kg dry	40.0	1	"	"	"	"	"
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	199	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	199	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/kg dry	199	1	"	"	"	"	"
83-32-9	Acenaphthene	BRL		µg/kg dry	199	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	199	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	199	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	199	1	"	"	"	"	"
208-44-0	Fluoranthene	BRL		µg/kg dry	199	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	199	1	"	"	"	"	"
58-55-3	Benzo (a) anthracene	BRL		µg/kg dry	199	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	199	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	199	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	199	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	199	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	199	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	199	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	199	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	55			40-140 %		"	"	"	"	"
84-15-1	Ortho-Terphenyl	89			40-140 %		"	"	"	"	"
580-13-2	2-Bromonaphthalene	58			40-140 %		"	"	"	"	"
321-60-8	2-Fluorobiphenyl	90			40-140 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	74.5		%		1	SM2540 G Mod.	23-May-07	23-May-07	7051752	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 2 of 12

Sample Identification
 GP-02/S6 (13-15')
 SA62307-02

Client Project #
 4953

Matrix
 Soil

Collection Date/Time
 17-May-07 14:00

Received
 18-May-07

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	30.4	1	+MADEP EPH 5/2004	21-May-07	24-May-07	7051531	jd
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	Unadjusted Total Petroleum	BRL		mg/kg dry	30.4	1	"	"	"	"	"
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	151	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	151	1	"	"	"	"	"
208-98-8	Acenaphthylene	BRL		µg/kg dry	151	1	"	"	"	"	"
83-32-9	Acenaphthene	BRL		µg/kg dry	151	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	151	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	151	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	151	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	151	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	151	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	151	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	151	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	151	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	151	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	151	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	58			40-140 %		"	"	"	"	"
84-15-1	Ortho-Terphenyl	76			40-140 %		"	"	"	"	"
580-13-2	2-Bromonaphthalene	44			40-140 %		"	"	"	"	"
321-60-8	2-Fluorobiphenyl	71			40-140 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.7		%		1	SM2540 G Mod.	23-May-07	23-May-07	7051752	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7051531 - SW846 3545A										
Blank (7051531-BLK1)										
Prepared: 21-May-07 Analyzed: 22-May-07										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Naphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Acenaphthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Surrogate: 1-Chlorooctadecane	1680		µg/kg wet		3330		50	40-140		
Surrogate: Ortho-Terphenyl	2720		µg/kg wet		3330		82	40-140		
Surrogate: 2-Bromonaphthalene	1310		µg/kg wet		2670		49	40-140		
Surrogate: 2-Fluorobiphenyl	2300		µg/kg wet		2670		86	40-140		
LCS (7051531-BS1)										
Prepared: 21-May-07 Analyzed: 22-May-07										
C9-C18 Aliphatic Hydrocarbons	29.0		mg/kg wet	13.4	40.0		72	40-140		
C19-C36 Aliphatic Hydrocarbons	32.3		mg/kg wet	13.4	53.3		61	40-140		
C11-C22 Aromatic Hydrocarbons	87.3		mg/kg wet	13.4	113		77	40-140		
Naphthalene	2870		µg/kg wet	66.5	6670		43	40-140		
2-Methylnaphthalene	3750		µg/kg wet	66.5	6670		56	40-140		
Acenaphthylene	3950		µg/kg wet	66.5	6670		59	40-140		
Acenaphthene	4300		µg/kg wet	66.5	6670		64	40-140		
Fluorene	4790		µg/kg wet	66.5	6670		72	40-140		
Phenanthrene	5430		µg/kg wet	66.5	6670		81	40-140		
Anthracene	5310		µg/kg wet	66.5	6670		80	40-140		
Fluoranthene	5920		µg/kg wet	66.5	6670		89	40-140		
Pyrene	5910		µg/kg wet	66.5	6670		89	40-140		
Benzo (a) anthracene	5410		µg/kg wet	66.5	6670		81	40-140		
Chrysene	5740		µg/kg wet	66.5	6670		86	40-140		
Benzo (b) fluoranthene	4600		µg/kg wet	66.5	6670		69	40-140		
Benzo (k) fluoranthene	6280		µg/kg wet	66.5	6670		94	40-140		
Benzo (a) pyrene	5280		µg/kg wet	66.5	6670		79	40-140		
Indeno (1,2,3-cd) pyrene	5900		µg/kg wet	66.5	6670		88	40-140		
Dibenzo (a,h) anthracene	5870		µg/kg wet	66.5	6670		88	40-140		
Benzo (g,h,i) perylene	6020		µg/kg wet	66.5	6670		90	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
Surrogate: 1-Chlorooctadecane	2260		µg/kg wet		3330		68	40-140		
Surrogate: Ortho-Terphenyl	2900		µg/kg wet		3330		87	40-140		

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7051531 - SW846 3545A										
<u>LCS (7051531-BS1)</u>										
Prepared: 21-May-07 Analyzed: 22-May-07										
Surrogate: 2-Bromonaphthalene	1180		µg/kg wet		2670		44	40-140		
Surrogate: 2-Fluorobiphenyl	2550		µg/kg wet		2670		96	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>Fractionation Check Standard (705153)</u>										
Prepared: 21-May-07 Analyzed: 22-May-07										
C9-C18 Aliphatic Hydrocarbons	31.7		mg/kg wet	13.4	40.0		79	40-140		
C19-C36 Aliphatic Hydrocarbons	35.9		mg/kg wet	13.4	53.3		67	40-140		
C11-C22 Aromatic Hydrocarbons	94.7		mg/kg wet	13.4	113		84	40-140		
Naphthalene	3900		µg/kg wet	66.5	6670		58	40-140		
2-Methylnaphthalene	4640		µg/kg wet	66.5	6670		70	40-140		
Acenaphthylene	4840		µg/kg wet	66.5	6670		73	40-140		
Acenaphthene	5170		µg/kg wet	66.5	6670		78	40-140		
Fluorene	5450		µg/kg wet	66.5	6670		82	40-140		
Phenanthrene	5670		µg/kg wet	66.5	6670		85	40-140		
Anthracene	5880		µg/kg wet	66.5	6670		88	40-140		
Fluoranthene	6140		µg/kg wet	66.5	6670		92	40-140		
Pyrene	6200		µg/kg wet	66.5	6670		93	40-140		
Benzo (a) anthracene	5360		µg/kg wet	66.5	6670		80	40-140		
Chrysene	6050		µg/kg wet	66.5	6670		91	40-140		
Benzo (b) fluoranthene	4350		µg/kg wet	66.5	6670		65	40-140		
Benzo (k) fluoranthene	5630		µg/kg wet	66.5	6670		84	40-140		
Benzo (a) pyrene	5890		µg/kg wet	66.5	6670		88	40-140		
Indeno (1,2,3-cd) pyrene	5670		µg/kg wet	66.5	6670		85	40-140		
Dibenzo (a,h) anthracene	5620		µg/kg wet	66.5	6670		84	40-140		
Benzo (g,h,i) perylene	6030		µg/kg wet	66.5	6670		90	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
Surrogate: 1-Chlorooctadecane	2030		µg/kg wet		3330		61	40-140		
Surrogate: Ortho-Terphenyl	3000		µg/kg wet		3330		90	40-140		
Surrogate: 2-Bromonaphthalene	1250		µg/kg wet		2670		47	40-140		
Surrogate: 2-Fluorobiphenyl	2110		µg/kg wet		2670		79	40-140		
<u>LCS Dup (7051531-BSD1)</u>										
Prepared: 21-May-07 Analyzed: 22-May-07										
C9-C18 Aliphatic Hydrocarbons	30.9		mg/kg wet	13.4	40.0		77	40-140	7	25
C19-C36 Aliphatic Hydrocarbons	32.6		mg/kg wet	13.4	53.3		61	40-140	0	25
C11-C22 Aromatic Hydrocarbons	86.7		mg/kg wet	13.4	113		77	40-140	0	25
Naphthalene	2840		µg/kg wet	66.5	6670		43	40-140	0	30
2-Methylnaphthalene	3630		µg/kg wet	66.5	6670		54	40-140	4	30
Acenaphthylene	3910		µg/kg wet	66.5	6670		59	40-140	0	30
Acenaphthene	4260		µg/kg wet	66.5	6670		64	40-140	0	30
Fluorene	4780		µg/kg wet	66.5	6670		72	40-140	0	30
Phenanthrene	5400		µg/kg wet	66.5	6670		81	40-140	0	30
Anthracene	5460		µg/kg wet	66.5	6670		82	40-140	2	30
Fluoranthene	5950		µg/kg wet	66.5	6670		89	40-140	0	30
Pyrene	6030		µg/kg wet	66.5	6670		90	40-140	1	30
Benzo (a) anthracene	5070		µg/kg wet	66.5	6670		76	40-140	6	30
Chrysene	5570		µg/kg wet	66.5	6670		84	40-140	2	30
Benzo (b) fluoranthene	4210		µg/kg wet	66.5	6670		63	40-140	9	30
Benzo (k) fluoranthene	5170		µg/kg wet	66.5	6670		78	40-140	19	30
Benzo (a) pyrene	5440		µg/kg wet	66.5	6670		82	40-140	4	30

This laboratory report is not valid without an authorized signature on the cover page.

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7051531 - SW846 3545A										
LCS Dup (7051531-BSD1)										
Prepared: 21-May-07 Analyzed: 22-May-07										
Indeno (1,2,3-cd) pyrene	5540		µg/kg wet	66.5	6670		83	40-140	6	30
Dibenzo (a,h) anthracene	5510		µg/kg wet	66.5	6670		83	40-140	6	30
Benzo (g,h,i) perylene	6170		µg/kg wet	66.5	6670		93	40-140	3	30
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		200
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		200
Surrogate: 1-Chlorooctadecane	2280		µg/kg wet		3330		68	40-140		
Surrogate: Ortho-Terphenyl	2890		µg/kg wet		3330		87	40-140		
Surrogate: 2-Bromonaphthalene	1480		µg/kg wet		2670		55	40-140		
Surrogate: 2-Fluorobiphenyl	2260		µg/kg wet		2670		85	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7051752 - General Preparation										
Duplicate (7051752-DUP1) Source: SA62191-01										
Prepared & Analyzed: 23-May-07										
% Solids	95.4		%			95.2			0.2	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0705568				
Calibration Check (0705568-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.29467E+11	1.46016E+08	12.8	25.00
C19-C36 Aliphatic Hydrocarbons	1.14918E+11	1.06758E+08	-11.6	25.00
C11-C22 Aromatic Hydrocarbons	17797.1	17.8601	0.581	25.00
Naphthalene	7.49143	6.56879	-12.3	20.00
2-Methylnaphthalene	4.34714	4.40096	1.24	20.00
Acenaphthylene	6.64623	6.33736	-4.65	20.00
Acenaphthene	4.18836	4.06793	-2.88	20.00
Fluorene	4.85243	4.80335	3.24	20.00
Phenanthrene	6.2823	6.47214	3.02	20.00
Anthracene	6.39254	6.83933	6.99	20.00
Fluoranthene	6.42075	7.39047	15.1	20.00
Pyrene	6.58194	7.68301	16.7	20.00
Benzo (a) anthracene	5.48335	6.01306	9.66	20.00
Chrysene	5.33975	6.26299	17.3	20.00
Benzo (b) fluoranthene	4.95865	4.91637	-0.853	20.00
Benzo (k) fluoranthene	4.81973	5.72566	18.8	20.00
Benzo (a) pyrene	4.62819	5.47702	18.3	20.00
Indeno (1,2,3-cd) pyrene	4.6884	5.54877	18.4	20.00
Dibenzo (a,h) anthracene	3.88281	4.65464	19.9	20.00
Benzo (g,h,i) perylene	4.14106	4.90274	18.4	20.00
5-alpha-Androstane	3807840	1	-100	
5-alpha-Androstane	3807.84	1	-100	

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* Reportable Detection Limit BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0705568				
Calibration Check (0705568-CCV2)				
C9-C18 Aliphatic Hydrocarbons	1.29467E+11	1.42275E+08	9.83	25.00
C19-C36 Aliphatic Hydrocarbons	1.14918E+11	9.63853E+07	-20.2	25.00
C11-C22 Aromatic Hydrocarbons	17797.1	13.2347	0.581	25.00
Naphthalene	7.49143	6.4848	-13.4	20.00
2-Methylnaphthalene	4.34714	4.301	-1.06	20.00
Acenaphthylene	6.64623	6.18843	-6.89	20.00
Acenaphthene	4.18836	4.0032	-4.42	20.00
Fluorene	4.65243	4.56799	-1.81	20.00
Phenanthrene	6.2823	6.12157	-2.56	20.00
Anthracene	6.39254	6.36329	-0.458	20.00
Fluoranthene	6.42075	6.68815	4.16	20.00
Pyrene	6.58194	6.82851	3.72	20.00
Benzo (a) anthracene	5.48335	5.38537	-2.15	20.00
Chrysene	5.33975	5.51205	3.23	20.00
Benzo (b) fluoranthene	4.95865	4.81922	-2.81	20.00
Benzo (k) fluoranthene	4.81973	4.90051	1.68	20.00
Benzo (a) pyrene	4.62819	4.96017	7.17	20.00
Indeno (1,2,3-cd) pyrene	4.6884	5.41018	15.4	20.00
Dibenzo (a,h) anthracene	3.88281	4.50232	16.0	20.00
Benzo (g,h,i) perylene	4.14106	4.78335	15.5	20.00
5-alpha-Androstane	3807.84	1	-100	
5-alpha-Androstane	3807840	1	-100	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 8 of 12

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0705620				
Calibration Check (0705620-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.29467E+11	1.48054E+08	14.3	25.00
C19-C36 Aliphatic Hydrocarbons	1.14918E+11	9.88094E+07	-18.2	25.00
C11-C22 Aromatic Hydrocarbons	17797.1	15.2197	-14.5	25.00
Naphthalene	7.49143	6.44225	-14.0	20.00
2-Methylnaphthalene	4.34714	4.18273	-3.78	20.00
Acenaphthylene	6.64623	6.06899	-8.69	20.00
Acenaphthene	4.18836	3.9192	-6.43	20.00
Fluorene	4.65243	4.46009	-4.13	20.00
Phenanthrene	6.2823	6.07224	-3.34	20.00
Anthracene	6.39254	6.30819	-1.32	20.00
Fluoranthene	6.42075	6.61377	3.01	20.00
Pyrene	6.58194	6.77041	2.86	20.00
Benzo (a) anthracene	5.48335	5.22828	-4.65	20.00
Chrysene	5.33975	5.39703	1.07	20.00
Benzo (b) fluoranthene	4.95865	5.03567	1.55	20.00
Benzo (k) fluoranthene	4.81973	4.74526	-1.55	20.00
Benzo (a) pyrene	4.62819	4.98185	7.64	20.00
Indeno (1,2,3-cd) pyrene	4.6884	5.36375	14.4	20.00
Dibenzo (a,h) anthracene	3.88281	4.43228	14.2	20.00
Benzo (g,h,i) perylene	4.14106	4.66967	12.8	20.00
5-alpha-Androstane	3807840	1	-100	
5-alpha-Androstane	3807.84	1	-100	

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* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Christopher Hall

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt

Matrix	Soil			
Containers	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Broken	<input type="checkbox"/> Leaking	
Aqueous Preservative	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> pH \leq 2	<input type="checkbox"/> pH $>$ 2 <input type="checkbox"/> pH adjusted to $<$ 2 in lab	Comment:
Temperature	<input type="checkbox"/> Received on ice	<input checked="" type="checkbox"/> Received at 4 ± 2 °C	<input type="checkbox"/> Other:	°C

Were all QA/QC procedures followed as required by the EPH method? *Yes*

Were any significant modifications made to the EPH method as specified in Section 11.3? *No*

Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*

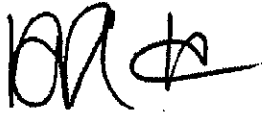
I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete

Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA		Project #: 4953			
Project Location: 200 Trapelo Rd - Waltham, MA		MADEP RTN ¹ :			
This form provides certifications for the following data set SA62307-01 through SA62307-02					
Sample matrices:	Soil				
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide(PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte					
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
<p>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</p> <div style="text-align: right; margin-top: 20px;">  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 5/24/2007 </div>					

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Reporting
HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

SALE 2307m

Report To: Brian Klingler

Invoice To: Same

Project No.: 4953

Conoco

Site Name: 200 Trapp Road

Location: Waltham State: MA

4 First Street

Location: Waltham

Sampler(s): FJC

Bridgewater MA 02324

P.O. No.: 4953 RQN: _____

Analyses: _____

Project Mgr.: Brian Klingler

Containers: _____

Analyses: _____

QA Reporting Notes: (check if needed)

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Ice 10=_____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____
 X2=_____
 X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses	QA Reporting Notes:
SALE 2307-01	GP-01/52135	5/17/07	1:10 pm	C	SG	9	1					<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards:
	102-69-02/SG(3-15)	5/17/07	2:00 pm	C	SO	9	1					

Fax results when available to SOB, 697-5996

E-mail to fcianpa@conoco.com

EDD Format _____

Condition upon receipt: Iced Ambient RT

Relinquished by:

Received by:

[Signature]

[Signature]

Date:

Time:

5/18/07 1235

5-18-07 1320

Report Date:
01-Jun-07 13:45



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY
Laboratory Report

- Final Report
 Re-Issued Report
 Revised Report

Coneco Environmental
4 First Street
Bridgewater, MA 02324
Attn: Brian F. Klingler

Project: 200 Trapelo Rd - Waltham, MA
Project 4953

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA62714-01	MW-1	Ground Water	24-May-07 15:30	25-May-07 14:50
SA62714-02	MW-2	Ground Water	24-May-07 15:10	25-May-07 14:50
SA62714-03	MW-3	Ground Water	24-May-07 13:50	25-May-07 14:50
SA62714-04	MW-4	Ground Water	24-May-07 13:30	25-May-07 14:50
SA62714-05	MW-B1	Ground Water	24-May-07 14:25	25-May-07 14:50
SA62714-06	MW-B2	Ground Water	24-May-07 14:40	25-May-07 14:50
SA62714-07	MW-B3	Ground Water	24-May-07 14:50	25-May-07 14:50
SA62714-08	CMW-1	Ground Water	24-May-07 14:15	25-May-07 14:50
SA62714-09	CMW-2	Ground Water	24-May-07 12:55	25-May-07 14:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met

Please note that this report contains 19 pages of analytical data plus Chain of Custody document(s).

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

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New Jersey # MA011/MA012
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NH-2972, NY-11840, FL-E87936, and NJ-MA012).

CASE NARRATIVE:

The data set for this work order complies with internal QC criteria for the methods performed. The samples were received @ 4.3 degrees Celsius. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM), which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits. Please refer to "Notes and Definitions" for all sample/analyte qualifiers. Qualifiers will narrate any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

Sample Identification
 MW-I
 SA62714-01

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 15:30

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
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Extractable Petroleum Hydrocarbons

EPH Aliphatic/Aromatic Ranges

Prepared by method SW846 3510C

C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004	30-May-07	31-May-07	7052181	jd
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	R				
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1					
Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1					
Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1					
Unadjusted Total Petroleum	BRL		mg/l	0.2	1					

EPH Target PAH Analytes

Prepared by method SW846 3510C

11-20-3	Naphthalene	BRL		µg/l	5.75	1				
91-57-8	2-Methylnaphthalene	BRL		µg/l	5.75	1				
208-98-8	Acenaphthylene	BRL		µg/l	5.75	1				
3-32-9	Acenaphthene	BRL		µg/l	5.75	1				
6-73-7	Fluorene	BRL		µg/l	5.75	1				
85-01-8	Phenanthrene	BRL		µg/l	5.75	1				
20-12-7	Anthracene	BRL		µg/l	5.75	1				
08-44-0	Fluoranthene	BRL		µg/l	5.75	1				
129-00-0	Pyrene	BRL		µg/l	5.75	1				
86-55-3	Benzo (a) anthracene	BRL		µg/l	5.75	1				
18-01-9	Chrysene	BRL		µg/l	5.75	1				
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.75	1				
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.75	1				
0-32-8	Benzo (a) pyrene	BRL		µg/l	5.75	1				
83-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.75	1				
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.75	1				
81-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.75	1				

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	49			40-140 %					
94-15-1	Ortho-Terphenyl	70			40-140 %					
80-13-2	2-Bromonaphthalene	41			40-140 %					
321-60-8	2-Fluorobiphenyl	63			40-140 %					

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 19

Sample Identification
 MW-2
 SA62714-02

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 15:10

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004	30-May-07	31-May-07	7052181	jd
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1					
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1					
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1					
EPH Target PAH Analytes											
Prepared by method SW846 3510C											
11-20-3	Naphthalene	BRL		µg/l	6.67	1					
81-57-6	2-Methylnaphthalene	BRL		µg/l	6.67	1					
208-96-8	Acenaphthylene	BRL		µg/l	6.67	1					
13-32-9	Acenaphthene	BRL		µg/l	6.67	1					
6-73-7	Fluorene	BRL		µg/l	6.67	1					
85-01-8	Phenanthrene	BRL		µg/l	6.67	1					
120-12-7	Anthracene	BRL		µg/l	6.67	1					
108-44-0	Fluoranthene	BRL		µg/l	6.67	1					
129-00-0	Pyrene	BRL		µg/l	6.67	1					
56-55-3	Benzo (a) anthracene	BRL		µg/l	6.67	1					
118-01-9	Chrysene	BRL		µg/l	6.67	1					
105-99-2	Benzo (b) fluoranthene	BRL		µg/l	6.67	1					
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	6.67	1					
10-32-8	Benzo (a) pyrene	BRL		µg/l	6.67	1					
93-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	6.67	1					
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	6.67	1					
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	6.67	1					
Surrogate recoveries:											
3386-33-2	1-Chlorooctadecane	56			40-140 %						
94-15-1	Ortho-Terphenyl	77			40-140 %						
80-13-2	2-Bromonaphthalene	29	SGC		40-140 %						
321-60-8	2-Fluorobiphenyl	90			40-140 %						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 19

Sample Identification
 MW-3
 SA62714-03

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 13:50

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
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Extractable Petroleum Hydrocarbons

EPH Aliphatic/Aromatic Ranges

Prepared by method SW846 3510C

C9-C18 Aliphatic Hydrocarbons	BRL			mg/l	0.2	1	+MADEP EPH 5/2004 R	30-May-07	31-May-07	7052181	jd
C19-C36 Aliphatic Hydrocarbons	BRL			mg/l	0.2	1	"	"	"	"	"
C11-C22 Aromatic Hydrocarbons	BRL			mg/l	0.2	1	"	"	"	"	"
Unadjusted C11-C22 Aromatic	BRL			mg/l	0.2	1	"	"	"	"	"
Total Petroleum Hydrocarbons	BRL			mg/l	0.2	1	"	"	"	"	"
Unadjusted Total Petroleum	BRL			mg/l	0.2	1	"	"	"	"	"

EPH Target PAH Analytes

Prepared by method SW846 3510C

11-20-3	Naphthalene	BRL		µg/l	5.38	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.38	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/l	5.38	1	"	"	"	"	"
3-32-9	Acenaphthene	BRL		µg/l	5.38	1	"	"	"	"	"
8-73-7	Fluorene	BRL		µg/l	5.38	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/l	5.38	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/l	5.38	1	"	"	"	"	"
106-44-0	Fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/l	5.38	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.38	1	"	"	"	"	"
18-01-9	Chrysene	BRL		µg/l	5.38	1	"	"	"	"	"
105-89-2	Benzo (b) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.38	1	"	"	"	"	"
0-32-8	Benzo (a) pyrene	BRL		µg/l	5.38	1	"	"	"	"	"
93-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.38	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.38	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.38	1	"	"	"	"	"

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	50			40-140 %		"	"	"	"	"
94-15-1	Ortho-Terphenyl	82			40-140 %		"	"	"	"	"
80-13-2	2-Bromonaphthalene	58			40-140 %		"	"	"	"	"
321-60-8	2-Fluorobiphenyl	77			40-140 %		"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
 MW-4
 SA62714-04

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 13:30

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004	30-May-07	01-Jun-07	7052181	jd
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1					
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1					
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1					
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
14-20-3	Naphthalene	BRL		µg/l	5.43	1					
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.43	1					
208-96-8	Acenaphthylene	BRL		µg/l	5.43	1					
3-32-9	Acenaphthene	BRL		µg/l	5.43	1					
8-73-7	Fluorene	BRL		µg/l	5.43	1					
85-01-8	Phenanthrene	BRL		µg/l	5.43	1					
20-12-7	Anthracene	BRL		µg/l	5.43	1					
08-44-0	Fluoranthene	BRL		µg/l	5.43	1					
129-00-0	Pyrene	BRL		µg/l	5.43	1					
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.43	1					
18-01-9	Chrysene	BRL		µg/l	5.43	1					
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.43	1					
207-06-9	Benzo (k) fluoranthene	BRL		µg/l	5.43	1					
0-32-8	Benzo (a) pyrene	BRL		µg/l	5.43	1					
33-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.43	1					
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.43	1					
31-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.43	1					
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	51			40-140 %						
14-15-1	Ortho-Terphenyl	78			40-140 %						
90-13-2	2-Bromonaphthalene	41			40-140 %						
321-60-8	2-Fluorobiphenyl	75			40-140 %						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification
 MW-B1
 SA62714-05

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 14:25

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004 R	30-May-07	01-Jun-07	7052181	jd
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1					
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1					
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1					
EPH Target PAH Analytes											
Prepared by method SW846 3510C											
11-20-3	Naphthalene	BRL		µg/l	5.56	1					
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.56	1					
208-96-8	Acenaphthylene	BRL		µg/l	5.56	1					
3-32-9	Acenaphthene	BRL		µg/l	5.56	1					
18-73-7	Fluorene	BRL		µg/l	5.56	1					
85-01-8	Phenanthrene	BRL		µg/l	5.56	1					
20-12-7	Anthracene	BRL		µg/l	5.56	1					
08-44-0	Fluoranthene	BRL		µg/l	5.56	1					
129-00-0	Pyrene	BRL		µg/l	5.56	1					
58-55-3	Benzo (a) anthracene	BRL		µg/l	5.56	1					
18-01-9	Chrysene	BRL		µg/l	5.56	1					
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.56	1					
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.56	1					
0-32-8	Benzo (a) pyrene	BRL		µg/l	5.56	1					
93-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.56	1					
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.56	1					
91-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.56	1					
Surrogate recoveries:											
3386-33-2	1-Chlorooctadecane	62			40-140 %						
74-15-1	Ortho-Terphenyl	81			40-140 %						
80-13-2	2-Bromonaphthalene	56			40-140 %						
321-60-8	2-Fluorobiphenyl	71			40-140 %						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
 MW-B2
 SA62714-06

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 14:40

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004 R	30-May-07	01-Jun-07	7052181	jd
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	"	"	"	"	"
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1	"	"	"	"	"
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
11-20-3	Naphthalene	BRL		µg/l	5.43	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.43	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/l	5.43	1	"	"	"	"	"
3-32-9	Acenaphthene	BRL		µg/l	5.43	1	"	"	"	"	"
16-73-7	Fluorene	BRL		µg/l	5.43	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/l	5.43	1	"	"	"	"	"
20-12-7	Anthracene	BRL		µg/l	5.43	1	"	"	"	"	"
106-44-0	Fluoranthene	BRL		µg/l	5.43	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/l	5.43	1	"	"	"	"	"
18-55-3	Benzo (a) anthracene	BRL		µg/l	5.43	1	"	"	"	"	"
18-01-9	Chrysene	BRL		µg/l	5.43	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.43	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.43	1	"	"	"	"	"
0-32-6	Benzo (a) pyrene	BRL		µg/l	5.43	1	"	"	"	"	"
93-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.43	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.43	1	"	"	"	"	"
91-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.43	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	64			40-140 %		"	"	"	"	"
4-15-1	Ortho-Terphenyl	80			40-140 %		"	"	"	"	"
80-13-2	2-Bromonaphthalene	56			40-140 %		"	"	"	"	"
321-80-8	2-Fluorobiphenyl	75			40-140 %		"	"	"	"	"

Sample Identification
 MW-B3
 SA62714-07

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 14:50

Received
 25-May-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004 R	30-May-07	01-Jun-07	7052181	jd
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1					
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1					
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1					
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1					
EPH Target PAH Analytes											
Prepared by method SW846 3510C											
11-20-3	Naphthalene	BRL		µg/l	5.81	1					
81-57-6	2-Methylnaphthalene	BRL		µg/l	5.81	1					
208-96-8	Acenaphthylene	BRL		µg/l	5.81	1					
13-32-9	Acenaphthene	BRL		µg/l	5.81	1					
16-73-7	Fluorene	BRL		µg/l	5.81	1					
85-01-8	Phenanthrene	BRL		µg/l	5.81	1					
20-12-7	Anthracene	BRL		µg/l	5.81	1					
106-44-0	Fluoranthene	BRL		µg/l	5.81	1					
129-00-0	Pyrene	BRL		µg/l	5.81	1					
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.81	1					
118-01-9	Chrysene	BRL		µg/l	5.81	1					
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.81	1					
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.81	1					
10-32-8	Benzo (a) pyrene	BRL		µg/l	5.81	1					
83-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.81	1					
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.81	1					
91-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.81	1					
Surrogate recoveries:											
3386-33-2	1-Chlorooctadecane	41			40-140 %						
74-15-1	Ortho-Terphenyl	51			40-140 %						
80-13-2	2-Bromonaphthalene	44			40-140 %						
321-60-8	2-Fluorobiphenyl	81			40-140 %						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample IdentificationCMW-1
SA62714-08Client Project #
4953Matrix
Ground WaterCollection Date/Time
24-May-07 14:15Received
25-May-07

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004	30-May-07	01-Jun-07	7052181	jd
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
	Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1	.	.	.	.	.
	Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
	Unadjusted Total Petroleum	BRL		mg/l	0.2	1	.	.	.	.	.
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
11-20-3	Naphthalene	BRL		µg/l	5.56	1	.	.	.	.	.
91-57-6	2-Methylnaphthalene	BRL		µg/l	5.56	1	.	.	.	.	.
208-96-8	Acenaphthylene	BRL		µg/l	5.56	1	.	.	.	.	.
3-32-9	Acenaphthene	BRL		µg/l	5.56	1	.	.	.	.	.
18-73-7	Fluorene	BRL		µg/l	5.56	1	.	.	.	.	.
85-01-6	Phenanthrene	BRL		µg/l	5.56	1	.	.	.	.	.
20-12-7	Anthracene	BRL		µg/l	5.56	1	.	.	.	.	.
06-44-0	Fluoranthene	BRL		µg/l	5.56	1	.	.	.	.	.
129-00-0	Pyrene	BRL		µg/l	5.56	1	.	.	.	.	.
56-55-3	Benzo (a) anthracene	BRL		µg/l	5.56	1	.	.	.	.	.
18-01-9	Chrysene	BRL		µg/l	5.56	1	.	.	.	.	.
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	5.56	1	.	.	.	.	.
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	5.56	1	.	.	.	.	.
1-32-8	Benzo (a) pyrene	BRL		µg/l	5.56	1	.	.	.	.	.
33-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.56	1	.	.	.	.	.
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	5.56	1	.	.	.	.	.
31-24-2	Benzo (g,h,i) perylene	BRL		µg/l	5.56	1	.	.	.	.	.
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	69			40-140 %		.	.	.	.	.
14-15-1	Ortho-Terphenyl	76			40-140 %	
30-13-2	2-Bromonaphthalene	56			40-140 %	
321-60-8	2-Fluorobiphenyl	82			40-140 %	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification
 CMW-2
 SA62714-09

Client Project #
 4953

Matrix
 Ground Water

Collection Date/Time
 24-May-07 12:55

Received
 25-May-07

<u>CAS No. Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>
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Extractable Petroleum Hydrocarbons

EPH Aliphatic/Aromatic Ranges

Prepared by method SW846 3510C

C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	+MADEP EPH 5/2004 R	30-May-07	01-Jun-07	7052181	jd
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
Unadjusted C11-C22 Aromatic	BRL		mg/l	0.2	1	.	.	.	.	.
Total Petroleum Hydrocarbons	BRL		mg/l	0.2	1	.	.	.	.	.
Unadjusted Total Petroleum	BRL		mg/l	0.2	1	.	.	.	.	.

EPH Target PAH Analytes

Prepared by method SW846 3510C

11-20-3 Naphthalene	BRL		µg/l	5.62	1	.	.	.	.	.
91-57-6 2-Methylnaphthalene	BRL		µg/l	5.62	1	.	.	.	.	.
208-96-8 Acenaphthylene	BRL		µg/l	5.62	1	.	.	.	.	.
3-32-8 Acenaphthene	BRL		µg/l	5.62	1	.	.	.	.	.
18-73-7 Fluorene	BRL		µg/l	5.62	1	.	.	.	.	.
85-01-8 Phenanthrene	BRL		µg/l	5.62	1	.	.	.	.	.
20-12-7 Anthracene	BRL		µg/l	5.62	1	.	.	.	.	.
106-44-0 Fluoranthene	BRL		µg/l	5.62	1	.	.	.	.	.
129-00-0 Pyrene	BRL		µg/l	5.62	1	.	.	.	.	.
156-55-3 Benzo (a) anthracene	BRL		µg/l	5.62	1	.	.	.	.	.
18-01-9 Chrysene	BRL		µg/l	5.62	1	.	.	.	.	.
205-99-2 Benzo (b) fluoranthene	BRL		µg/l	5.62	1	.	.	.	.	.
207-08-9 Benzo (k) fluoranthene	BRL		µg/l	5.62	1	.	.	.	.	.
10-32-8 Benzo (a) pyrene	BRL		µg/l	5.62	1	.	.	.	.	.
133-39-5 Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.62	1	.	.	.	.	.
53-70-3 Dibenzo (a,h) anthracene	BRL		µg/l	5.62	1	.	.	.	.	.
31-24-2 Benzo (g,h,i) perylene	BRL		µg/l	5.62	1	.	.	.	.	.

Surrogate recoveries:

3386-33-2 1-Chlorooctadecane	63			40-140 %		.	.	.	.	.
14-15-1 Ortho-Terphenyl	73			40-140 %	
90-13-2 2-Bromonaphthalene	44			40-140 %	
321-60-8 2-Fluorobiphenyl	73			40-140 %	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7052181 - SW846 3510C										
Blank (7052181-BLK1)										
Prepared: 30-May-07 Analyzed: 31-May-07										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.2						
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2						
Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.2						
Naphthalene	BRL		µg/l	2.50						
2-Methylnaphthalene	BRL		µg/l	2.50						
Acenaphthylene	BRL		µg/l	2.50						
Acenaphthene	BRL		µg/l	2.50						
Fluorene	BRL		µg/l	2.50						
Phenanthrene	BRL		µg/l	2.50						
Anthracene	BRL		µg/l	2.50						
Fluoranthene	BRL		µg/l	2.50						
Pyrene	BRL		µg/l	2.50						
Benzo (a) anthracene	BRL		µg/l	2.50						
Chrysene	BRL		µg/l	2.50						
Benzo (b) fluoranthene	BRL		µg/l	2.50						
Benzo (k) fluoranthene	BRL		µg/l	2.50						
Benzo (a) pyrene	BRL		µg/l	2.50						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	2.50						
Dibenzo (a,h) anthracene	BRL		µg/l	2.50						
Benzo (g,h,i) perylene	BRL		µg/l	2.50						
n-Hexadecane	0.00		µg/l							
n-Tetradecane	0.00		µg/l							
n-Eicosane	0.00		µg/l							
n-Nonadecane	0.00		µg/l							
n-Octacosane	0.00		µg/l							
Naphthalene (aliphatic fraction)	0.00		µg/l							
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l							
Surrogate: 1-Chlorooctadecane	27.3		µg/l		50.0		55	40-140		
Surrogate: Ortho-Terphenyl	27.3		µg/l		50.0		55	40-140		
Surrogate: 2-Bromonaphthalene	18.7		µg/l		40.0		47	40-140		
Surrogate: 2-Fluorobiphenyl	21.1		µg/l		40.0		53	40-140		
LCS (7052181-BS1)										
Prepared: 30-May-07 Analyzed: 31-May-07										
C9-C18 Aliphatic Hydrocarbons	0.329		mg/l	0.2	0.600		55	40-140		
C19-C36 Aliphatic Hydrocarbons	0.417		mg/l	0.2	0.800		52	40-140		
C11-C22 Aromatic Hydrocarbons	1.06		mg/l	0.2	1.70		62	40-140		
Naphthalene	40.3		µg/l	2.50	100		40	40-140		
2-Methylnaphthalene	43.3		µg/l	2.50	100		43	40-140		
Acenaphthylene	48.8		µg/l	2.50	100		49	40-140		
Acenaphthene	50.7		µg/l	2.50	100		51	40-140		
Fluorene	55.6		µg/l	2.50	100		56	40-140		
Phenanthrene	58.2		µg/l	2.50	100		58	40-140		
Anthracene	63.2		µg/l	2.50	100		63	40-140		
Fluoranthene	66.6		µg/l	2.50	100		67	40-140		
Pyrene	67.8		µg/l	2.50	100		68	40-140		
Benzo (a) anthracene	61.8		µg/l	2.50	100		62	40-140		
Chrysene	81.2		µg/l	2.50	100		81	40-140		
Benzo (b) fluoranthene	66.1		µg/l	2.50	100		66	40-140		
Benzo (k) fluoranthene	75.7		µg/l	2.50	100		76	40-140		
Benzo (a) pyrene	69.7		µg/l	2.50	100		70	40-140		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7052181 - SW846 3510C										
LCS (7052181-BS1)										
Prepared: 30-May-07 Analyzed: 31-May-07										
Indeno (1,2,3-cd) pyrene	62.5		µg/l	2.50	100		62	40-140		
Dibenzo (a,h) anthracene	59.5		µg/l	2.50	100		60	40-140		
Benzo (g,h,i) perylene	64.7		µg/l	2.50	100		65	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
Surrogate: 1-Chlorooctadecane	25.8		µg/l		50.0		52	40-140		
Surrogate: Ortho-Terphenyl	33.8		µg/l		50.0		68	40-140		
Surrogate: 2-Bromonaphthalene	23.0		µg/l		40.0		58	40-140		
Surrogate: 2-Fluorobiphenyl	27.2		µg/l		40.0		68	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS (7052181-BS2)										
Prepared & Analyzed: 30-May-07										
C9-C18 Aliphatic Hydrocarbons	0.489		mg/l	0.2	0.600		81	40-140		
C19-C36 Aliphatic Hydrocarbons	0.483		mg/l	0.2	0.800		60	40-140		
C11-C22 Aromatic Hydrocarbons	1.25		mg/l	0.2	1.70		74	40-140		
Naphthalene	51.2		µg/l	2.50	100		51	40-140		
2-Methylnaphthalene	57.6		µg/l	2.50	100		58	40-140		
Acenaphthylene	62.2		µg/l	2.50	100		62	40-140		
Acenaphthene	62.5		µg/l	2.50	100		62	40-140		
Fluorene	66.6		µg/l	2.50	100		67	40-140		
Phenanthrene	68.9		µg/l	2.50	100		69	40-140		
Anthracene	70.0		µg/l	2.50	100		70	40-140		
Fluoranthene	79.4		µg/l	2.50	100		79	40-140		
Pyrene	79.0		µg/l	2.50	100		79	40-140		
Benzo (a) anthracene	76.9		µg/l	2.50	100		77	40-140		
Chrysene	91.6		µg/l	2.50	100		92	40-140		
Benzo (b) fluoranthene	72.7		µg/l	2.50	100		73	40-140		
Benzo (k) fluoranthene	90.7		µg/l	2.50	100		91	40-140		
Benzo (a) pyrene	80.6		µg/l	2.50	100		81	40-140		
Indeno (1,2,3-cd) pyrene	75.6		µg/l	2.50	100		76	40-140		
Dibenzo (a,h) anthracene	68.1		µg/l	2.50	100		68	40-140		
Benzo (g,h,i) perylene	75.6		µg/l	2.50	100		76	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
Surrogate: 1-Chlorooctadecane	24.3		µg/l		50.0		49	40-140		
Surrogate: Ortho-Terphenyl	38.4		µg/l		50.0		77	40-140		
Surrogate: 2-Bromonaphthalene	31.5		µg/l		40.0		79	40-140		
Surrogate: 2-Fluorobiphenyl	34.4		µg/l		40.0		86	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS Dup (7052181-BSD1)										
Prepared: 30-May-07 Analyzed: 31-May-07										
C9-C18 Aliphatic Hydrocarbons	0.353		mg/l	0.2	0.600		59	40-140	7	25
C19-C36 Aliphatic Hydrocarbons	0.441		mg/l	0.2	0.800		55	40-140	6	25
C11-C22 Aromatic Hydrocarbons	1.10		mg/l	0.2	1.70		65	40-140	5	25
Naphthalene	35.8	QC1	µg/l	2.50	100		36	40-140	11	20
2-Methylnaphthalene	41.9		µg/l	2.50	100		42	40-140	2	20
Acenaphthylene	48.8		µg/l	2.50	100		49	40-140	0	20
Acenaphthene	49.4		µg/l	2.50	100		49	40-140	4	20
Fluorene	53.5		µg/l	2.50	100		54	40-140	4	20
Phenanthrene	58.4		µg/l	2.50	100		58	40-140	0	20

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* Reportable Detection Limit

BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7052181 - SW846 3510C										
LCS Dup (7052181-BSD1)										
Prepared: 30-May-07 Analyzed: 31-May-07										
Anthracene	62.0		µg/l	2.50	100		62	40-140	2	20
Fluoranthene	67.8		µg/l	2.50	100		68	40-140	1	20
Pyrene	70.5		µg/l	2.50	100		70	40-140	3	20
Benzo (a) anthracene	71.1		µg/l	2.50	100		71	40-140	14	20
Chrysene	78.7		µg/l	2.50	100		79	40-140	2	20
Benzo (b) fluoranthene	65.1		µg/l	2.50	100		65	40-140	2	20
Benzo (k) fluoranthene	88.1		µg/l	2.50	100		88	40-140	15	20
Benzo (a) pyrene	76.4		µg/l	2.50	100		76	40-140	8	20
Indeno (1,2,3-cd) pyrene	68.5		µg/l	2.50	100		68	40-140	9	20
Dibenzo (a,h) anthracene	66.0		µg/l	2.50	100		66	40-140	10	20
Benzo (g,h,i) perylene	69.2		µg/l	2.50	100		69	40-140	6	20
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		200
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		200
Surrogate: 1-Chlorooctadecane	24.4		µg/l		50.0		49	40-140		
Surrogate: Ortho-Terphenyl	33.1		µg/l		50.0		66	40-140		
Surrogate: 2-Bromonaphthalene	26.9		µg/l		40.0		67	40-140		
Surrogate: 2-Fluorobiphenyl	30.2		µg/l		40.0		76	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0705757				
Calibration Check (0705757-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.29467E+11	1.45018E+08	12.0	25.00
C19-C36 Aliphatic Hydrocarbons	1.14918E+11	1.03449E+08	-14.5	25.00
C11-C22 Aromatic Hydrocarbons	17797.1	15.4119	-13.4	25.00
Naphthalene	7.49143	6.29844	-15.9	20.00
2-Methylnaphthalene	4.34714	3.87159	-10.9	20.00
Acenaphthylene	6.64623	6.18223	-6.98	20.00
Acenaphthene	4.18836	3.80421	-9.17	20.00
Fluorene	4.65243	4.2198	-9.30	20.00
Phenanthrene	6.2823	5.66621	-8.81	20.00
Anthracene	6.39254	6.00379	-6.08	20.00
Fluoranthene	6.42075	6.34116	-1.24	20.00
Pyrene	6.58194	6.8314	0.751	20.00
Benzo (a) anthracene	5.48335	5.87034	7.06	20.00
Chrysene	5.33975	5.74089	7.51	20.00
Benzo (b) fluoranthene	4.95865	5.65085	14.0	20.00
Benzo (k) fluoranthene	4.81973	5.17896	7.45	20.00
Benzo (a) pyrene	4.62819	5.3324	15.2	20.00
Indeno (1,2,3-cd) pyrene	4.6884	4.87943	4.07	20.00
Dibenzo (a,h) anthracene	3.88281	3.9415	1.51	20.00
Benzo (g,h,i) perylene	4.14106	4.28047	3.37	20.00
5-alpha-Androstane	3807840	1	-100	
5-alpha-Androstane	3807.84	1	-100	

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* Reportable Detection Limit BRL = Below Reporting Limit

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0706010				
Calibration Check (0706010-CCV2)				
C9-C18 Aliphatic Hydrocarbons	1.29467E+11	1.33448E+08	3.00	25.00
C19-C36 Aliphatic Hydrocarbons	1.14918E+11	1.06969E+08	-11.5	25.00
C11-C22 Aromatic Hydrocarbons	17797.1	15.4962	-12.8	25.00
Naphthalene	7.49143	6.28559	-16.1	20.00
2-Methylnaphthalene	4.34714	3.90292	-10.2	20.00
Acenaphthylene	6.64623	6.26582	-5.72	20.00
Acenaphthene	4.18836	3.79773	-9.33	20.00
Fluorene	4.65243	4.37148	-6.04	20.00
Phenanthrene	6.2823	5.8232	-7.31	20.00
Anthracene	6.39254	6.1903	-3.16	20.00
Fluoranthene	6.42075	6.49984	1.23	20.00
Pyrene	6.58194	6.78084	3.02	20.00
Benzo (a) anthracene	5.48335	5.67463	3.49	20.00
Chrysene	5.33975	6.2869	17.7	20.00
Benzo (b) fluoranthene	4.95865	5.11192	3.09	20.00
Benzo (k) fluoranthene	4.81973	5.54733	15.1	20.00
Benzo (a) pyrene	4.62819	5.19447	12.2	20.00
Indeno (1,2,3-cd) pyrene	4.6884	4.77467	1.84	20.00
Dibenzo (a,h) anthracene	3.88281	4.17349	7.49	20.00
Benzo (g,h,i) perylene	4.14106	4.30395	3.93	20.00
5-alpha-Androstane	3807840	1	-100	
5-alpha-Androstane	3807.84	1	-100	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Notes and Definitions

QC1	Analyte out of acceptance range.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt

Matrix	Ground Water				
Containers	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Broken	<input type="checkbox"/> Leaking		
Aqueous Preservative	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> pH \leq 2	<input type="checkbox"/> pH $>$ 2	<input type="checkbox"/> pH adjusted to $<$ 2 in lab	Comment:
Temperature	<input type="checkbox"/> Received on ice	<input checked="" type="checkbox"/> Received at 4 ± 2 °C	<input type="checkbox"/> Other:	°C	

Were all QA/QC procedures followed as required by the EPH method? *Yes*

Were any significant modifications made to the EPH method as specified in Section 11.3? *No*

Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*


I attest 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.

Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA			Project #: 4953		
Project Location: 200 Trapelo Rd - Waltham, MA			MADEP RTN ¹ :		
This form provides certifications for the following data set SA62714-01 through SA62714-09					
Sample matrices:		Ground Water			
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide(PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte					
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
 Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 6/1/2007					

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* Reportable Detection Limit

BRL = Below Reporting Limit



Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: 6/1/07
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

8A 62714

Report To: Brian Klingler

Invoice To: SAME

Project No.: 4953

Site Name: 200 Trapelo Road

Location: Waltham State: MA

Sampler(s): FSC

Project Mgr.: Brian Klingler

P.O. No.: 4953

RON: _____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
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62714-01	MW-1	5/24/07	3:30pm	G	GS	2	1			
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-02	MW-2		3:10pm							
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-03	MW-3		1:50pm							
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-04	MW-4		1:30pm							
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-05	MW-81		8:25pm							
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-06	MW-82		2:40pm							
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-07	MW-83		2:50pm							
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-08	CMS-1		2:15pm							
-----	-------	--	--------	--	--	--	--	--	--	--

-09	CMS-2		12:55pm							
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Relinquished by:

Received by:

Date:

Time:

Fax results when available to (508) 697-5996

E-mail to Sciampa@coneco.com

EDD Format _____

Condition upon receipt: Iced Ambient °C 4.3

[Signature]

[Signature]

5/26/07 11:30

5/25/07 14:50

5/25/07 14:50

11 1000

Groundwater Analytical Results Summary

Groundwater Analytical Results
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
RTN 3-13467

Analysis	MW-3 ⁽¹⁾	MW-4 ⁽¹⁾	GW-2 Standard ⁽²⁾	GW-3 Standard ⁽³⁾	UCL in Groundwater ⁽⁴⁾
C ₂ -C ₁₀ Aliphatics	<200 ⁽⁵⁾	<200	<200	5,000	100,000
C ₁₂ -C ₁₈ Aliphatics	<200	<200	NA ⁽⁶⁾	50,000	100,000
C ₁₇ -C ₂₁ Aromatics	<200	<200	50,000	5,000	100,000
Acenaphthene	<5.0	<5.0	NA	6,000	50,000
Fluorene	<5.0	<5.0	NA	40	30,000
Phenanthrene	<5.0	<5.0	NA	10,000	3,000
Anthracene	<5.0	<5.0	NA	30	30,000
Fluoranthene	<5.0	<5.0	NA	200	3,000
Pyrene	<5.0	<5.0	NA	20	30,000
Benzofluoranthene	<5.0	<5.0	NA	1,000	30,000
Chrysene	<5.0	<5.0	NA	70	30,000
Benzofluoranthene	<5.0	<5.0	NA	400	30,000
Benzokjfluoranthene	<5.0	<5.0	NA	100	30,000
Benzofluoranthene	<5.0	<5.0	NA	500	30,000
Indeno(1,2,3-cd)pyrene	<5.0	<5.0	NA	100	30,000
Benzofluoranthene	<5.0	<5.0	NA	20	30,000
NAPL Thickness	NM ⁽⁷⁾	NM	NM		0.5"

1) Monitoring Well ID and Date Sampled

2) Method 1 Groundwater Standards derived from 310 CMR 40.0974(2)

3) Groundwater Upper Concentration Limit Standards derived from 310 CMR 40.0996(7)

4) Analytical Results presented in ug/L

5) NA denotes no standards have been promulgated

6) NM indicates NAPL thickness was not measured above 0.1 inches in the respective monitoring well

7) Bold indicates exceedance of applicable Risk Characterization Standards

8) Product measured greater than 0.1 inches but less than 0.5 inches

9) Sheet

Groundwater Analytical Results
The Fernald Center - Power Plant
 200 Trapelo Road
 Waltham, Massachusetts
 RTN 3-13467

Analyte	NW-110										NW-110										DCL in Groundwater			
	4/1/2003	11/11/2003	2/10/2004	5/4/2004	1/7/2005	5/21/2005	10/6/2005	1/28/2006	3/31/2006	5/5/2006	5/24/2007	8/1/2003	11/11/2003	2/10/2004	5/5/2004	1/7/2005	5/21/2005	10/6/2005	1/28/2006	3/31/2006		5/5/2006	5/24/2007	
C ₆ -C ₁₀ Aliphatics	2050 ⁽¹⁾	<200	290	<200	<200	<200	<200	<200	700	<200	<200	907	620	352	<200	<200	<200	<200	300	<200	<200	<200	<200	100,000
C ₁₀ -C ₁₆ Aliphatics	1,470	592	133	290	<200	<200	<200	1,500	2,000	300	<200	1,590	1,080	932	<200	<200	<200	<200	500	<200	<200	<200	<200	100,000
C ₁₁ -C ₂₂ Aromatics	6110⁽²⁾	1,310	545	376	300	<200	<200	1,900	2,000	300	<200	3,810	1,360	716	364	800	400	NS	1,600	<200	<200	500	<200	100,000
Aceanaphthene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	50,000
Fluorene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	5.08	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	30,000
Phenanthrene	10.4	7.24	<5.0	<5.0	<6.02	<5.6	28.9	<5.3	<5.6	<6.6	<5.6	15.8	5.91	7.2	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	3,000
Anthracene	<5.0	5.64	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Fluoranthene	<5.0	7.05	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	3,000
Pyrene	11.8	7.71	<5.0	<5.0	<6.02	<5.6	34.5	<5.3	<5.6	<6.6	<5.6	8.31	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Benzo(a)anthracene	<5.0	5.64	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Chrysene	6.26	5.89	<5.0	<5.0	<6.02	<5.6	32.8	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Benzo(b)fluoranthene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Benzo(k)fluoranthene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Benzo(a)pyrene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Indeno(1,2,3-cd)pyrene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
Benzo(g,h,i)perylene	<5.0	<5.0	<5.0	<5.0	<6.02	<5.6	<26.3	<5.3	<5.6	<6.6	<5.6	<5.0	<5.0	<5.0	<6.02	<5.3	NS	<5.4	<5.3	<5.6	<5.4	<5.4	<5.4	30,000
NAPL Thickness	NM ⁽⁸⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	NM ⁽⁹⁾	0.5"

1) Monitoring Well ID and Date Sampled

2) Method 1 Groundwater Standards derived from 310 CMR 40.0974(2)

3) Groundwater Upper Concentration Limit Standards derived from 310 CMR 40.0996(7)

4) Analytical Results presented in ug/L

5) N/A denotes no standards have been promulgated

6) NM indicates NAPL thickness was not measured above 0.1 inches in the respective monitoring well

7) Bold indicates exceedance of applicable Risk Characterization Standards

8) Product measured greater than 0.1 inches but less than 0.5 inches

9) Sheen

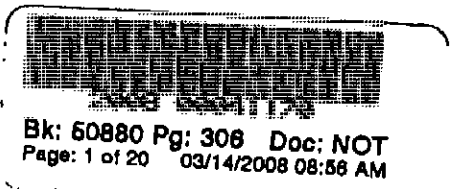
10) NS indicates sample was not submitted for laboratory analysis due to the presence of separate phase product in collected purge water

Groundwater Analytical Results
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
RTN 3-13467

Analyte	8/1/2003	11/11/2003	2/10/2004	5/5/2004	1/7/2005	5/21/2005	10/6/2005	1/20/2006	3/31/2006	9/5/2006	5/24/2007	5/24/2007	GMW-100	GMW-200	GW-2 Standards ⁽²⁾	GW-3 Standards ⁽³⁾	UCL in Groundwater ⁽⁴⁾
C ₇ -C ₁₆ Aliphatics	<200 ⁽⁴⁾	<200	<200	<200	<200	<200	<200	NC ⁽⁶⁾	<200	<200	<200	<200	<200	<200	5,000	50,000	100,000
C ₁₉ -C ₂₈ Aliphatics	<200	<200	<200	<200	<200	200	<200	NC	<200	<200	<200	<200	<200	<200	NA ⁽⁵⁾	50,000	100,000
C ₁₁ -C ₂₂ Aromatics	476	<200	<200	<200	<200	300	<200	NC	<200	<200	<200	<200	<200	<200	50,000	5,000	100,000
Acenaphthene	5.33	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	6,000	50,000
Fluorene	6.37	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	40	30,000
Phenanthrene	43.2	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	10,000	3,000
Anthracene	25.6	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	30	30,000
Fluoranthene	53.1	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	200	3,000
Pyrene	49.2 ⁽⁶⁾	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	20	30,000
Benzo(a)anthracene	21.3	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	1,000	30,000
Chrysene	21.8	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	70	30,000
Benzo(b)fluoranthene	16.7	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	400	30,000
Benzo(k)fluoranthene	13.7	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	100	30,000
Benzo(e)pyrene	16.4	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	500	30,000
Indeno (1,2,3-cd)pyrene	9.68	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	100	30,000
Benzo(g,h,i)perylene	9.6	<5.0	<5.0	<5.3	<5.3	<5.3	<5.4	NC	<5.4	<6.0	<5.8	<5.6	<5.6	<5.6	NA	20	30,000
NAPL Thickness	NM ⁽⁹⁾	NM	NM	NM	NM	NM	NM	NC	NM	NM	NM	NM	NM	NM			0.5"

- 1) Monitoring Well ID and Date Sampled
- 2) Method 1 Groundwater Standards derived from 310 CMR 40.0974(2)
- 3) Groundwater Upper Concentration Limit Standards derived from 310 CMR 40.0996(7)
- 4) Analytical Results presented in ug/L
- 5) NA denotes no standards have been promulgated
- 6) NM indicates NAPL thickness was not measured above 0.1 inches in the respective monitoring well
- 7) **Bold** indicates exceedance of applicable Risk Characterization Standards
- 8) Product measured greater than 0.1 inches but less than 0.5 inches
- 9) Sheen
- 10) NC indicates sample was not collected for laboratory analysis because the well was inaccessible

**Registry of Deeds-Certified Copy of Activity and Use Limitation
and Legal Notice**



204

Form 1075

NOTICE OF ACTIVITY AND USE LIMITATION
M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: The Fernald Center Power Plant
200 Trapelo Road
Waltham, Massachusetts
DEP Release Tracking No.(s): 3-13467

This Notice of Activity and Use Limitation ("Notice") is made as of this 14th day of March, 2008, by the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation at 500 Harrison Avenue in Boston, Massachusetts 02118, together with its successors and assigns (collectively "Owner").

WITNESSETH:

WHEREAS, the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation at 500 Harrison Avenue in Boston, Massachusetts, is the owner in fee simple of that certain parcel of land located at 200 Trapelo Road in Waltham, Middlesex County, Massachusetts with the buildings and improvements thereon, pursuant, in part, to a deed recorded with the Middlesex County Registry of Deeds in Book 5600, Page 550, with the remaining portion of the property being unrecorded land;

WHEREAS, said parcel of land, which is partially described in Exhibit A, attached hereto and made a part hereof ("Property") is subject to this Notice of Activity and Use Limitation. The Property is shown, in part, on two plans recorded with the Middlesex County Registry of Deeds in Plan ~~Book 2008, Page 104~~, and in a plan dated December 26, 1903 and revised in 1922, with the remaining portion of the Property being unrecorded land;

WHEREAS, a portion of the Property ("Portion of the Property") is subject to this Notice of Activity and Use Limitation. The Portion of the Property is more particularly bounded and described in Exhibit A-1, attached hereto and made a part hereof. The Portion of the Property is shown on a plan recorded with the Middlesex County Registry of Deeds in Plan Book 2008, Page 104, and on a sketch plan attached hereto;

WHEREAS, the Portion of the Property comprises all of a disposal site as the result of a release of oil and/or hazardous material. Exhibit B is a sketch plan showing the relationship of the Portion of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site existing within the limits of the Property and to the extent such boundaries have been established. Exhibit B is attached hereto and made a part hereof; and

WHEREAS, one or more response actions have been selected for the Disposal Site in accordance with M.G.L. c. 21E ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and/or hazardous material in soil and/or (b) the restriction of

T. Ref: Bk Pg
5600-550

Conoco Environmental
4 First Street
Bridgewater, MA 02324

certain activities occurring in, on, through, over or under the Portion of the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion"), dated March 6, 2008 (which is attached hereto as Exhibit C and made a part hereof);

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

1. Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Portion of the Property:

- (i) Any activities and uses consistent with the current use of the Portion of the Property as a power plant facility and parking area;
- (ii) Activities and uses including, but not limited to, maintenance of the asphalt-paved driveway and parking area within the designated AUL Area which do not cause direct contact with, disturbance, or relocation of, the contaminated soil within the designated AUL Area;
- (iii) Excavation associated with limited short term utility work which may be deemed necessary within the designated AUL Area, provided that it is conducted in accordance with the performance standards for Utility Related Abatement Measures (URAMs) set forth by the MCP at 310 CMR 40.0030, and all applicable worker health and safety practices pursuant to 310 CMR 40.0018;
- (iii) Subsurface activities and/or construction, including but not limited to excavation associated with future construction of buildings and other improvements to support permitted uses on the property which may disturb contaminated soils, provided that such work is conducted in accordance with a Soil Management Plan developed in accordance with Obligation (ii) as set forth in Notice of AUL Item 3;
- (v) Activities and uses not expressly prohibited by the Notice of AUL;
- (vi) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Paragraph; and
- (vii) Such other activities and uses not identified in Paragraph 2 as being Activities and Uses Inconsistent with the AUL.

2. Activities and Uses Inconsistent with the AUL Opinion. Activities and uses which are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Portion of the Property, may result in a

significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:

- (i) The use of buildings located with the Portion of the Property as an office, store, residence, school, or daycare facility;
- (ii) The cultivation of fruits and vegetables destined for human consumption (e.g., gardening);
- (iii) Recreational activities, such as playing baseball, swimming, fishing and hiking;
- (iv) Leisure activities, such as picnicking, sunbathing and entertaining;
- (v) Relocation of the contaminated soils within the designated AUL Area unless an LSP Opinion is rendered which attests that a condition of "No Significant Risk" is maintained, consistent with the provisions of the MCP; and
- (vi) Any subsurface activity or excavation which may result in direct contact with, disturbance, or relocation of contaminated soils between 2 and 15 feet which is not conducted in accordance with Obligations of the Notice of AUL.

3. Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Portion of the Property to maintain a condition of No Significant Risk as set forth in the AUL Opinion shall include the following:

- (i) Prior to the performance of major excavation work which may encounter impacted soils known to exist at depth, or in the event that evidence of petroleum contamination is encountered during shallow excavation work, a Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified professional familiar with worker health and safety procedures and requirements. The Health and Safety Plan must specify the level of personal protection and engineering controls, dust mitigative procedures, and perimeter monitoring necessary to prevent both worker and other receptor exposures to contaminated soils below current site grading. The Health and Safety Plan must also detail the type of protective clothing (i.e. gloves, Tyvek clothing, etc.), respiratory protection, environmental monitoring, and mechanical equipment necessary to prevent exposures to petroleum products via inhalation, ingestion and/or direct dermal contact;
- (ii) Prior to the performance of major excavation work which may encounter impacted soils known to exist at depth, or in the event that evidence of petroleum contamination is encountered during shallow excavation work, a Soil Management Plan must be prepared by a LSP and must describe soil

excavation, handling, storage, on-site reuse, transport, and disposal procedures. Petroleum-impacted soils excavated below currently existing surface grades must either be reused within the Portion of the Property at the same depths or greater below final grades, or must be transported off-site for appropriate disposal. The Soil Management Plan must also include a description of the engineering controls and air monitoring procedures necessary at the site to ensure that receptors in the vicinity of the site are not impacted by petroleum products, fugitive dust, particulates, or exposures to contaminated soil via inhalation, dermal contact and/or ingestion; and

- (iii) Full and immediate repair/replacement of the asphalt following the completion of excavation activities associated with limited short term utility work performed in accordance with Obligations (i) and (ii) above.

4. Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Portion of the Property which may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.

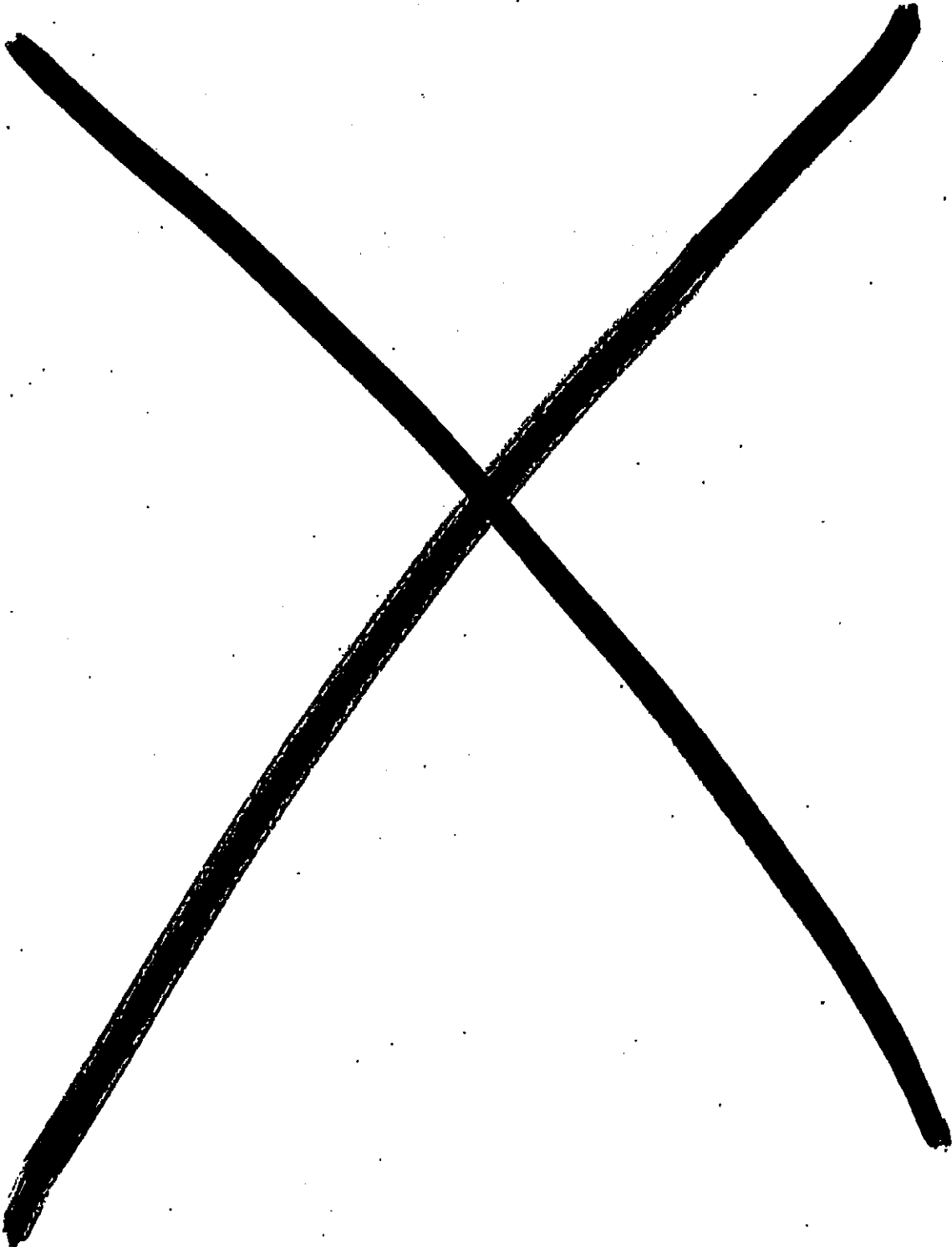
5. Violation of a Response Action Outcome. The activities, uses and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk of harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses, and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Portion of the Property subject to this Notice at the time that the activities, uses and/or exposures change, shall comply with the requirements set forth in 310 CMR 40.0020.

6. Incorporation Into Deeds, Mortgages, Leases, and Instruments of Transfer. This Notice shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

Owner hereby authorizes and consents to the filing and recordation and/or registration of this Notice, said Notice to become effective when executed under seal

by the undersigned LSP, and recorded and/or registered with the appropriate Registry(ies) of Deeds and/or Land Registration Office(s).



WITNESS the execution hereof under seal this 11-6th day of March, 2008.
2008.

By: Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Mental Retardation

Elin M. Howe

Elin M. Howe
Commissioner

COMMONWEALTH OF MASSACHUSETTS

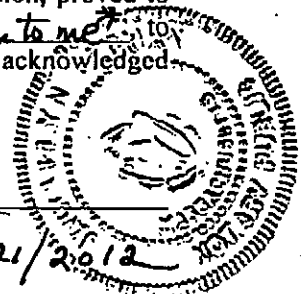
Suffern, ss

March 11, 2008

On this 11 day of March, 2008, before me, the undersigned notary public, personally appeared Elin M. Howe, Commissioner of the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation, proved to me through satisfactory evidence of identification, which were personally known to me to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

** Elin Howe is the Commissioner of the Massachusetts Dept of Mental Retardation and I am one of the attorneys in her employ.*

J. Berman
Notary Public:
My Commission Expires: 12/21/2012
Jacquelyn Berman



The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

Date: 3-13-08

B. Klingler
Brian F. Klingler, P.G., L.S.P.

LSP Seal:



COMMONWEALTH OF MASSACHUSETTS

Plymouth County, ss

MARCH 13, 2008

On this 13th day of MARCH, 2008, before me, the undersigned notary public, personally appeared Brian F. Klingler, P.G., L.S.P., proved to me through satisfactory evidence of identification, which were MA LICENSE, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

Jean M. Delmonico
Notary Public:
My Commission Expires: Sept. 22, 2011

Upon recording, return to:

Paul Beaton, P.E.
Project Engineer
Massachusetts Department of Mental Retardation
500 Harrison Avenue
Boston, Massachusetts 02118



Exhibit A

A metes and bounds description of a portion of recorded land located within the larger property which contains the Site is as follows:

COMMENCING Commencing at a point in the dividing line between land of the City of Waltham and land of the Roman Catholic Archbishop of Boston, said bound lying N 37° 49' 30" E a distance of 615.60 feet southerly from its intersection with the southerly line of Trapelo Road;

THENCE S 52° 10' 30" E for a distance of 264.99 feet;

THENCE S 36° 26' 40" W a distance of 51.26 feet;

THENCE S 38° 16' 40" W a distance of 203.22 feet;

THENCE N 48° 33' 50" W a distance of 265.15 feet;

THENCE N 37° 49' 30" E a distance of 237.76 feet to the point of beginning.

Containing 65,340 Square Feet.

The remaining area of the property is composed of unrecorded land owned by the Commonwealth of Massachusetts. No further legal descriptions or title deed is available for the remainder of the property.

Exhibit A-1

A metes and bounds description of the area subject to the AUL is as follows:

COMMENCING Commencing at a drill hole in a stone bound on the southeasterly line of Waverley Oaks Road, said bound lying N 51° 29' 49" E a distance of 1051.13 feet from the center of a stone bound also on the southeasterly line of Waverley Oaks Road which marks the point of curvature at the intersection of the northeasterly line of Beaver Street with the southeasterly line of Waverly Oaks Road;

THENCE N 47°27'49" W for a distance of 579.87 feet to the point of beginning of the herein described AUL area;

THENCE S 10°40'10" W a distance of 123.00 feet;

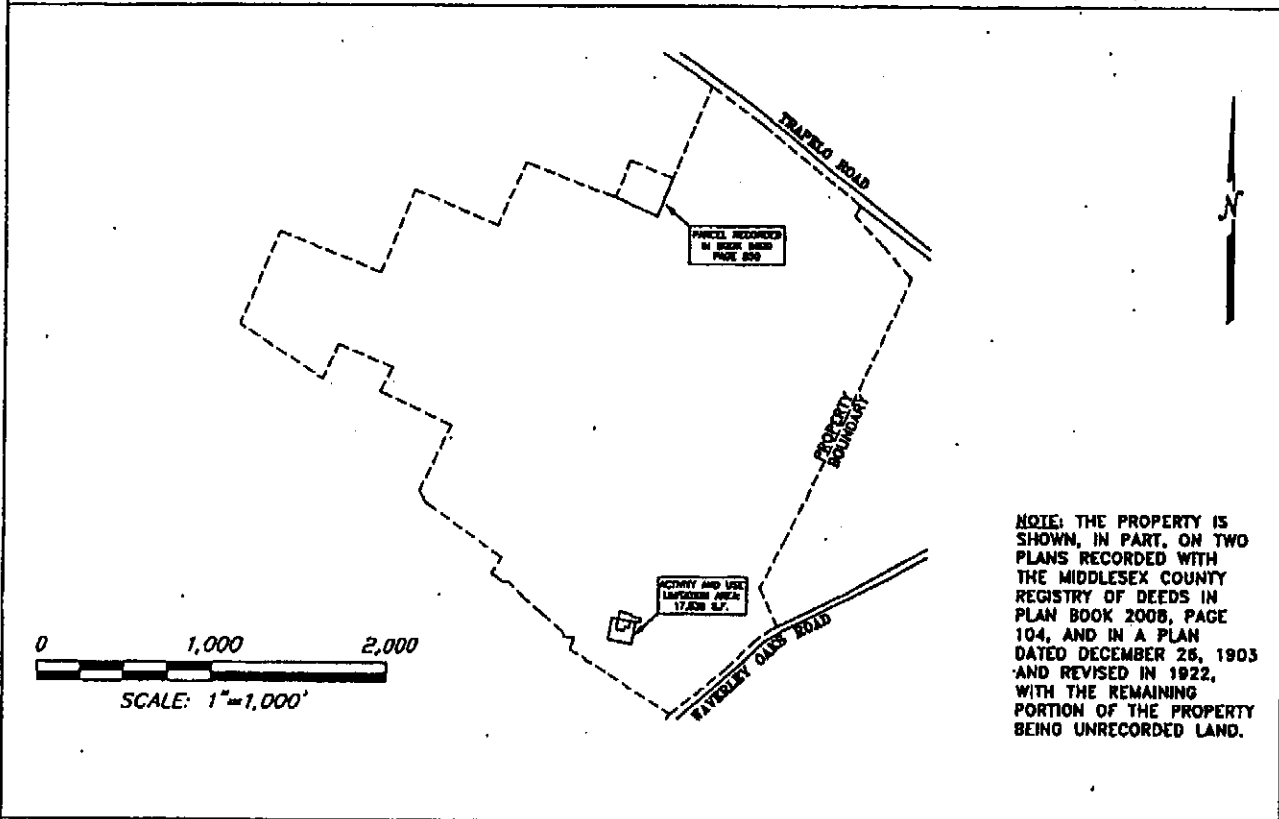
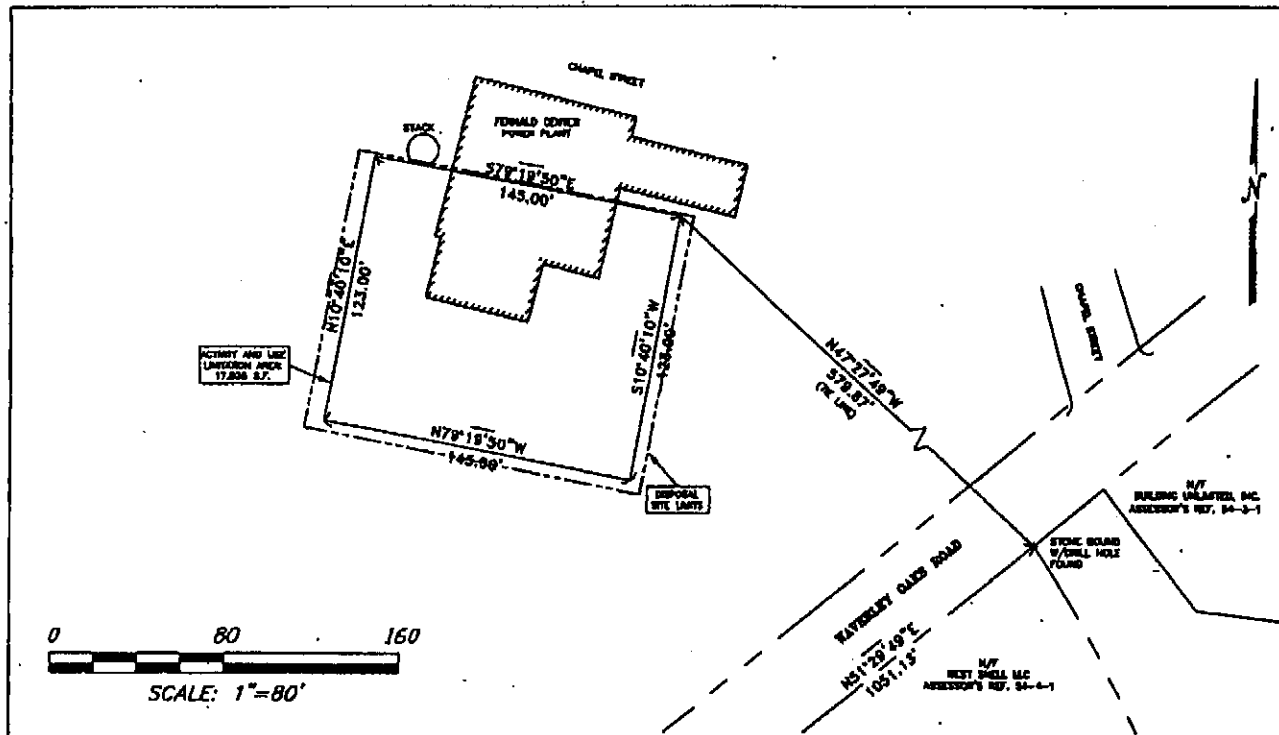
THENCE N 79°19'50" W a distance of 145.00 feet;

THENCE N 10°40'10" E a distance of 123.00 feet;

THENCE S 79°19'50"E a distance of 145.00 feet to the point of beginning.

Containing 17,835 Square Feet and bounded on all sides by other land of the Commonwealth of Massachusetts.

The depth of the area subject to the AUL begins at a depth of approximately 2 feet below surface grade within this area, which comprises an approximate 17,835 square feet and extends 15 feet below the existing surface grade.



4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 697-3191

SKETCH PLAN OF DISPOSAL SITE
FERNALD CENTER - POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13467

	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
BY	FJC	BFK	22/4953-Exhibit B.dwg	AS NOTED	4953	EXHIBIT B
DATE	2/4/08	2/15/08				

EXHIBIT "C"

March 6, 2008
Project No. 4953

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

RE: **Activity and Use Limitation Opinion**
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Sir or Madam:

In accordance with the specifications of 310-CMR 40.1074, on behalf of the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation (DMR), Coneco Engineers and Scientists (Coneco) has prepared the following Activity and Use Limitation (AUL) Opinion regarding the implementation of an AUL at the above-referenced property, hereinafter, the "Site."

Based upon the Method 1 Risk Characterization performed at the Site, a condition of "No Significant Risk" exists for all current uses of the Site; however, a condition of "No Significant Risk" does not exist for all potential future uses of the Site due to residual petroleum-impacted soil at the Site. To ensure that current and future risk is mitigated at the Site, an AUL is required in the Area of Concern which will limit soil exposure.

HISTORICAL BACKGROUND

Release Identification and Notification

Three No. 6 fuel oil underground storage tanks (USTs) were installed at the Site in 1954, with volumes ranging from 23,000 to 28,000 gallons. On February 20, 1996, personnel of the Fernald Center Power Plant reported that No. 6 fuel oil had released from these USTs and was seeping beneath a concrete retaining wall at the Site. This release reportedly impacted surficial and subsurface soil, an unnamed stream, and a pipe trench associated with the USTs. On this day, this release was reported to the Department of Environmental Protection - Northeast Regional Office (DEP-NERO). This release was assigned release tracking number (RTN) 3-13467.

Immediate Response Actions

At the request of DMR, Vertex Engineering Services, Incorporated (Vertex) of Weymouth, Massachusetts provided oversight for Immediate Response Action (IRA) activities including the deployment of oil absorbent pads and booms at the base of the retaining wall and in the adjacent stream to manually remove oil from the stream area.

An Immediate Response Action Plan (IRAP) was prepared by Vertex and submitted to the DEP-NERO on April 19, 1996. The IRAP consisted of the removal and replacement of the three USTs at the Site. These activities occurred between July and December of 1996. Approximately 1,000 cubic yards of soil and 15,000 gallons of groundwater were reportedly removed from the Site during IRA activities. The excavation was backfilled with clean fill and partially repaved after the completion of excavation activities. An IRA Completion Report was issued by Vertex on May 7, 1997.

Soil samples collected from the sidewalls and bottom of the excavation were submitted by Vertex for laboratory analysis of total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) Method 8100M. Laboratory analytical results of the soil samples indicated that elevated TPH concentrations remained in soil at the Site. As such, additional investigation activities were warranted.

Phase I - Initial Site Investigation / Tier Classification

A Phase I - Initial Site Investigation Report and Tier Classification Submittal were issued by Vertex on February 20, 1997. This investigation included a review of records available at state, federal, and local agencies, the performance of test borings, and the installation of seven groundwater monitoring wells at the Site. Four monitoring wells, designated MW-1 through MW-4, were installed outside the Fernald Power Plant building situated hydraulically upgradient and downgradient from the former USTs. Three monitoring wells, designated MW-B1 through MW-B3, were installed in the basement of the Fernald Power Plant building situated hydraulically crossgradient and downgradient from the former USTs. Soil samples collected during these subsurface investigation activities were submitted for laboratory analysis of TPH by EPA Method 8100M, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270, and benzene, toluene, ethyl benzene, and xylenes (BTEX) by EPA Method 8020. Laboratory analytical results of the soil samples indicated that elevated TPH concentrations remained in soil at the Site.

On February 6, 1997, Vertex assessed groundwater conditions at the Site, including gauging and sampling of the monitoring wells. Observations regarding the presence of non-aqueous phase liquid (NAPL) were made at each viable on-Site groundwater monitoring well. NAPL thickness was measured in monitoring wells MW-B1 and MW-B2 at a thickness exceeding 0.5 inches. No evidence of NAPL was detected in monitoring wells at the Site that included MW-1 through MW-4, and MW-B3. As such, Vertex collected groundwater samples from these monitoring wells and submitted them for laboratory analysis of TPH by EPA Method 8100M. Based upon these observations and laboratory analysis of soil and groundwater at the Site, a condition of "No Significant Risk" did not exist at the Site.

In addition, the Site was evaluated using the Numerical Ranking System for scoring Disposal Sites for purposes of Tier Classification and permitting. The Site received a score of 270 points, classifying it as a Tier II Site having low priority regulatory status.

Phase II Scope of Work and Comprehensive Site Assessment

A Scope of Work for a Phase II - Comprehensive Site Assessment was prepared by Vertex and submitted to the DEP on June 13, 1997. The Scope of Work detailed activities to be conducted as part of the Phase II Investigation, in accordance with the Massachusetts Contingency Plan (MCP).

In August 1998, Vertex conducted a Phase II - Comprehensive Site Assessment at the Site which included additional sampling and analysis of the existing groundwater monitoring wells, and additional evaluation of the stream adjacent to the Site. On August 5, 1998, Vertex noted that an immiscible layer of NAPL was present in monitoring wells MW-B1 and MW-B2 in excess of 0.5 inches.

No evidence of NAPL was detected in monitoring wells MW-1 through MW-4, and MW-B3. As such, Vertex collected groundwater samples from these monitoring wells and submitted them for laboratory analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. Analytical results obtained from groundwater samples collected from MW-1 through MW-4, and MW-B3 did not indicate concentrations of EPH carbon fraction ranges exceeding the applicable DEP Method 1 Risk Characterization Standards.

Vertex evaluated environmental conditions within the stream adjacent to the Site and concluded that IRA activities had reduced concentrations of oil and/or hazardous materials to levels below the applicable DEP Method 1 Risk Characterization Standards.

In addition, the Phase II Report included an Exposure Assessment which concluded the extent of the contamination associated with RTN 3-13467 remaining at the Site was confined to a localized area completely covered by the concrete slab floor of the Power Plant building and an area under the north retaining wall of the UST location. Consequently, impacted soil remaining at the Site was categorized as "Isolated Sub-Surface Soils."

A Method 1 Risk Characterization was conducted to determine whether a condition of "No Significant Risk" existed at the Site. The results of the assessment were that no significant migration of the release had occurred at the Site either as a dissolved phase in groundwater, as separate phase in the soil, or through volatilization into indoor air at the Site. The results of the Risk Characterization concluded that a condition of "No Significant Risk" did not exist at the Site due to the presence of NAPL in monitoring wells MW-B1 and MW-B2 at a thickness greater than the applicable Upper Concentration Limit (UCL).

Phase III - Evaluation of Comprehensive Response Action Alternatives, and Class C Response Action Outcome

On June 25, 2002, Vertex completed a Phase III - Remedial Action Plan, and Class C Response Action Outcome for the Site. The Phase III Report identified and evaluated Remedial Action Alternatives which are reasonably feasible to achieve a level of "No Significant Risk" for the release. The Phase III Report also demonstrated that a Permanent Solution is not feasible and that any substantial hazards associated with the Site have been eliminated allowing the implementation of a Class C - Temporary Solution Response Action Outcome.

Quarterly Groundwater Monitoring

On August 1, 2003, Coneco initiated investigatory activities to assess groundwater conditions at the Site and determine if a condition of "No Significant Risk" was present at the Site. These activities included the collection of groundwater samples from viable monitoring wells at the Site between August 2003 and May 2007. Observations regarding the presence of NAPL and the depth to groundwater measurements were made by Coneco personnel at each viable on-Site groundwater monitoring well. On October 6, 2005, Coneco measured NAPL in MW-B2 at a thickness of 0.63 feet. During subsequent sampling events from January 20, 2006 to May 24, 2007, Coneco continued to measure NAPL thickness in monitoring wells at the Site, and NAPL thickness was never measured greater than 0.1 inches in any of the monitoring wells. Therefore, NAPL thickness present within monitoring wells at the Site, specifically MW-B2, has been reduced below the applicable UCL of 0.5 inches.

Stage I Environmental Screening

Based on the reported release of No. 6 fuel oil to the stream adjacent to the Site, a Stage I Environmental Screening was conducted by Coneco to characterize potential exposure to Site biota and habitats. Although the release of No. 6 fuel oil had reportedly impacted the stream adjacent to the Site, subsequent field observations by Coneco between August 2003 and May 2007 did not identify any residual persistent contamination. As such, Coneco is of the opinion that the results of this Screening indicate that no current or future exposure exists at the Site in relation to this release, and a condition of "No Significant Risk of Harm" to Site biota and habitats exists.

METHOD I RISK CHARACTERIZATION

Using the soil and groundwater classifications derived for the Site, Method I threshold concentrations for the compounds reported at the Site are listed in the MCP. The most stringent Risk Characterization concentration from each soil and groundwater classification is considered to be the threshold under which a condition of "No Significant Risk" exists at the Disposal Site.

The concentration of oil or hazardous material in a specific medium which a human or environmental receptor may contact at the Site is defined as the "Exposure Point Concentration" (EPC). Under the provisions of the MCP, the EPC for an area of contaminated soil and groundwater can be determined by taking an average of all the concentrations detected within a contiguous area, which in this case, constitutes the area impacted by the release of No. 6 fuel oil at the Site. For the purposes of this investigation, the horizontal limits of the Disposal Site are conservatively defined as an approximately 14,000 square-foot area encompassing the location of the former USTs and identified impacted soil and groundwater at the Power Plant, as depicted on Exhibit B. Vertically, the Disposal Site includes soil from approximately 2 feet below grade to 15 feet below grade.

Soil Risk Characterization

Analytical results obtained from soil samples collected by Vertex at the conclusion of excavation activities, and Geoprobe® test boring samples collected by Coneco during monitoring well installation at the Disposal Site were used to calculate the current EPCs. For EPH fraction ranges detected within the limits of the Disposal Site, the EPCs have been defined as the average concentration of the respective EPH fraction ranges detected within

the soil samples collected from the Disposal Site. In soil samples from which the specific fractionation ranges were not detected above the laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC. In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of "No Significant Risk" exists for concentrations of oil and/or hazardous materials which have been reduced to "Background." As no concentrations of polycyclic aromatic hydrocarbons (PAHs) or C₁₁-C₂₂ Aromatic Hydrocarbons were identified in soil samples collected from the Site, these analytes were excluded from this Method 1 Risk Characterization. Soil analytical results, calculated EPCs, and the currently applicable Method 1 Risk Characterization Standards are presented below in Table 1.

Table 1 - Soil Exposure Point Concentrations

Sample ID (depth)	Date Collected	C ₉ -C ₁₈ Aliphatic Hydrocarbons	C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	C ₁₁ -C ₂₂ Aromatic Hydrocarbons
Sidewall-West (12')	10/29/1996	170 ⁽¹⁾	380	NT ⁽²⁾
Sidewall-East (12')	10/29/1996	96	480	NT
Sidewall-North (12')	10/28/1996	10,000	15,000	NT
Bottom #1 (17')	10/28/1996	1,900	4,500	NT
Bottom #2 (17')	10/29/1996	730	1,200	NT
Pipeline (3')	11/1/1996	870	2,000	NT
MW-1 (5-7')	2/3/1997	53	450	NT
MW-2 (5-7')	2/3/1997	3	31	NT
MW-3 (5-7')	2/3/1997	13	74	NT
MW-4 (5-7')	2/3/1997	8	26	NT
MW-2B (2-4')	2/3/1997	7,200	12,000	NT
MW-3B (2-4')	2/3/1997	2	12	NT
GP-01/S2 (3-5')	5/17/2007	<40.0	<40.0	<40.0
GP-02/S6 (13-15')	5/17/2007	<30.4	<30.4	<30.4
EPC Value		1,438.7	2,412.6	15.2
DEP Method 1 S-1/GW-2/3 Risk Characterization Standards ⁽³⁾		1,000	2,500	800
DEP Method 1 S-3/GW-2/3 Risk Characterization Standards ⁽³⁾		5,000	5,000	5,000

1) Analytical results and Method 1 Risk Characterization Standards are presented in mg/kg.

Notes: 2) NT denotes sample not tested for specified analyte

3) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.1

Although the Method 1 S-3 GW-2/3 Risk Characterization Standards are currently applicable for the Disposal Site, the more conservative Method 1 S-1 GW-2/3 Risk Characterization Standards are used to protect potential future Site uses. Therefore, a condition of "No Significant Risk" exists at the Disposal Site for current uses; however, a condition of "No Significant Risk" does not exist for potential future uses. The more stringent S-1 GW-2/3

Risk Characterization Standards will be achieved by implementing an Activity and Use Limitation.

Groundwater Risk Characterization

Pursuant to Policy WSC-02-411 Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MADEP VPH/EPH Approach, Coneco obtained data from Site monitoring wells on a quarterly basis to determine if a condition of "No Significant Risk" exists at the Disposal Site. On October 6, 2005, Coneco measured NAPL in MW-B2 at a thickness of 0.63 feet exceeding the applicable UCL of 0.5 inches presented in 310 CMR 40.0996(6). During the subsequent sampling events from January 20, 2006 to May 24, 2007, Coneco continued to measure NAPL thickness in monitoring wells at the Site, and NAPL thickness was never measured greater than 0.1 inches in any of the monitoring wells. Therefore, NAPL thickness present within monitoring wells at the Site, specifically MW-B2, have been reduced below the applicable UCL of 0.5 inches as presented in 310 CMR 40.0996(6).

Analytical results obtained from groundwater samples collected from viable on-Site monitoring wells by Coneco during sampling event between January 20, 2006 and May 24, 2007 were used to calculate the current EPCs. For EPH fraction ranges detected within the limits of the Disposal Site, the EPCs have been defined as the average concentration of the respective EPH fraction ranges detected within the groundwater samples collected from viable groundwater monitoring wells at the Site. In groundwater samples from which the specific fractionation ranges were not detected above the laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC.

In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of "No Significant Risk" exists for concentrations of oil and/or hazardous materials which have been reduced to "Background." As no concentrations of PAHs were identified in groundwater samples collected from monitoring wells at the Site between January 20, 2006 and May 24, 2007, these analytes were excluded from this Method 1 Risk Characterization. The calculated EPCs for groundwater analytes and the currently applicable Method 1 Risk Characterization Standards are presented below in Table 2.

**Table 2 - Groundwater Exposure Point Concentration Values –
January 20, 2006 through May 24, 2007**

Monitoring Well	C ₇ -C ₁₈ Aliphatic Hydrocarbon EPC	C ₁₉ -C ₃₄ Aliphatic Hydrocarbon EPC	C ₁₁ -C ₂₂ Aromatic Hydrocarbon EPC
MW-1	100.00 ⁽¹⁾	266.67	100.00
MW-2	100.00	100.00	100.00
MW-3	100.00	100.00	100.00
MW-4	100.00	100.00	100.00
MW-B1	300.00	566.67	800.00
MW-B2	100.00	100.00	233.33
MW-B3	100.00	100.00	100.00
CMW-1	100.00	100.00	100.00
CMW-2	100.00	100.00	100.00
<i>DEP Method 1 GW-2 Risk Characterization Standards⁽²⁾</i>	<i>1,000</i>	<i>NA⁽³⁾</i>	<i>50,000</i>
<i>DEP Method 1 GW-3 Risk Characterization Standards</i>	<i>20,000</i>	<i>20,000</i>	<i>30,000</i>
Notes:	4) Analytical results and Method 1 Risk Characterization Standards are presented in µg/l.		
	5) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.1.		
	6) NA denotes no standards have been promulgated.		

The calculated EPCs for groundwater samples collected from monitoring wells at the Site on a quarterly basis between January 20, 2006 and May 24, 2007 are below the currently applicable Method 1 Risk Characterization Standards. Therefore, a condition of "No Significant Risk" exists for groundwater at the Disposal Site.

ACTIVITY AND USE LIMITATION

Based upon analytical data collected during Coneco's investigations, the area subject to the AUL is depicted in plan view in Exhibit B and is registered at the Middlesex County Registry of Deeds in Plan Book 2008, Page 104. The description of the soil subject to the Activity and Use Limitation is provided below. Prohibited activities include the following:

- The use of buildings located with the Portion of the Property as an office, store, residence, school, or daycare;
- The cultivation of fruits and vegetables destined for human consumption (e.g., gardening);
- Recreational activities, such as playing baseball, swimming, fishing and hiking;
- Leisure activities, such as picnicking, sunbathing and entertaining;
- Relocation of the contaminated soils within the designated AUL Area unless an LSP Opinion is rendered which attests that a condition of "No Significant Risk" is maintained, consistent with the provisions of the MCP;

- Any subsurface activity or excavation which may result in direct contact with, disturbance, or relocation of contaminated soils between 2 and 15 feet which is not conducted in accordance with Obligations of the Notice of AUL.

The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur within the designated AUL Area:

- Any activities and uses consistent with the current use of the Portion of the Property as a Power Plant facility and parking area;
- Activities and uses including, but not limited to, maintenance of the asphalt-paved driveway and parking area within the designated AUL Area which do not cause direct contact with, disturbance, or relocation of, the contaminated soil within the designated AUL Area;
- Excavation associated with limited short term utility work which may be deemed necessary within the designated AUL Area, provided that it is conducted in accordance with the performance standards for Utility Related Abatement Measures (URAMs) set forth by the MCP at 310 CMR 40.0030, and all applicable worker health and safety practices pursuant to 310 CMR 40.0018;
- Subsurface activities and/or construction, including but not limited to excavation associated with future construction of buildings and other improvements to support permitted uses on the property which may disturb contaminated soils, provided that such work is conducted in accordance with a Soil Management Plan developed in accordance with Obligation (ii) as set forth in Notice of AUL Item 3.
- Activities and uses not expressly prohibited by the Notice of AUL;
- Such other activities and uses which, in the Opinion of a LSP, as defined in 310 CMR 40.0006, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

A metes and bounds description of the area subject to the AUL is as follows:

COMMENCING Commencing at a drill hole in a stone bound on the southeasterly line of Waverley Oaks Road, said bound lying N 51° 29' 49" E a distance of 1051.13 feet from the center of a stone bound also on the southeasterly line of Waverley Oaks Road which marks the point of curvature at the intersection of the northeasterly line of Beaver Street with the southeasterly line of Waverly Oaks Road;

THENCE N 47°27'49" W for a distance of 579.87 feet to the point of beginning of the herein described AUL area;

THENCE S 10°40'10" W a distance of 123.00 feet;

THENCE N 79°19'50" W a distance of 145.00 feet;

THENCE N 10°40'10" E a distance of 123.00 feet;

THENCE S 79°19'50"E a distance of 140.00 feet to the point of beginning.

Containing 17,835 Square Feet and bounded on all sides by other land of the Commonwealth of Massachusetts. The depth of the area subject to the AUL begins at a depth of approximately 2 feet below surface grade and extends 15 feet below the existing surface grade.

Notifications to the Chief Municipal Officer, Health Department, Zoning Official, and Building Department, as well as a published legal notice have been made within 30 days of the AUL submittal.

If there are any questions, please contact the undersigned at (508) 697-3191, extension 103.

Sincerely,
Coneco Engineers & Scientists, Incorporated



Brian F. Klingler, P.G., L.S.P.
Principal Geologist

Exhibit E

I, Elin M. Howe, do hereby certify that the property identified as "The Fernald Center" located at 200 Trapelo Road in Waltham, Massachusetts is owned by the Commonwealth of Massachusetts. In addition, the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation conducts operations at the above mentioned property. As Commissioner of the Department of Mental Retardation, I have the authority to sign legal documents on behalf of the Commonwealth.

Elin M. Howe

Elin M. Howe

Eugene C. Prime
Attest Middlesex S. Register

NOTICE OF AN ACTIVITY AND USE LIMITATION

**FERNAL CENTER - POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13467**

Pursuant to the Massachusetts Contingency Plan 310 CMR 40.1074, an Activity and Use Limitation (AUL) has been issued for the above-referenced location.

A release of petroleum products occurred at this location which is a Disposal Site (defined by M.G.L. c. 21E, Section 2). A Class A-3 Response Action Outcome (RAO) was achieved at this site. The AUL for the Fernald Center Power Plant at 200 Trapelo Road was recorded at the Middlesex County Registry of Deeds and is available for review as Document No. 00041170. The RAO Report can be viewed at the Department of Environmental Protection Northeast Regional Office (DEP NERO). In addition, the Chief Municipal Official, Board of Health, the Zoning Official, and the Building Code Enforcement Official of Waltham have received copies of the Activity and Use Limitation, pursuant to the Massachusetts Contingency Plan 310 CMR 40.1074.

Response actions at this site were conducted by the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation, who employed Coneco Engineers & Scientists, Incorporated of Bridgewater, Massachusetts to manage response actions in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000). To obtain more information on this Disposal Site, please contact Mr. Brian F. Klingler, P.G., L.S.P., Principal Geologist, of Coneco Engineers & Scientists, Incorporated at 4 First Street, Bridgewater, Massachusetts, 02324, or at (508) 697-3191.

**AUL Transmittal Form (BWSC-113)
and AUL Opinion Form (BWSC-113A)**



J.K

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

3 - 13467

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: POWER PLANT NEAR WAVERLY OAKS ENTRANCE

2. Street Address: 200 TRAPELO RD

3. City/Town: WALTHAM

4. ZIP Code: 02154-0000

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

- a. Tier 1A
- b. Tier 1B
- c. Tier 1C
- d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check one)

- 1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- 2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.
- 3. Submit a certified copy of an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081
- 4. Submit a certified copy of a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).
- 5. Submit a certified copy of a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
- 6. Submit a certified copy of a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
- 7. Submit a certified copy of an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
- 8. Submit a certified copy of a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
- 9. Submit a certified copy of a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
- 10. Submit a certified copy of a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

11. Provide Additional RTNs:

a. Check here if this AUL Submittal covers additional Release Tracking Numbers (RTNs).

b. Provide the additional Release Tracking Number(s) covered by this AUL Submittal. -

RECEIVED

MAR 21 2008

(All sections of this transmittal form must be filled out unless otherwise noted above)
DEP
NORTHEAST REGIONAL OFFICE
BWSC113A is required for all submittals listed above



ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

3 - 13467

C. AUL INFORMATION:

1. Document (per Section B) Recording and/or Registration Information:

a. Name of Registry of Deeds and/or Land Registration Office: **MIDDLESEX COUNTY REGISTRY OF DEEDS**

b. Book and Page Number and/or Document Number:

c. Date of recording and/or registration:
mm/dd/yyyy

2. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No b. Yes If yes, then fill out address section below.

3. Street Address:

4. City/Town: 5. ZIP Code:

D. PERSON SUBMITTING AUL TRANSMITTAL FORM:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions

2. Name of Organization: **COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF MENTAL RETARDATION**

3. Contact First Name: **ELIN M** 4. Last Name: **HOWE**

5. Street: **500 HARRISON AVENUE** 6. Title: **COMMISSIONER**

7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **02118-0000**

10. Telephone: **6177275608** 11. Ext.: 12. FAX: **6176247577**

13. Is the person described in this section the owner of the property?

a. Yes b. No, if checked then Section G must be filled out by at least one owner.

c. Check here if providing names and addresses of any additional owners in an attachment.

E. RELATIONSHIP TO DISPOSAL SITE OF PERSON SUBMITTING AUL TRANSMITTAL FORM: (check one)

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter

e. Other RP or PRP Specify:

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Submitting AUL Specify:



ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

3 - 13467

F. REQUIRED ATTACHMENT AND SUBMITTALS:

- 1. Check here to certify that notice of the proposed Activity and Use Limitation (AUL) was given to all record-interest holders, if any, in accordance with 310 CMR 40.1074(1)(e), via certified mail.
 - a. Check here if there were no record interest holders.
 - b. Date of certified mailing: _____
mm/dd/yyyy
 - c. Check here to certify that names and addresses of all record holders notified is attached.
- 2. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a copy of the AUL was/will be provided to the Chief Municipal Officer, the Board of Health, the Zoning Official, and the Building Code Enforcement Official in the community(ies) where the the property subject to such Activity and Use Limitation is located.
- 3. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a Legal Notice was/will be published in a newspaper with circulation in the community(ies) where the property subject to the AUL is located.
- 4. Check here to certify that within 7 days of publishing a Legal Notice in a newspaper with circulation in the community(ies) where the property subject to the AUL is located, a copy of the notice was/will be submitted to DEP.
- 5. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a certified copy of the AUL, including the LSP Opinion containing the material facts, data, and other information, will be submitted to DEP.
- 6. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
- 7. If an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

G. CERTIFICATION OF OWNER OF PROPERTY, IF NOT PERSON SUBMITTING AUL TRANSMITTAL FORM:

1. I, _____, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL

2. _____ 3. Date: _____
Signature mm/dd/yyyy

4. Name of Organization: _____

5. Contact First Name: _____ 6. Last Name: _____

7. Street: _____ 8. Title: _____

9. City/Town: _____ 10. State: _____ 11. ZIP Code: _____

12. Telephone: _____ 13. Ext.: _____ 14. FAX: _____



ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

3 - 13467

A. DISPOSAL SITE LOCATION:

- 1. Disposal Site Name: **POWER PLANT NEAR WAVERLY OAKS ENTRANCE**
- 2. Street Address: **200 TRAPELO RD**
- 3. City/Town: **WALTHAM**
- 4. ZIP Code: **02154-0000**

B. THIS FORM IS BEING USED TO: (check one)

- 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- 2. Provide the LSP Opinion for an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement**, pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.
- 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).
- 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).
- 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
- 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
- 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
- 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
- 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
- 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

RECEIVED

MAR 21 2008

C. AUL INFORMATION:

1. Is the address of the property subject to AUL different from the disposal site address listed above?

- a. No
 - b. Yes
- If yes, then fill out address section below.

- 2. Street Address: _____
- 3. City/Town: _____
- 4. ZIP Code: _____

**DEP
NORTHEAST REGIONAL OFFICE**



ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Release Tracking Number

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

3 - 13467

D. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

- > if Section B indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;
- > if Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;
- > if Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;
- > if Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;
- > if Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;
- > if Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 8493

2. First Name: BRIAN F

3. Last Name: KLINGLER

4. Telephone: 5086973191

5. Ext.:

6. FAX:

7. Signature:

8. Date: 3-3-08
mm/dd/yyyy

9. LSP Stamp:

**RAO Transmittal Form (BWSC-104)
and Copies of Municipal and Public Notification Letters**

**RAO Transmittal Form (BWSC-104)
and Copies of Municipal and Public Notification Letters**



CIVIL DESIGN & LAND PLANNING
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ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

March 19, 2008
Project No. 4953

Mayor Jeannette A. McCarthy
Waltham City Hall, Second Floor
610 Main Street
Waltham, Massachusetts 02452

RE: Public Involvement Notification
Class A-3 Response Action Outcome Report
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Mayor McCarthy

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification for the submittal of a Class A-3 Response Action Outcome and Activity and Use Limitation (AUL) for the release of No. 6 fuel oil from three underground storage tanks formerly located at the Fernald Center Power Plant located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." The Department of Environmental Protection - Northeast Regional Office (DEP-NERO) was first notified of the release on February 20, 1996 and the Site was assigned Release Tracking Number (RTN) 3-13467. The Response Action Outcome Statement was issued to the DEP-NERO on March 19, 2008. Please find a copy of a Registry of Deeds-certified copy of the above mentioned AUL enclosed with this letter. A copy of the referenced report is available for review at the DEP-NERO. If you have any questions, please contact the undersigned.

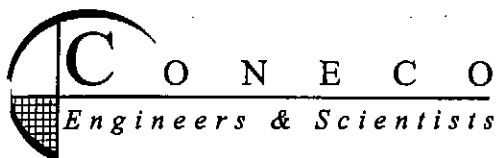
Sincerely,
Coneco Engineers & Scientists, Incorporated

A handwritten signature in black ink, appearing to read 'Brian F. Klingler', is written over a circular stamp or seal.

Brian F. Klingler, PG, LSP
Principal Geologist

FJC:BFK:jd
Z://4953 - AUL Public Involvement Notices.doc

cc: DEP-NERO
Ms. Ellen M. Howe, DMR
Mr. Walter S. Sweder, Board of Health
Mr. Ronald G. Vokey, Planning Department



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ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

March 19, 2008
Project No. 4953


Mr. Walter S. Sweder
Director of Public Health
City of Waltham Health Department
119 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Class A-3 Response Action Outcome Report
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Mr. Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification for the submittal of a Class A-3 Response Action Outcome and Activity and Use Limitation (AUL) for the release of No. 6 fuel oil from three underground storage tanks formerly located at the Fernald Center Power Plant located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." The Department of Environmental Protection - Northeast Regional Office (DEP-NERO) was first notified of the release on February 20, 1996 and the Site was assigned Release Tracking Number (RTN) 3-13467. The Response Action Outcome Statement was issued to the DEP-NERO on March 19, 2008. Please find a copy of a Registry of Deeds-certified copy of the above mentioned AUL enclosed with this letter. A copy of the referenced report is available for review at the DEP-NERO. If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists, Incorporated



Brian F. Klingler, PG, LSP
Principal Geologist

FJC:BFK:jd
Z://4953 - AUL Public Involvement Notices.doc

cc: DEP-NERO
Ms. Ellen M. Howe, DMR
Mayor Jeannette A. McCarthy
Mr. Ronald G. Vokey, Planning Department



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ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

March 19, 2008
Project No. 4953

Mr. Ronald G. Vokey
Planning Director
City of Waltham Planning Department
119 School Street, Top Floor
Waltham, Massachusetts 02451

RE: Public Involvement Notification
Class A-3 Response Action Outcome Report
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Mr. Vokey:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification for the submittal of a Class A-3 Response Action Outcome and Activity and Use Limitation (AUL) for the release of No. 6 fuel oil from three underground storage tanks formerly located at the Fernald Center Power Plant located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." The Department of Environmental Protection - Northeast Regional Office (DEP-NERO) was first notified of the release on February 20, 1996 and the Site was assigned Release Tracking Number (RTN) 3-13467. The Response Action Outcome Statement was issued to the DEP-NERO on March 19, 2008. Please find a copy of a Registry of Deeds-certified copy of the above mentioned AUL enclosed with this letter. A copy of the referenced report is available for review at the DEP-NERO. If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists, Incorporated

A handwritten signature in black ink, appearing to read 'Brian F. Klingler', is written over a circular stamp or seal.

Brian F. Klingler, PG, LSP
Principal Geologist

FJC:BFK:jd
Z://4953 - AUL Public Involvement Notices.doc

cc: DEP-NERO
Ms. Ellen M. Howe, DMR
Mayor Jeannette A. McCarthy
Mr. Walter S. Sweder, Board of Health

**RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM**

Release Tracking

3 - 13467

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment.

Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.

Release Tracking _____

Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> If Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> If Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you **MUST** attach a statement identifying the applicable provisions of such order(s), permit(s) and/or approval(s).

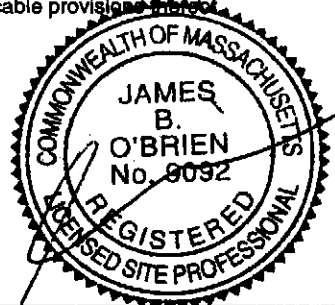
LSP Name: James B. O'Brien LSP #: 9092 Stamp: _____

Telephone: 781-952-6000 Ext.: _____

FAX: (optional) _____

Signature: _____

Date: 6-14-02



I. PERSON MAKING SUBMITTAL:

Name of Commonwealth of Massachusetts Department of Mental Retardation

Name of John Sites Title: Dir. Facilities Management

Street: 500 Harrison Avenue

City/Town: Boston State: MA ZIP Code: 02154-0000

Telephone: 617-624-7886 Ext.: _____ FAX: _____

J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: (check one)

RP or PRP Specify: Owner Operator Generator Transporter Other RP or PRP: _____

Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

Any Other Person Submitting This Form Specify _____

**RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM**

Release Tracking

3 - 13467

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

CERTIFICATION OF PERSON SUBMITTING DOWNGRADIANT PROPERTY STATUS SUBMITTAL:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: _____
(signature)

For: _____ Date: _____
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____

City/Town: _____ State: _____ ZIP Code: _____

Telephone: _____ Ext.: _____ FAX: (optional) _____

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, John Sites, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: John Sites Title: Dir. Facilities Management
(signature)

For: John Sites Date: 6/25/02
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____

City/Town: _____ State: _____ ZIP Code: _____

Telephone: _____ Ext.: _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

EXHIBIT C-8

RTN 3-0021893, Malone Park Bldg No 23

Site Information			
Site Number:	3-0021893	Category:	72 HR
Site Name:	MALONE PARK BLDG NO 23	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	8/4/2005
Town:	WALTHAM	Phase:	PHASE II
Zipcode:	02454-0000	RAO class:	
Official notification date:	6/27/2002	Location type:	STATE
Initial status date:	6/27/2003	Source:	UST
Click Here for File Viewer			

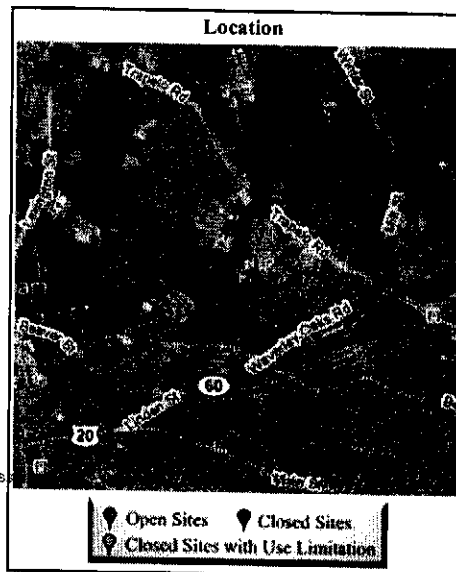
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	8/4/2005
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	8/4/2005
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	7/3/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	TIERII - Tier 2 Classification
Submittal Date:	7/3/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	8/26/2002
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	6/27/2002
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
FUEL OIL #2	100	PPMV
FUEL OIL #2	200	PPMV

LSPs	
LSP#	Name
8493	KLINGLER, BRIAN F

RAO Detail			
Class	Method	GW Category	Soil Category
A2	3	2	2
A2	3	2	2

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
247	35	107	25	80	0	N	N
247	35	107	25	80	0	N	N





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February 26, 2004
Project No. 4701.A

Mr. Roger Chu
Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
1 Winter Street
Boston, Massachusetts 02108

RE: **Immediate Response Action Status Report**
Fernald Center - Malone Park
Building No. 23
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21893

Dear Mr. Chu:

Coneco Engineers and Scientists (Coneco) has prepared the following Immediate Response Action (IRA) Status Report for the performance of IRA activities relating to a release of fuel oil from a 500-gallon underground storage tank (UST) at Building No. 23 of Malone Park, within the Fernald Center at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." The focus of the IRA is to define the limits of petroleum impacted media and reduce petroleum concentrations such that a Class A Response Action Outcome (RAO) can be achieved. This IRA Status Report has been prepared in accordance with Massachusetts Contingency Plan (MCP) specifications as set forth in 310 CMR 40.0425. This report includes a Department of Environmental Protection (DEP) IRA Transmittal Form (BWSC-105) as Appendix 1.

1.0 BACKGROUND

On June 26, 2002, a release of fuel oil was discovered during closure activities for a 500-gallon UST formerly located at the Site. Soil samples collected from the vicinity of the UST exhibited photoionization detector (PID) headspace concentrations in excess of 100 parts per million by volume (ppmv). As a result, the DEP was verbally notified of the release on June 27, 2002, within the 72-hour notification requirement, pursuant to 310 CMR 40.0000. The release was assigned Release Tracking Number (RTN) 3-21893, and verbal approval to conduct a soil removal of up to 50 cubic yards was granted under an IRA. No holes were noted within the UST, and as such, the release was likely the result of overfilling.

1.1 Site Parameters

Person Assuming

Responsibility: David Chan, Project Engineer
Commonwealth of Massachusetts
Department of Mental Retardation
500 Harrison Avenue
Boston, Massachusetts 02118
Phone: (617) 624-7881

Disposal Site

Limits: The release impacted soil and groundwater in the immediate vicinity of the former UST as indicated by elevated PID headspace concentrations and a petroleum sheen on groundwater within the UST excavation. As such, the Disposal Site limits include soil and groundwater located in the immediate vicinity of the former UST to a depth of approximately eleven feet below grade. Based on laboratory analytical results of soil samples collected subsequent to IRA exaction activities, impacted materials associated with this release are limited to the boundaries of the Disposal Site.

Coordinates: Latitude 42° 23' 28" N Longitude 71° 12' 59" W
UTM 4,695,380 Meters N 317,560 Meters E (Zone 19)

Adjacent

Properties: The Disposal Site is located within the Massachusetts Department of Mental Retardation Fernald Center, a residential and school facility. The Fernald Center is situated within a primarily residential and undeveloped area of Waltham, Massachusetts. Private residences, commercial properties, and undeveloped land surround the Site.

2.0 IRA ACTIVITIES PERFORMED TO DATE

2.1 IRA Excavation

On July 15 and 16, 2002, soil removal activities were conducted at the Site to remove petroleum-impacted soil and further delineate subsurface conditions. The extent to which soil was excavated was determined by the periodic screening of samples collected from the base and sidewalls using PID and standard headspace techniques in accordance with DEP Policy WSC 94-400. Overburden stratigraphy within the UST excavation consisted of fill and gravelly, silty sand. Groundwater was encountered within excavation at approximately nine feet below grade. A light sheen was noted on the surface of groundwater within the excavation. Final excavation dimensions were approximately 20 feet by 20 feet by eleven feet (length, width, depth). Impacted soil was temporarily stockpiled on-Site and covered

and lined with 6-mil polyethylene sheeting in accordance with 310 CMR 40.0030 and 310 CMR 30.0040.

Five confirmatory soil samples were collected from the excavation base and sidewalls, and submitted to Spectrum Analytical, Incorporated (Spectrum), an independent Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 2. A summary of the analytical data is presented in Table 1.

Table 1 – Soil Analytical Results: EPH by the DEP Method - July 16, 2002

Analyte	NSW (6-8')	SSW (6-8')	ESW (6-8')	WSW (6-8')	BASE (12')
C9-C18 aliphatics	ND	ND	ND	ND	400
C19-C36 aliphatics	ND	ND	63	73	250
C11-C22 aromatics	ND	ND	ND	ND	330
Fluoranthene	ND	ND	ND	0.330	ND
Pyrene	ND	ND	ND	0.330	ND

Notes: 1) ND = Not Detected above laboratory quantification limits
2) Results are reported for detected analytes only

2.2 Subsurface Investigation

Coneco performed a Supplemental Subsurface Investigation at the Disposal Site to confirm the presence or absence of suspected oil and/or hazardous materials within soil and groundwater at the Disposal Site.

Geoprobe[®] test borings were initiated at the Disposal Site on January 20, 2003, by New England Geotech of Jamestown, Rhode Island. Due to heavy snow drifting, two of the proposed test boring locations were not accessible. As such, Coneco contracted Soil Exploration of Leominster, Massachusetts to install two additional hollow stem auger borings using an all-terrain vehicle-mounted rig on June 5, 2003. As the initial monitoring well CMW-1 was destroyed during landscaping activities at the Disposal Site, a replacement well, CMW-1R, was installed on this day in the former location of boring GP-01 and well CMW-1. The locations of test borings and monitoring wells, the former UST, and other relevant Site features can be referenced in Figure 2.

Test boring locations at the Site were selected to characterize the environmental conditions within the vicinity of the former UST. Test borings were advanced to depths ranging from 11 to 13 feet below grade utilizing a truck-mounted Geoprobe[®] sampling system, and a hollow stem auger / split spoon sampling system. Soil samples were collected at five-foot intervals continuously in all test borings. The standard operating procedures for the performance of Geoprobe[®] and hollow stem auger soil borings are included as Appendix 3. The locations of test borings and monitoring wells, the former UST, and other relevant Site features can be

referenced in Figure 2. In addition, the soil-boring log is included as Appendix 4. Test boring locations are described as follows:

GP-01: Test borings GP-01 was advanced in the location of the former 500-gallon No. 2 fuel oil UST.

B-2: Test borings B-2 was advanced south of the former UST location. This boring was intended to describe environmental conditions of this portion of the Disposal Site and assess any potential contaminant migration outside of the former UST grave. Location selection for this boring was constrained by numerous refusals, the locations of underground electrical and drainage lines, and a tree which restricted the operation of the drilling equipment.

B-3: Test boring B-3 was advanced west of the retaining wall located adjacent to the former UST grave in an assumed downgradient location. This boring was intended to describe environmental conditions of this portion of the Disposal Site and assess any potential contaminant migration outside of the former UST grave. Location selection for this boring was constrained by numerous refusals.

Observations made during the performance of test borings indicated the presence of fill consisting of a loamy gravelly silty sand to an average depth of two feet underlain by dense glacial/fluviol deposits of fine gravelly silty sand to a depth of approximately 13 feet below grade, the maximum depth of investigation. Groundwater and weathered bedrock were encountered at depths of six to eight and 13 feet below grade, respectively.

2.3 Soil Boring Screening

Representative soil samples collected from test borings B-2 and B-3 were placed in clean, tightly sealed glass jars with aluminum foil cover liners for in-field screening using a RAE Systems MiniRAE 2000 PID, calibrated to an isobutylene standard. Headspace procedures were performed in accordance with DEP Policy WSC 94-400. A discussion of this procedure and standard operating protocol is included in Appendix 3. Headspace measurements of volatile compounds (VCs) indicated concentrations of 152 parts per million (ppm) and 1.1 ppm at depths of 10 to 12 feet in borings B-2 and B-3, respectively. No additional concentrations of VCs were detected in any of the remaining soil samples.

2.4 Soil Boring Analytical Results

Select duplicate soil samples collected during soil boring activities were placed in the appropriate containers for analysis of EPH by the DEP Method. Sampling depth was selected to correspond to the lower extent of the vadose zone. As such, samples were collected from approximately 10 to 12 feet below grade from borings B-2 and B-3 and were labeled accordingly. All samples were shipped by courier to Spectrum on June 9, 2003. Original laboratory data, laboratory QA/QC, methods and chain of custody are provided for reference as Appendix 2. A summary of the analytical data is presented in Table 2.

Table 2 - Soil Boring Analytical Results: EPH by the DEP Method - June 5, 2003

Analyte	B-2 (10-12')	B-3 (10-12')	Method 1 S-2 GW-2/3 Risk Characterization Standards	Method 1 S-1 GW-2/3 Risk Characterization Standards
C9-C18 Aliphatic	450	ND	2,500	1,000
C19-C36 Aliphatic	190	ND	5,000	2,500
C11-C22 Aromatics	260	ND	2,000	800
2-Methylnaphthalene	0.780	ND	1,000	500
Fluorene	0.520	ND	2,000	1,000
Phenanthrene	1.200	ND	2,500 / 100	1,000 / 100
Fluoranthene	0.470	ND	2,000 / 1,000	1,000
Pyrene	0.660	ND	2,000	2

Notes: Results are reported for detected analytes only in mg/Kg
B-2 is subject to both S-2 GW-2 and GW-3 Risk Characterization standards
B-3 is subject to solely the S-2 GW-3 Risk Characterization standards
Method 1 S-1 GW 2/3 Standards are provided for potential future uses of the Disposal Site

2.5 Groundwater Monitoring Well Installation

Groundwater monitoring wells CMW-1R, CMW-2, and CMW-3 were installed in test borings GP-01, B-2 and B-3, respectively. The monitoring wells were constructed of 2-inch ID, schedule 40, No. 10 slotted PVC well screen from the base of the well to approximately 2 feet below grade, with solid PVC riser pipe from the top of the slotted screen to grade. A discussion of the monitoring well installation procedure is included as Appendix 3.

2.6 Site Survey/Gauging of Groundwater Levels

A Site survey was conducted by Coneco personnel on June 9, 2003. The survey was performed to determine the elevation of on-Site monitoring wells. A reference elevation for each monitoring well was established at a specific point on the top of the PVC well casing. An arbitrary elevation of 100.00 feet, at the base of the southwest corner of Building No. 23, was chosen as a benchmark.

Depth to groundwater measurements were made at each groundwater monitoring well to the nearest 0.01 foot by Coneco personnel. The depth to groundwater was measured using a Keck Water Lever Indicator from the reference point located at the top of the PVC well casing. No separate-phase product was detected during the groundwater gauging. The tabulated data for the surveyed wells is presented in Table 3.

Table 3 - Tabulation of Survey Data

Monitoring Well	PVC Elevation	Depth to Water Table	Screen Interval	Groundwater Elevation
CMW-1R	99.06	5.16	3-13	93.90
CMW-2	99.25	7.69	3-13	91.56
CMW-3	97.89	7.99	3-11	89.90

Note: All measurements given in feet.

Groundwater surface elevation contours were computer-generated using Surfer version 7.0 Golden Software©, Inc. The groundwater contour data, as determined by groundwater gauging, is provided for reference in Figure 2. The groundwater contour plan, using data from the three monitoring wells, indicates a flow in a general south-southwesterly direction.

2.7 Post-Initial Excavation Groundwater Analytical Results

Groundwater samples were collected from CMW-1 on January 31, 2003 and from CMW-1R, CMW-2, and CMW-3 on June 9, 2003 for analysis of EPH by the DEP Method. Samples were collected using the applicable standard operating procedures included in Appendix 3. Laboratory analytical results and the applicable Method 1 Risk Characterization standards are summarized in Tables 4 and 5. Original laboratory data, laboratory QA/QC, methods, and chain-of-custody form are included for reference as Appendix 2.

Table 4 - Building 23 Groundwater Analytical Results: January 31, 2003

Analyte	CMW-1	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatic	110,000	1,000	20,000
C19-C36 Aliphatic	44,000	Not Applicable	20,000
C11-C22 Aromatics	103,000	50,000	30,000
Naphthalene	69	6,000	6,000
2-Methylnaphthalene	200	10,000	3,000
Acenaphthene	62	Not Applicable	5,000
Fluorene	99	Not Applicable	3,000
Phenanthrene	160	Not Applicable	50
Anthracene	11	Not Applicable	3,000
Pyrene	39	Not Applicable	3,000

Notes: Results are reported for detected analytes only in µg/L
 CMW-1 is subject to both GW-2 and GW-3 Risk Characterization standards
BOLD indicates concentration in excess of applicable Risk Characterization standards

Table 5 - Building 23 Groundwater Analytical Results: June 9, 2003

Analyte	CMW-1	CMW-2	CMW-3	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatic	34,000	1,700	930	1,000	20,000
C19-C36 Aliphatic	14,000	690	640	Not Applicable	20,000
C11-C22 Aromatics	24,000	1,700	780	50,000	30,000
Fluorene	32	ND	ND	Not Applicable	3,000
Phenanthrene	55	ND	ND	Not Applicable	50
Anthracene	7.3	ND	ND	Not Applicable	3,000
Fluoranthene	5.1	ND	ND	Not Applicable	200
Pyrene	20	ND	ND	Not Applicable	3,000

Notes: Results are reported for detected analytes only in µg/L
 CMW-1R and CMW-2 are subject to both GW-2 and GW-3 Risk Characterization standards
 CMW-3 is subject to solely the GW-3 Risk Characterization standards
BOLD indicates concentration in excess of applicable Risk Characterization standards

2.8 Additional IRA Excavation Activities

Based on the previously summarized analytical results, a condition of "No Significant Risk" is not present for groundwater at the Site. As such, it is the opinion of Coneco that a Response Action Outcome (RAO) cannot yet be achieved at the Site. As additional soil removal activities are necessary in order to reduce petroleum concentrations in groundwater at the Site, Coneco has completed a limited point source soil excavation within the area of concern in order to reduce concentrations of petroleum in groundwater.

On September 9 through 11, 2003, soil removal activities were conducted at the Site to remove petroleum-impacted soil. The extent to which soil was excavated was determined by the periodic screening of samples collected from the base and sidewalls using PID and standard headspace techniques in accordance with DEP Policy WSC 94-400. Overburden stratigraphy within the additional IRA excavation consisted of fill and gravelly, silty sand. Bedrock was encountered within excavation at approximately 12 feet below grade. At this depth, a true groundwater table was not encountered through moist capillary zone soil was observed. Final excavation dimensions were approximately 18 feet by 21 feet by 12 feet (length, width, depth). Approximately ten cubic yards of impacted soil was temporarily stockpiled on-Site and covered and lined with 6-mil polyethylene sheeting in accordance with 310 CMR 40.0030.

2.9 Post-Additional Excavation Groundwater Analytical Results

Groundwater samples were collected from CMW-1R, CMW-2, and CMW-3 on November 11, 2003 for analysis of EPH by the DEP Method. Samples were collected using the applicable standard operating procedures included in Appendix 3. Laboratory analytical results and the applicable Method 1 Risk Characterization standards are summarized in Table 6. Original laboratory data, laboratory QA/QC, methods, and chain-of-custody form are included for reference as Appendix 2.

Table 6 - Groundwater Analytical Results: November 11, 2003

Analyte	CMW-1R	CMW-2	CMW-3	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatic	2,450	418	ND	1,000	20,000
C19-C36 Aliphatic	700	ND	ND	N/A	20,000
C11-C22 Aromatics	3,000	601	ND	50,000	30,000
2-Methylnaphthalene	8.80	ND	ND	10,000	3,000
Fluorene	3.65	ND	ND	N/A	3,000
Phenanthrene	5.46	ND	ND	N/A	50

Notes: Results are reported for detected analytes only in µg/L
 CMW-1R and CMW-2 are subject to both GW-2 and GW-3 Risk Characterization standards
 CMW-3 is subject to solely the GW-3 Risk Characterization standards
BOLD indicates concentration in excess of applicable Risk Characterization standards

Groundwater samples were collected from CMW-1R, CMW-2, and CMW-3 on December 18, 2003 for analysis of EPH by the DEP Method. Samples were collected using the applicable standard operating procedures included in Appendix 3. Laboratory analytical results and the applicable Method 1 Risk Characterization standards are summarized in Table 7. Original laboratory data, laboratory QA/QC, methods, and chain-of-custody form are included for reference as Appendix 2.

Table 7 Groundwater Analytical Results: December 18, 2003

Analyte	CMW-1R	CMW-2	CMW-3	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatic	239	919	ND	1,000	20,000
C19-C36 Aliphatic	211	502	ND	N/A	20,000
C11-C22 Aromatics	589	1,700	ND	50,000	30,000
2-Methylnaphthalene	ND	ND	ND	10,000	3,000
Fluorene	ND	ND	ND	N/A	3,000
Phenanthrene	ND	ND	ND	N/A	50

Notes: Results are reported for detected analytes only in µg/L
 CMW-1R and CMW-2 are subject to both GW-2 and GW-3 Risk Characterization standards
 CMW-3 is subject to solely the GW-3 Risk Characterization standards
BOLD indicates concentration in excess of applicable Risk Characterization standards

Groundwater samples were collected from CMW-1R, CMW-2, and CMW-3 on February 10, 2004 for analysis of EPH by the DEP Method. Samples were collected using the applicable standard operating procedures included in Appendix 3. Laboratory analytical results and the applicable Method 1 Risk Characterization standards are summarized in Table 8. Original laboratory data, laboratory QA/QC, methods, and chain-of-custody form are included for reference as Appendix 2.

Table 8 Groundwater Analytical Results: February 10, 2004

Analyte	CMW-1R	CMW-2	CMW-3	Method 1 GW-2 Risk Characterization Standards	Method 1 GW-3 Risk Characterization Standards
C9-C18 Aliphatic	1,260	275	ND	1,000	20,000
C19-C36 Aliphatic	566	369	ND	N/A	20,000
C11-C22 Aromatics	526	ND	ND	50,000	30,000
2-Methylnaphthalene	ND	ND	ND	10,000	3,000
Fluorene	ND	ND	ND	N/A	3,000
Phenanthrene	ND	ND	ND	N/A	50

Notes: Results are reported for detected analytes only in µg/L
 CMW-1R and CMW-2 are subject to both GW-2 and GW-3 Risk Characterization standards
 CMW-3 is subject to solely the GW-3 Risk Characterization standards
BOLD indicates concentration in excess of applicable Risk Characterization standards

Based on the most recent analytical results, a condition of "No Significant Risk" is not present for groundwater at the Site. As such, it is the opinion of Coneco that a Response Action Outcome (RAO) cannot yet be achieved at the Site.

2.10 Remediation Waste

Between July 15 and 17, 2002, approximately 40 cubic yards of impacted soil generated as part of the IRA associated with this release were removed from the Site to the ESMI, Inc. facility in Loudon, New Hampshire for proper disposal via thermal processing. The stockpiled soil was removed under a Bill of Lading associated with both the subject release and an additional separate release, identified by Release Tracking Number 3-21892, discovered at another location within Malone Park during a similar UST closure. A combined total of 121.40 tons of impacted soil were removed from the Disposal Site and the nearby release under the Bill of Lading, a copy of which is included for reference as Appendix 5.

On October 21, 2003, Coneco provided oversight for transportation and disposal activities relating to the approximately 10 cubic yard stockpile of petroleum-impacted soil generated during additional IRA excavation activities. On this day, a total of 20.18 tons of impacted soil were removed from the Site under Bill of Lading and transported by Grant to the Aggregate Industries facility in Stoughton, Massachusetts for proper disposal through asphalt batching. Remediation waste generated during additional IRA activities conducted at the Site was managed in accordance with 310 CMR 40.0034. Copies of the Soil Disposal Receipt, Certificate of Recycling, and completed Bill of Lading form (BWSC-012) are included in Appendix 5.

3.0 IRA STATUS REPORT

3.1 Regulatory Status

Concurrent with the above-described soil and groundwater assessment activities, Coneco prepared a Phase I Initial Site Investigation and Tier Classification which was submitted to the DEP NERO on June 27, 2003. According to the completed NRS Scoresheet, the Disposal Site received a score of 247 points, which is below the Tier I cut-off score of 350 points. The Disposal Site meets none of the Tier I Inclusionary Criteria presented in 310 CMR 40.0520(2). Therefore, the Disposal Site has been classified as a Tier II Disposal Site. A copy of the June 27, 2003 Phase I Initial Site Investigation and Tier Classification is available for review at the DEP NERO.

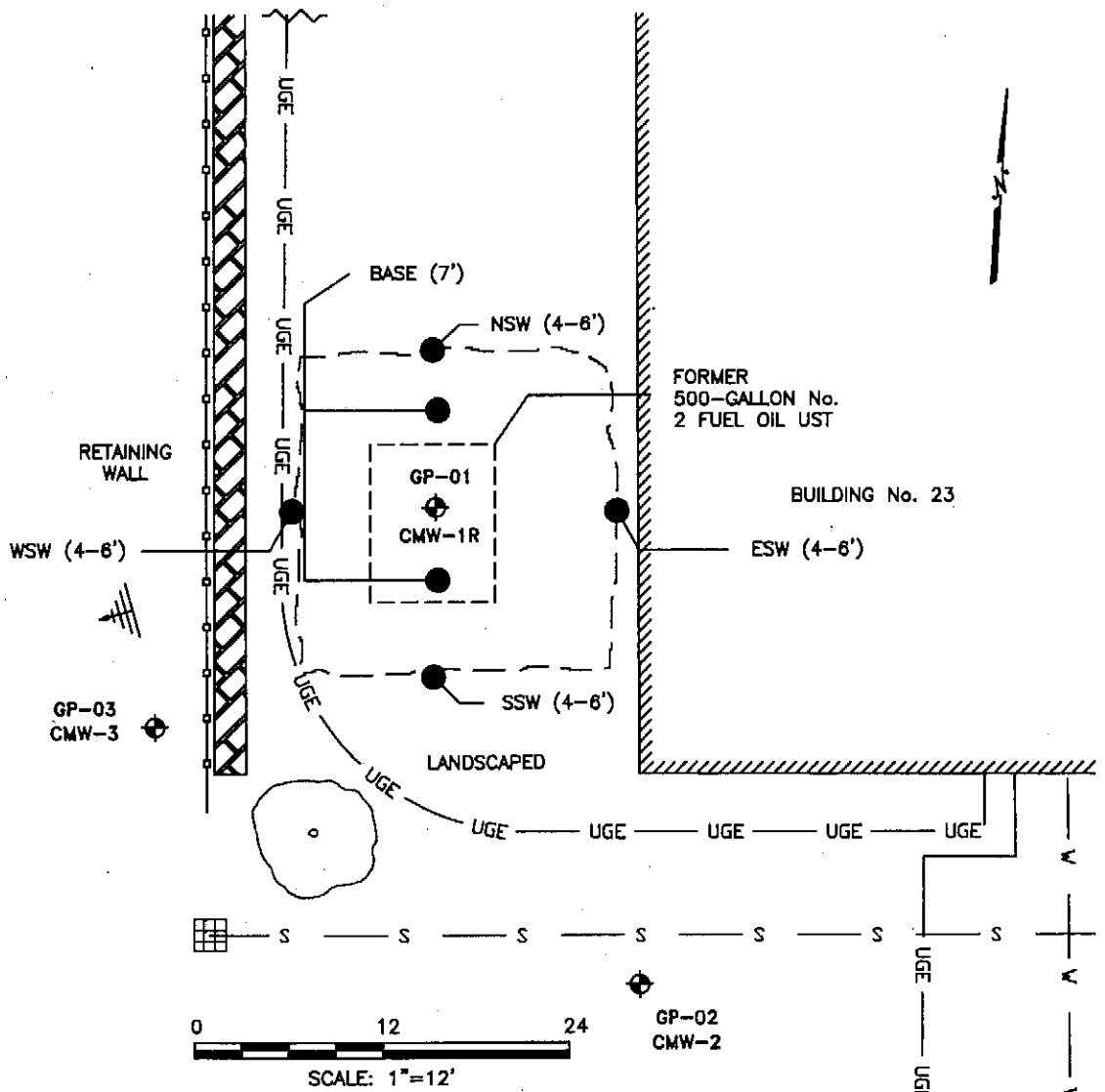
3.2 Future Activities

Based on groundwater analytical results of samples collected following the initial and additional IRA excavation activities, remedial efforts have significantly reduced concentrations of EPH in groundwater at the Site. As indicated by the most recent sampling round completed on February 10, 2004, concentrations of EPH in groundwater samples collected from the Site are in excess of the applicable GW-2/3 Method 1 Risk Characterization standards. As the DEP specifically recommends that multiple groundwater samples be taken over a period of time in order to calculate Exposure Point Concentrations for the purpose of Risk Characterization, at least four rounds of post-remediation groundwater monitoring will be completed at the Site.

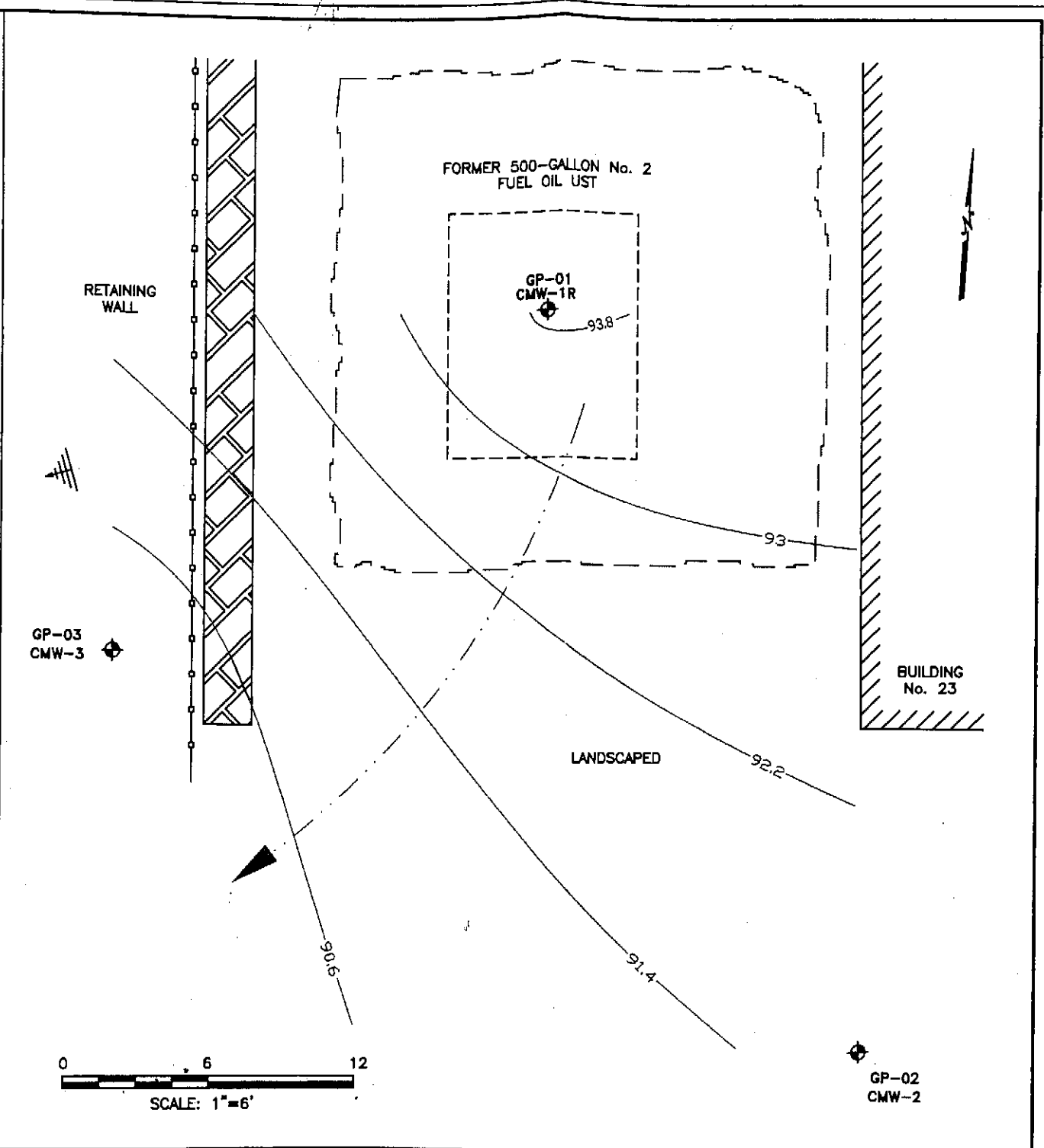
Groundwater samples will be collected from monitoring wells located at the Site using appropriate DEP sampling protocols and screened in the field for temperature, pH, and specific conductivity. Samples will be submitted to an independent Massachusetts-certified laboratory for analysis of EPH using the Massachusetts DEP Method. Following the collection of this additional data, Coneco will determine if remaining petroleum concentrations at the Site, if any, represent a condition of "No Significant Risk" and meet the requirements for a Class A Response Action Outcome.

3.3 Required Permits

Pursuant to 310 CMR 40.0421, prior notice and approval from the Department is not required to conduct the above-described groundwater monitoring. An Imminent Hazard condition has not been identified at the Site. Excavated soil has been managed and disposed of in accordance with 310 CMR 40.0030 and 310 CMR 40.0034. Previous notification requirements have been completed within the timeframes required by 310 CMR 40.0032. An Immediate Response Action Transmittal Form (BWSC-105) is appended to this IRA Status Report.



LEGEND			
--- ---	APPROXIMATE EXCAVATION LIMITS	●	FIELD SCREENING AND COMPOSITE CONFIRMATORY SOIL SAMPLE LOCATION
→ UGE →	UNDERGROUND ELECTRICAL CONDUIT	GP-01	GEOPORBE SOIL BORING AND GROUNDWATER MONITORING WELL LOCATION
— S —	UNDERGROUND SEWER LINE	CMW-1	
— W —	UNDERGROUND WATER LINE		
— 90.6 —	GROUNDWATER CONTOUR WITH ELEVATIONS IN FEET		
← ··· ···	APPROXIMATE GROUNDWATER FLOW DIRECTION		
☐	STORM WATER CATCHBASIN	≡	DOWNSLOPE INDICATOR



4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3181

SITE PLAN

**FERNALD CENTER-MALONE PARK
BUILDING 23
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-21893**

	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
BY	JSS	BFK	pl://brwdrwg/0701.21.200.dwg	AS NOTED	4701	FIGURE 2
DATE	01/21/03	01/21/03				

EXHIBIT C-9

RTN 3-0015149, Powerplant

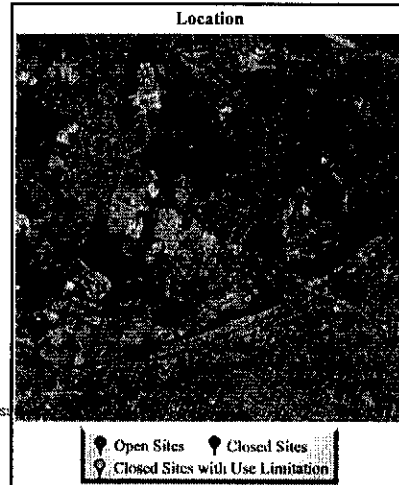
Site Information			
Site Number:	3-0015149	Category:	72 HR
Site Name:	POWERPLANT	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	7/11/1997
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	
Official notification date:	5/30/1997	Location type:	STATE
Initial status date:	5/30/1998	Source:	UST

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	7/11/1997
RAO class:	B1
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	ASSESS - IRA Assessment Only
Submittal Date:	5/30/1997
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	5/30/1997
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
GASOLINE	250	PPMV

LSPs	
LSP#	Name
9092	O'BRIEN, JAMES B
N/A	O'BRIEN, JAMES D

RAO Detail			
Class	Method	GW Category	Soil Category
B1	1	2	1
B1	1	2	1



Imagery ©2009 DigitalGlobe, GeoEye, MassGIS, Commonwealth of Massachusetts

Response Action Outcome (RAO) Statement
Massachusetts Department of Mental Retardation
Walter E. Fernald School B-1
1,000 Gallon Gasoline Underground Storage Tank
200 Trapelo Road W.A.C.
Waltham, Massachusetts
RTN# 3-15149
VERTEX Project No. 0405

VERTEX

Prepared for:

Massachusetts Department of
Environmental Protection,
Northeast Regional Office
10 Commerce Way
Woburn, MA 01801

June 30, 1997

VERTEXSM
Engineering Services, Inc.

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102 West 85th Street, Suite 7H
New York, NY 10024
Office (212) 721-8011
Fax (212) 721-6353

June 30, 1997

Massachusetts Department of Environmental Protection,
Northeast Regional Office
10 Commerce Way
Woburn, MA 01801

RE: **Response Action Outcome (RAO) Statement**
Massachusetts Department of Mental Retardation
Walter E. Fernald School
1,000 Gallon Gasoline Underground Storage Tank
200 Trapelo Road
Waltham, Massachusetts
RTN# 3-15149
VERTEX Project No. 0405

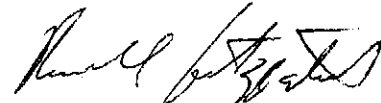
To whom it may concern:

VERTEX Engineering Services, Inc. (VERTEX) has been retained by the Massachusetts Department of Mental Retardation to conduct Licensed Site Professional Services at the above referenced site. This document serves as a Response Action Outcome Statement and is submitted to the Department pursuant to 310 CMR 40.1000 as supporting documentation for a Class B-1 RAO. In addition, please find the Response Action Outcome (RAO) Statement (BWSC-104) Transmittal Form.

Please do not hesitate to contact the undersigned should you have any questions or comments. Thank you.

Sincerely,

VERTEX Engineering Services, Inc.



Russell Fitzpatrick
Senior Project Manager



James B. O'Brien, L.S.P.
President

cc: Mr. George Atamian, P.E.
Massachusetts Department of
Mental Retardation

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Massachusetts Department of Mental Retardation

Walter E. Fernald School

200 Trapelo Road

Waltham, Massachusetts

RTN# 3-15149

VERTEX Project No. 0405

1.0 INTRODUCTION

This Class B-1 Response Action Outcome (RAO) Statement has been prepared by Vertex Engineering Services, Inc. (VERTEX) to document a condition of "No Significant Risk" which has been achieved at a release site (DEP RTN#3-15149), at a property referenced as the Walter E. Fernald School at 200 Trapelo Road, Waltham, Massachusetts (site). This RAO is being submitted to the Massachusetts Department of Environmental Protection (MADEP) as required by the Massachusetts Contingency Plan (MCP) in response to the above referenced release.

On May 29, 1997, Vertex Engineering Services, Inc. (VERTEX), under contract with the Massachusetts Department of Mental Retardation (MDMR) observed the removal of a 1,000 gallon Underground Storage Tank (UST). The UST was historically used to store gasoline which supplied a generator within the adjacent power plant building. The actual removal was conducted by Keystone Environmental Services, Inc of 77 Accord Park Drive, Norwell, Massachusetts (Keystone).

The release at the site was originally reported to the Massachusetts Department of Environmental Protection (MADEP) on May 30, 1997 due to a photoionization detector (PID) reading of 250 parts per million (ppm) during headspace analysis of soil from the bottom of the excavation. This situation required notification to the MADEP within seventy two hours pursuant to the Massachusetts Contingency Plan 310 CMR 40.0313 (2).

Discrete soil samples were obtained from each side wall and from the bottom of the excavation. A composite soil sample was homogenized and collected. This composite and three discrete samples (two from the side walls and one from the bottom of the excavation), were submitted to Woods Hole Laboratories for Analysis of Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Methyl- tert Butyl Ether (MTBE). Results from these analysis are discussed later in this report.

In accordance with the MCP, a Risk Characterization has been performed which documents that a condition of "No Significant Risk" has been achieved at the site. This RAO documents site activities, investigations, analytical results and the Method 1 Risk characterization as required by 310 CMR 40.1056. Specifically, this RAO includes the following sections:

- 1.0 Introduction
- 2.0 RAO Category
- 3.0 General Disposal Site Information
- 4.0 Environmental Remediation Activities
- 5.0 Risk Characterization
- 6.0 Feasibility of Restoration To Background
- 7.0 Conclusions
- 8.0 Qualifications

2.0 RESPONSE ACTION OUTCOME (RAO) CATEGORY

The category of this RAO was determined in accordance with 310 CMR 40.1036. Class B-1 is appropriate to this site for the following reasons:

- 1) Assessment actions indicate that a level of no significant risk exists pursuant to 310 CMR 40.0900.
- 2) Remedial actions are not necessary and have not been conducted.
- 3) No Activity and Use Limitations are required to maintain a level of No Significant Risk..

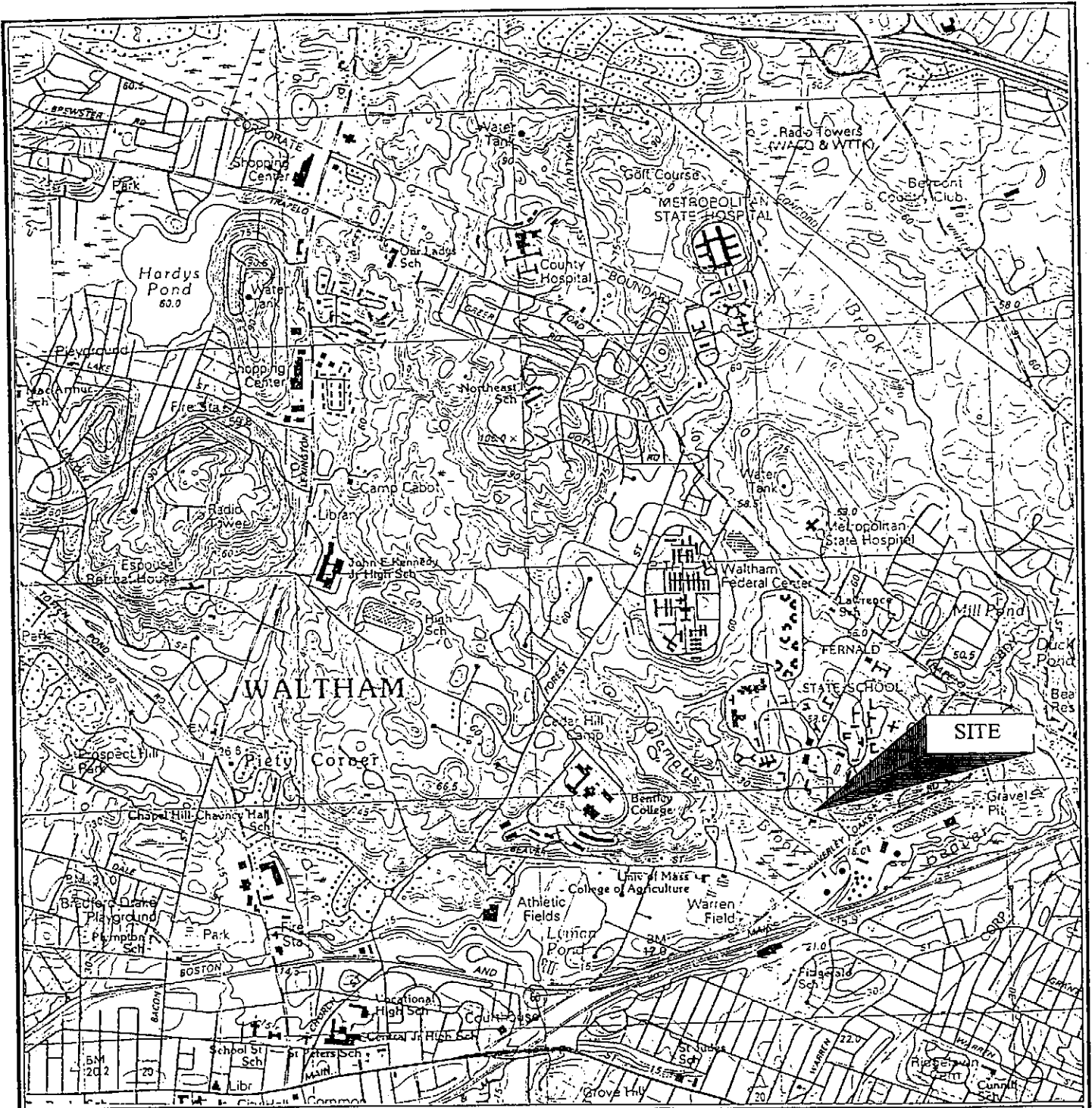
3.0 GENERAL DISPOSAL SITE INFORMATION

The site is located on the campus of the Walter E. Fernald School in Waltham Massachusetts. Specifically, this area occurs between Chapel Street and a building known as the "power plant"; this building is used to supply power to the rest of the Fernald School's on-campus buildings. The former 1,000 gallon gasoline tank was covered by a concrete slab and approximately three feet of soil. Lithology around the former tank mainly consisted of brown, medium to fine sand with cobbles and some boulders. The excavation is bordered to the north and east by the power plant building which is constructed of brick and concrete. A separate RTN # 3-13467, has been assigned to a release of # 6 fuel oil at the power plant building.

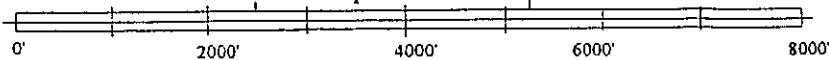
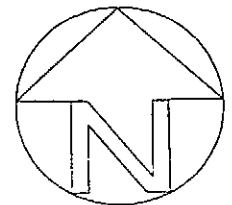
According to Maurice O'Connell of Massachusetts Department of Mental Retardation (MDMR), the tank was bordered to the west by a high pressure steam pipe which is located under an existing concrete slab. This pipe is active and services the power plant building. The southern side of the excavation is adjacent to the east/west access road which serves as the rear entrance for the campus. The road is paved with three inches of asphalt over six inches of concrete. The location of the site is shown on the Boston North, Massachusetts USGS Topographic Quadrangle, dated 1985. Please refer to Figure 1 (Site Locus Map).

In general, the site slopes to the south toward Waverly Oaks Road and the nearby wetland area. The site and surrounding properties are serviced by municipal water. The site is not located within a Current or Potential Drinking Water Source Area or within a Potentially Productive Aquifer.

This RAO addresses RTN #3-15149, which applies to a release site comprised of the former UST, the location of which is shown on Figure-2 (Site Schematic).



USGS Topographic Map, 1985
 Boston North, Quadrangle
 Contour Interval: 10 feet
 1/2 mi. **Graphic Scale** 1 mi.



SITE LOCUS MAP
 Walter E. Fernald School
 200 Trapelo Road
 Waltham, MA

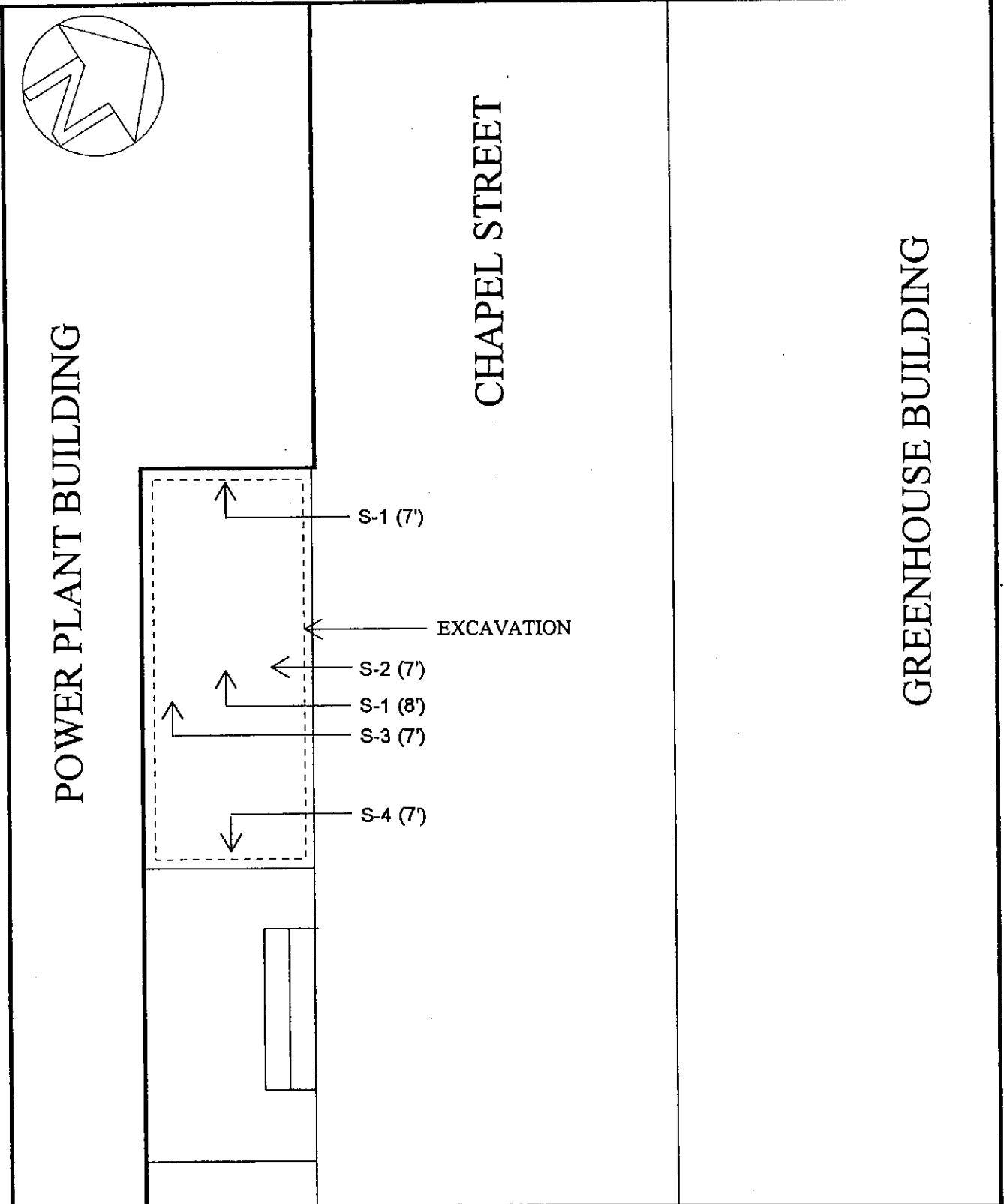
SCALE: AS SHOWN

June 27, 1997

VERTEX Proj. No. 0405

VERTEX

FIGURE NO. 1



SITE SCHEMATIC And Sample Locations Fernald State School Waltham, Massachusetts	SCALE: NOT TO SCALE	VERTEX Engineering Services, Inc. FIGURE NO. 2
	June 30, 1997	
	VERTEX PROJ. NO.0442	

4.0 ENVIRONMENTAL REMEDIATION ACTIVITIES

VERTEX, under contract with the MDMR to perform Licensed Site Professional (LSP) Services, observed the removal of a 1,000 gallon Underground Storage Tank (UST) adjacent to the power plant at the Walter E. Fernald School in Waltham, Massachusetts. The UST was historically used to store gasoline which supplied a generator within the adjacent power plant building. Removal activities were conducted by Keystone Environmental Services, Inc of 77 Accord Park Drive, Norwell, Massachusetts (Keystone).

Prior to the removal of the UST, A permit for the removal of the tank was obtained by Keystone from the Town of Waltham Fire Department a copies of this permit is attached in Appendix B.

On May 20, 1997 the UST was pumped of residual usable product (estimated 50-gallons). The contractor transported the usable product off-site for future use. Removal activities commenced on May 29, 1997. VERTEX was on site at 8:00 a.m. to assess site conditions prior to commencing removal actions of the 1,000 gallon UST. Keystone began uncovering the UST at 8:30 a.m., first breaking through the concrete slab above it and then removing approximately three feet of overlying soil. During removal, soil was continuously screened for Total Organic Vapors (TOVs) which revealed no evidence of contamination.

The tank was observed to be bordered to the south and west by the power plant building which is constructed of brick. According to Maurice O'Connell of MDMR, the tank was bordered to the east by a high pressure steam pipe which is located under an existing concrete slab. This pipe is active and services the power plant building. The northern side of the tank was adjacent to the east/west access road (Chapel Street) which serves as the rear entrance for the campus. The road is paved with three inches of asphalt over six inches of concrete. Utility manholes were also observed and believed to access the power plant building directly underneath the UST.

The UST was slightly lifted to tilt the tank to one side as to aid in the flushing and pumping of any residual product not removed during the previous pumping event. Approximately thirty-five (35) gallons of water and fuel was pumped directly into a 55-gallon DOT drum, which was transported by Zecco Inc. of Northboro Massachusetts to offsite disposal. A uniform hazardous waste manifest documenting the removal and disposal of the drum is attached in Appendix B.

The tank was then monitored for explosive vapors and oxygen content. It was determined that the atmosphere within the tank exceeded 10% of the Lower Explosive Limit (LEL) for gasoline (as defined by OSHA). Therefore, the tank was then vented until the gasoline vapor concentration was lowered to below 10% of the LEL. Dry ice was then poured into the tank to further reduce the risk of explosion during removal activities.

The Waltham Fire Department was contacted prior to removing the UST in accordance with 527 Code of Massachusetts Regulations (CMR) 9.00. A Waltham Fire Prevention Officer witnessed the removal of the UST at approximately 12:00 p.m. Visual inspection of the steel tank revealed that it was slightly

weathered with no apparent areas of significant corrosion or holes. The fill, vent, and feed/return lines were disconnected from the UST which did not contain any residual product. Soil in the vicinity of these lines was visually inspected and field screened utilizing a PID for signs of contamination. Oil absorbent pads were utilized as a precaution to prevent possible leakage from the disconnected pipes.

The tank excavation measured approximately 12 feet long by 7 feet wide and 8 feet deep. Soil lithology around the former tank mainly consisted of brown, medium to fine sand with cobbles and some boulders. Visual and olfactory inspection of soils along the sidewalls of the excavation did not reveal evidence of gasoline contamination. However, soil from the bottom of the excavation did have an odor of gasoline. In addition, groundwater was not encountered within the excavation.

Discrete soil samples were collected from the side walls and from the bottom of the tank excavation and field screened with a PID (see Figure 2.0 – Site Sampling Location Schematic). Field screening of the side-wall soil samples revealed concentrations of TOV's (below 10 ppm). However, TOV's from the soil from the bottom of the excavation were detected at 250 ppm. At the request of MDMR, VERTEX notified the MADEP of the release within the allowed 72 hours of obtaining knowledge of said release as required by 310 CMR 40.000, and obtained verbal approval for the Immediate Response Action (IRA) of assessment of the nature and extent of the release. Soil removal from the bottom of the excavation was prohibited due to the close proximity to the underground utilities. The excavation was lined with polyethylene and backfilled with clean soil.

The tank was photographed and transported off-site for disposal at James G. Grant Co., Inc., a licensed tank yard. A copy of the tank disposal receipt is attached in Appendix B. In addition, please refer to Appendix A: Color Photographic Documentation.

One composite soil sample collected in laboratory supplied sample container was generated from the five soil samples from the tank excavation. This composite sample and all 5 discrete samples were placed on ice in a cooler, and hand delivered to Woods Hole Group (a Massachusetts Certified Laboratory; Formerly Inchcape Testing). All samples were analyzed for BTEX and MTBE. Sample S-1 and the composite sample were additionally analyzed for Total Petroleum Hydrocarbons (TPH) according to EPA Method 8100 Modified. Groundwater was not encountered during excavation activities. Table 1 summarizes field screening and analytical results of the soil samples collected. The laboratory report and chain-of custody documentation are attached in Appendix C.

Table 1- Screening and Analytical Results				
Sample I.D.	Sample Location	TOV's (ppm)	TPH (mg/kg)	BTEX + MTBE (ppm)
S-1	Bottom of Excavation (8' below grade)	250	23.0	Benzene 0.012 U Toluene 0.006 J Ethylbenzene 0.012 U Xylene (Total) 0.046 MTBE 0.320
S-2	Side Wall Toward Street (7' below grade)	5	N/A	Benzene 0.005 U Toluene 0.005 U Ethylbenzene 0.005 U Xylene (Total) 0.005 U MTBE 0.005 U
S-3	Side Wall Toward Building (7' below grade)	ND	N/A	Benzene 0.005 U Toluene 0.005 U Ethylbenzene 0.005 U Xylene (Total) 0.005 U MTBE 0.005 U
S-4	Side Wall Up-Gradient (7' below grade)	7	N/A	Benzene 0.005 U Toluene 0.005 U Ethylbenzene 0.005 U Xylene (Total) 0.005 U MTBE 0.005 U
S-5	Side Wall Down Gradient (7' below grade)	2	N/A	Benzene 0.006 U Toluene 0.006 U Ethylbenzene 0.006 U Xylene (Total) 0.006 U MTBE 0.002 J
Composite	Composite Sample (Samples 1-5)	N/A	28.0	Benzene 0.006 U Toluene 0.006 U Ethylbenzene 0.006 U Xylene (Total) 0.001 J MTBE 0.006 U

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

PPB = Parts Per Billion

U = Analyzed but not found

J = Estimated value, below quantitation limit

5.0 RISK CHARACTERIZATION

This section discusses the characterization of risk posed by the release of gasoline at the site. This characterization has been conducted in accordance with the procedures outlined in 310 CMR 40.0900 of the Massachusetts Contingency Plan (MCP), to demonstrate that a condition of No Significant Risk has been achieved at the site. This risk characterization involves discussions of the following:

- Hazard Identification;
- Exposure Assessment;
- Identification of Soil and Groundwater Categories;
- Selection of Method to Characterize Risk; and
- Characterization of Risk.

5.1 Hazard Identification

As discussed previously, the site is an institutional campus with an identified soil release of gasoline at a depth of approximately eight feet, the gasoline impact is limited to the soil. Confirmatory samples were collected from the excavation to evaluate the extent of gasoline contamination in the soil. Results of the final confirmatory samples with the highest detectable concentrations are shown on Table 1, Section 4.0.

5.2 Exposure Assessment

This section discusses the receptors, site activities and uses, exposure points and exposure point concentrations to assess the exposure that a receptor might receive during contact with impacted media at the site.

Identification of Receptors

As the site is currently and has historically been used as an institutional property, and has a mixture of administration, educational and residential buildings, the use of the property in the foreseeable future is considered to remain the same. Potential human receptors are considered to be adult workers, clients and trespassers.

Identification of Site Activities and Uses

As the site is currently and has historically been used as an institutional property for the mentally retarded. The site is comprised of a mixture of administration, educational and residential buildings, the use of the property in the foreseeable future is considered to remain an educational institution.

As potable water is supplied to the site from municipal sources and no public wells have been identified within ½ mile of the site, use of site water for drinking or washing is not considered applicable to this assessment. Additionally, the site is not located in an area designated as a potentially productive aquifer.

Identification of Exposure Points

Exposure points are the points at which identified receptors would contact identified hazards during site activities/use. For this assessment, it is considered that the receptors could not come into contact with impacted soil due to its depth (8 feet). The tank grave has been backfilled with soil and it will have a concrete slab poured over it within the next two weeks. A wetland does occur to the southwest of the power plant building, which could be a potential environmental receptor. However, as indicated previously, groundwater was not encountered during the excavation of the tank and the impacted soil concentrations are not great enough to be considered a contamination source. Groundwater is not used for potable purposes and exposure to groundwater is not considered an exposure point for this assessment.

Identification of Exposure Pathways

Exposure pathways are the routes by which exposure to the receptors at exposure points could occur. For the purposes of this assessment, site receptors could not be exposed during normal activities at the site. If contact was in some way possible, the exposure pathways would be through dermal contact with soil, ingestion of soil, and inhalation of particulates. As indicated previously, groundwater is not used for potable purposes and completion of an exposure pathway to groundwater is not considered to occur at the site.

Identification of Exposure Point Concentrations

Exposure point concentrations are the concentration of chemicals that receptors could be exposed to during site activities. To determine an exposure point concentration as allowed under 310 CMR 40.0926(3) the highest concentrations of each chemical were considered. These concentrations are displayed on Table-1 Section 4.0. As indicated previously, there is no exposure pathway for groundwater to impact receptors. Therefore, a groundwater exposure point concentration is not applicable.

5.3 Identification of Soil and Groundwater Categories

Soil Category

The site, receptor and exposure information previously discussed has been evaluated to determine the applicable soil category for the site. As on-site workers and clients are included as potential receptors at the site during normal site activities, the highest potential for exposure to soil has been selected as applicable to the site, for conservatism, and to demonstrate that an Activity Use

Limitation (AUL) is not necessary for the Site. As such, the S-1 category, as defined in 310 CMR 40.0933 (5) has been selected.

Groundwater Category

As potable water is supplied to the site from municipal sources and no public wells have been identified within ½ mile of the site, use of site water for drinking or washing is not considered applicable to this assessment. Additionally, the site is not located in an area designated as a potentially productive aquifer. For these reasons the groundwater at the site has been identified as category GW-2.

5.4 Selection of Method to Characterize Risk

A Method 1 Risk Characterization, as described in 310 CMR 40.0970, has been selected to characterize the risk of harm to health, public welfare and the environment at this site, based on the evaluation presented previously. Specifically, the Method 1 characterization is considered applicable to this disposal site for the following reasons:

- 1) Oil materials (OHM) have only been detected in soil.
- 2) All OHM detected at the site are listed in 310 CMR 40.0974 and 40.0975.
- 3) OHM present on-site are not known to bioaccumulate.

5.5 Characterization of Risk

A comparison of the exposure point concentrations to the applicable Method 1 soil (S-1) standards is presented below in Table-2.

Table 2- Screening and Analytical Results				
Sample ID	Sample Location	TOV's (ppm)	TPH (mg/kg)	BTEX + MTBE (ppm)
S-1	Bottom of Excavation (8' below grade)	250	23.0	Benzene 0.012 U Toluene 0.006 J Ethylbenzene 0.012 U Xylene (Total) 0.046 MTBE 0.320
Composite	Composite Sample (Samples 1-5)	N/A	28.0	Benzene 0.006 U Toluene 0.006 U Ethylbenzene 0.006 U Xylene (Total) 0.001 J MTBE 0.006 U
Method 1 Risk Assessment S-1 SOIL & GW-2 Standard	N/A	N/A	500	Benzene 40.0 Toluene 500.0 Ethylbenzene 500.0 Xylene (Total) 500.0 MTBE 100.0

Analytical results of the samples collected from UST excavation and the composite of all five discrete soil samples do not indicate a significant impact of gasoline. All detectable concentrations are below the Method 1 Risk Assessment standards for S-1 Soil & GW-2. As indicated above, detections of TPH in Samples S-1 and the composite sample were 23.0 and 28.0 ppm respectively. These concentrations are well below the applicable Method 1 Risk Assessment Standard of 500 ppm. Also, the highest concentration for BTEX and MTBE constituents were found in Sample S-1, at 0.046 ppm (Total Xylenes) and 0.320 ppm (MTBE). As the above table shows, these concentration are also well below the applicable standard of 500 and 100 ppm respectively. Therefore, no further removal actions are warranted for the site. Based on this risk characterization the site does not pose a risk to public health, safety, welfare. A condition of No Significant Risk, pursuant to 31 CMR 40.0900 has been achieved at the site.

6.0 FEASIBILITY OF RESTORATION TO BACKGROUND

The chemicals of concern at this site are Petroleum Hydrocarbons, BTEX and MTBE. These contaminants are not naturally occurring in soil and are constituents of gasoline. The sources of the contamination detected in soil at the site are no longer present. Therefore, further degradation of the groundwater or subsurface soil is not anticipated.

Additionally, no Exposure Point Concentration greater than the applicable MCP Method 1 Soil or Groundwater Standard exists at the site in the area of the former 1,000 gallon UST. Therefore, a condition of no significant risk of harm to health, public welfare and the environment exists.

7.0 CONCLUSIONS

The following conclusions were made based upon the Method 1 Risk Characterization of site conditions at the subject site:

- 1) Current exposure point concentrations of TPH, BTEX and MTBE in site soil meet S-1 Soil & GW-2 soil standards.
- 2) The site does not pose a risk of harm to health, public welfare and the environment.
- 3) A condition of No Significant Risk as defined by 310 CMR 40.0973(7) exists at the site.
- 4) No Activity and Use Limitations are necessary for this site.

8.0 QUALIFICATIONS

Our 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. VERTEX 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.

It must be recognized that environmental investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site investigation. All site subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the limited investigation. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated.

The conclusions presented in this report are professional opinions based solely upon visual observations and supplemental testing of soil and/or groundwater at the site. Our interpretation of the available historical information and documents reviewed, as described in this report, were also considered in the conclusions. VERTEX relied upon but did not attempt to independently verify the validity or accuracy of the findings and conclusions noted in the documentation reviewed.

This report is intended for the sole use of the Massachusetts Department of Mental Retardation (MDMR). The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

It should be noted that twenty percent (20%) of Response Action Outcome Statements and supporting documentation are audited by the Massachusetts Department of Environmental Protection ("the Department"). The Department may conduct Random Audits or Targeted Audits for up to five (5) years following the submission of an RAO Statement. Under certain circumstances, as provided in 310 CMR 40.1110(3), there are no time constraints for Targeted Audits.

Due to the inherent flexibility in interpreting the applicable regulations, the Audits are often subjective and dependent on the opinion of the auditor. As a result, the auditor could require additional assessment of the site and/or remedial action. Based on these considerations, VERTEX is not and will not be responsible for costs or other possible ramifications of additional work required by the Department. MDMR and any other parties with financial or other interests in the subject property are urged to consider these facts.

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION

Photo
1



Photo
2



**PHOTOGRAPHIC
DOCUMENTATION**
Walter E. Fernald School
200 Trapelo Road, Waltham MA

VERTEX PROJ. NO. 0405

June 30, 1997

VERTEX
Engineering Services, Inc.

Description of Photographs

1. Photograph 1 depicts 1000 gallon UST in place.
2. Photograph 2 depicts the 1000 gallon UST after removal.
3. Photograph 3 depicts the tank grave of the former 1000 gallon UST.
4. Photograph 4 depicts the area in where the UST was formally located.

Photo
3



Photo
4



**PHOTOGRAPHIC
DOCUMENTATION**
Walter E. Fernald School
200 Trapelo Road, Waltham MA

VERTEX PROJ. NO. 0405

June 30, 1997

VERTEX
Engineering Services, Inc.

APPENDIX B
PERMITS, MANIFESTS AND RECIEPTS

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: 50.00

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

Tank Owner

Tank Owner Name (please print) Comm of MA, DMR X _____
Address 160 No Washington St Boston MA 02114
Street City State Zip

Removal Contractor

Company Name Keystone Environmental
Address 77 Accord Park Drive Norwell, MA
Street City State Zip
Signature (if applying for permit) [Signature] 021061
 IFCI Certified Other _____

Contamination Assessment

Co. or Individual VERTEX
Address 400 Libbey Freeway
Street City State Zip
Signature (if applying for permit) _____
 IFCI Certified LSP # _____ Other _____

Tank Information

Tank Location 200 Trapello Rd (Fernald School) Waltham
Street Address City
Tank Capacity (gallons) 1000 Gallon Substance Last Stored Gasoline
Tank Dimensions (diameter x length) _____
Remarks: _____

Disposal Information

Firm transporting waste Western Environmental State Lic. # MA 416
Hazardous waste manifest # MAG 298033 E.P.A. # MAS000000315
Approved tank disposal yard GRANT Co. Tank yard # 008
Type of inert gas DRY ICE Tank yard address 28 Wollcott St Readville, MA 02137

Approvals

City or Town WALTHAM FDID# 17308 Permit# 483
Date of issue 5/19/97 Date of expiration _____
Dig safe approval number: _____
Signature / Title of Officer granting permit [Signature] 5/29/97

Dig Safe Toll Free Tel. Number - 800-322-4844

After removal(s) send Form FP-290R signed by Local Fire Dept. to UST Regulatory Compliance Unit, One Ashburton Place, Room 1310, Boston, MA 02108-1618.

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK

NAME AND ADDRESS JAMES G. GRANT CO. INC.
OF R: 28 WOLCOTT ST.

APPROVED TANK YARD READVILLE, MA 02137

APPROVED TANK YARD NO. #008

Tank Yard Ledger 502 CMR 3.03(4) Number: 9728786



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 Keystone Env. and accepted same in conformance with Massachusetts Fire Prevention 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# 12308 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

Edward V. [Signature] Manager 5-29-97
SIGNATURE TITLE DATE SIGNED

This signed receipt of disposal must be returned to the local head of the fire department FDID# 12308 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

Tank Data

Gallons 1000
Previous Contents Gas
Diameter _____ Length _____
Date Received 5-29-97
Serial # (if available) _____
Tank I.D. # (Form FP-290) _____

Tank Removed From:

200 Trapella Rd.
(No. and Street)
Waltham
(City or Town)
Fire Dept. Permit # 483

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.



DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF HAZARDOUS WASTE
 One Winter Street Boston, Massachusetts 02108

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

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. MA06078943600		Manifest Document No. 101455		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF MENTAL RETARDATION 110 SOUTH WASHINGTON STREET BOSTON, MA 02114		A. State Manifest Document Number MA G 298033		B. State Gen ID 00078943600		C. State Trans ID MA 235 532		D. Transporter's Phone (202) 462-740			
4. Generator's Phone 617-727-5608		5. Transporter 1 Company Name AMERICAN TRANSPORT CO		6. US EPA ID Number MA099 278201		7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address ZERO INC 245 WEST MAIN STREET WINTHROP, MA 01890		10. US EPA ID Number MA0050924495		E. State Trans ID		F. Transporter's Phone		G. State Facility ID (NOT REQUIRED)			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) RQ WASTE FLAMMABLE LIQUIDS WQS (GASOLINE) 3 UN1992 PG II		12. Containers No. Type 2011 (0060) G		13. Total Quantity		14. Unit WUVol		15. Waste No. D016 D001			
16. Additional Descriptions for Materials Listed Above (Include physical state and hazard code)		16. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY PHONE NUMBER 617 727 5608											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that can afford.											
Printed/Typed Name		Signature		Date		Month		Day		Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Date		Month		Day		Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		Month		Day		Year	
19. Discrepancy Indication Space											
20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name		Signature		Date		Month		Day		Year	

COPY 6: GENERATOR MAILS TO DESTINATION STATE

UNIFORM HAZARDOUS WASTE MANIFEST FOR DESTINATION STATE



DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE
One Winter Street Boston, Massachusetts 02108

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

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. MPG178943600	Manifest Document No. 199049	2. Page of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address COMMONWEALTH of MASSACHUSETTS Dept of Metal Refineries 100 North Washington St Boston, MA 02114				A. State Manifest Document Number MA G 298049	B. State Gen. ID 205 Tract 16 RD Waltham		
4. Generator's Phone 617 727-5608				C. State Trans. ID MA 259 RT	D. Transporter's Phone 617 781-6340		
5. Transporter 1 Company Name RED CENTRAL MAT INC of RI		6. US EPA ID Number RED 980906986	E. State Trans. ID RI 04099352		F. Transporter's Phone 617 781-6340		
7. Transporter 2 Company Name		8. US EPA ID Number	G. State Facility's ID NOT REQUIRED		H. Facility's Phone 617 781-6340		
9. Generator Facility Name and Site Address NORTHLAND ENVIRONMENTAL INC 275 ALLENS AVE PROVIDENCE, RI 02905-5003		10. US EPA ID Number RED 04099352					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) RD Waste Flammable Liquid, N.O.S. (GASOLINE) 3 UN 1993 PG II				12. Containers No. and Type 004 DM XX220 G	13. Total Quantity DOO1 DO18	14. Unit WuVol	Waste No.
15. Additional Descriptions for Materials Listed Above (include physical state and hazard code) GASOLINE/WATER MIX				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY, CALL KEYSTONE ENVIRONMENTAL @ 617-782-3990							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Maurice O'Connell Signature: <i>Maurice O'Connell</i> Date: 06/22/91				Date: 06/22/91			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: John Medeiros Signature: <i>John Medeiros</i> Date: 06/22/91				Date: 06/22/91			
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: _____							

COPY > B GENERATOR MAILED TO DESTINATION STATE

Generator Waste Profile Form

A. GENERAL INFORMATION

GENERATOR NAME: Comm of MASS Dept of Mental Retardation

FACILITY ADDRESS: 160 No. Washington St Boston, MA 02114

GENERATOR U.S. EPA ID# RI011709436FF

GENERATOR CONTACT: James Ciardello TITLE: Operations Manager PHONE: 617 874-3600 x 2104

GENERATORS COMMON NAME FOR WASTE: WASTE GASOLINE AND WATER

PROCESS GENERATING WASTE: TANK CLEANING / BOTTOM PUMP OUTS

BILL TO: Keystone ENV. Svcs.

CUSTOMER CONTACT: Kevin J Peterson

CUSTOMER PHONE: (617) 792-3990

B. PHYSICAL CHARACTERISTICS OF WASTE

VISCOSITY	COLOR	ODOR	PHYSICAL STATE @ 70°F		LAYERS
<input type="checkbox"/> HIGH <input type="checkbox"/> MED <input checked="" type="checkbox"/> LOW	<u>VARIES</u>	<input type="checkbox"/> NONE <input type="checkbox"/> MILD <input checked="" type="checkbox"/> STRONG DESCRIBE: <u>GAS</u>	<input type="checkbox"/> THICK VISCOUS LIQUID <input type="checkbox"/> LIQUID WITH NO SETTLED SOLIDS <input checked="" type="checkbox"/> LIQUID WITH LESS THAN 10% SETTLED SOLIDS <input type="checkbox"/> LIQUID WITH GREATER THAN 10% SETTLED SOLIDS	<input type="checkbox"/> SOLID WITHOUT FREE LIQUIDS <input type="checkbox"/> POWDER/DUST/ASH <input type="checkbox"/> SOIL	<input type="checkbox"/> MULTI-LAYERED <input checked="" type="checkbox"/> BI-LAYERED <input type="checkbox"/> SINGLE PHASE <input type="checkbox"/> EMULSION
FREE LIQUIDS		SPECIFIC GRAVITY AT 70°F		FLASH POINT	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO VOLUME: <u>100</u> %		<input type="checkbox"/> < 0.8 <input type="checkbox"/> N/A <input checked="" type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.0-1.3 <input type="checkbox"/> 1.0-1.3 <input type="checkbox"/> > 1.6		<input checked="" type="checkbox"/> < 70°F <input type="checkbox"/> 70-100°F <input type="checkbox"/> 101-140°F <input type="checkbox"/> 141-200°F <input type="checkbox"/> > 200°F <input type="checkbox"/> None	
				pH	
				<input type="checkbox"/> 0-2 <input type="checkbox"/> N/A <input type="checkbox"/> 2.1-4 <input type="checkbox"/> 7.1-10 <input checked="" type="checkbox"/> 4.1-6.9 <u>5-10</u> <input type="checkbox"/> 10.1-12.5 <input type="checkbox"/> Neutral (7) <input type="checkbox"/> > 12.5	

C. COMPOSITION (INCLUDE INERT COMPONENTS, DEBRIS, ROCKS, PIPES)
(must total 100%)

<u>GASOLINE</u>	<u>> 90</u> %
<u>WATER</u>	<u>< 10</u> %

H. METALS TOTAL (PPM) TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

ARSENIC (As)	<u>< 5.0</u>	SELENIUM (Se)	<u>< 1.0</u>
BARIUM (Ba)	<u>< 100</u>	SILVER (Ag)	<u>< 5.0</u>
CADMIUM (Cd)	<u>< 1.0</u>	COPPER (Cu)	<u>N/A</u>
CHROMIUM (Cr)	<u>< 5.0</u>	NICKEL (Ni)	↓
CHROMIUM HEX (Cr + 6)	<u>< 5.0</u>	ZINC (Zn)	↓
LEAD (Pb)	<u>< 5.0</u>	TIN (Sn)	↓
MERCURY (Hg)	<u>< 0.2</u>	OTHER	↓

I. OTHER COMPONENTS

	No	Yes	Total ppm	No	Yes	Total ppm
PCB's	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Chelators	<input checked="" type="checkbox"/>	
Cyanides	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Reactives	<input checked="" type="checkbox"/>	
Sulfides	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oil & Grease	<input checked="" type="checkbox"/>	
Pesticides	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Biological	<input checked="" type="checkbox"/>	
Phenolics	<input checked="" type="checkbox"/>	<input type="checkbox"/>		OSHA Carcinogens	<input type="checkbox"/>	<u>1 BENZENE</u>
Dioxins	<input checked="" type="checkbox"/>	<input type="checkbox"/>		F001-F005 Solvents	<input checked="" type="checkbox"/>	

D. DEPT. OF TRANSPORTATION SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL: YES NO (GASOLINE)

D.O.T. SHIPPING NAME: FLAMMABLE LIQUIDS, N.O.S.

D.O.T. HAZARD CLASS: 3 PGTT

INHA 11/1993 REF TABLE QUANTITY VALUE: 10 lbs

E. SHIPMENT METHOD

BULK LIQUID BULK SOLID DRUM (SIZE) 55 GALLON

OTHER (SPECIFY) _____

F. ANTICIPATED VOLUME

VARIES GALS DRUMS TONS

PER ONE TIME MONTH QUARTER YEAR

G. WASTE DISPOSAL STATUS

U.S. EPA HAZARDOUS WASTE: YES NO WASTE NUMBER(S): DO01, DO18

STATE HAZARDOUS WASTE: YES NO WASTE NUMBER(S): DO01, DO18

J. SAMPLE STATUS

REPRESENTATIVE SAMPLE HAS BEEN SUPPLIED

NORTHLAND ENVIRONMENTAL, INC. HAS WAIVED THE SAMPLE REQUIREMENT FOR THE FOLLOWING REASON

WASTE HAS BEEN PREVIOUSLY RECEIVED BY NORTHLAND ENVIRONMENTAL, INC.

K. OTHER COMMENTS (FOR CUSTOMER'S USE)

L. FOR NORTHLAND ENVIRONMENTAL, INC.

NET CODE: TLFY

I hereby certify that all information submitted to this and all attached documents is complete and accurate to the best of my knowledge and that all known or suspected hazards have been disclosed including any Total Toxic Organics as outlined in the Federal Register. I also certify that the waste is not radioactive, pyrophoric, infectious, explosive or shock sensitive and certify that the sample submitted is representative of the waste stream described here.

Maurice O'Connell GENERATOR SIGNATURE Maurice O'Connell NAME (PRINT) 6/23/97 DATE

SECTION IV. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM EE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER		COLUMN 4: HANDLING CODE						
		<input type="checkbox"/> WW	<input type="checkbox"/> Non-WW	1	2	3	4	5	6	
	Hazardous waste containing one or more of the following California List constituents: <input type="checkbox"/> ALL CALIFORNIA LIST CONSTITUENTS <input type="checkbox"/> Liquids with nickel greater than or equal to 134 mg/l <input type="checkbox"/> Liquids with thallium greater than or equal to 130 mg/l <input type="checkbox"/> Liquids with PCB's greater than or equal to 50 ppm <input type="checkbox"/> Waste containing HOC's greater than or equal to 1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>							

SECTION V. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM EE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER		COLUMN 4: HANDLING CODE						
		<input type="checkbox"/> WW	<input type="checkbox"/> Non-WW	3	4	5	6			
		<input type="checkbox"/>	<input type="checkbox"/>							
		<input type="checkbox"/>	<input type="checkbox"/>							
		<input type="checkbox"/>	<input type="checkbox"/>							
		<input type="checkbox"/>	<input type="checkbox"/>							
		<input type="checkbox"/>	<input type="checkbox"/>							

CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
 CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION VI. CONTACT NAME AND DATE

Print name: Maurice O'Connell Date: 6/23/97
 Signature: Maurice O'Connell

SECTION VII. TERMS/DEFINITIONS

- CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).
- CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system.
- CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities for hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land application). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.
- HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGs) or combustion (CMBST) technology.
- WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS), with the following exceptions: (1) F001-F005 wastewaters are solvent-water mixtures that contain less than 1% by weight TOC or less than 1% by weight total F001-F001 constituent listed in the table "Treatment Standards for Hazardous Wastes" in Section 268.40; (2) K011, K013, and K014 wastewaters contain less than 5% by weight TOC and less than 1% by weight TSS, as generated; and (3) K013 and K014 wastewaters contain less than 4% by weight TOC and less than 1% by weight TSS. [See 40 CFR 268.2(f)]

APPENDIX C
LABORATORY ANALYTICAL REPORT



Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

Certification of Results

The enclosed results of analyses are representative of the sample(s) as received by the laboratory. Woods Hole Group Environmental Laboratories (WHG) makes no representations or certifications as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Michael McHenry
Woods Hole Group Environmental Laboratories

Date: 6/6/97

Certificates

Massachusetts MA030
Connecticut PH0141
New Hampshire 220696
Rhode Island 64
California I-2209 (Interim)
New York 11627 (Interim)



Woods Hole Group

Environmental Laboratories

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Fax: 508-822-3288

EPA Method - 8260

Vertex Engineering

ETR Number: 38056

Project: Fernald 0405

Lab ID Number: 38056-1

Sample ID: TANK-5 (S-1) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
5/30/97	N/A	3 Jun 97 5:59 p	EMH	2.45 g	SOIL	B2060302	86%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	12 U
Toluene	6 J
Ethylbenzene	12 U
Xylene (total)	46
Methyl tert-butyl ether (MTBE)	320

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	98%	82%-121%
Toluene-d8	96%	81%-111%
4-Bromofluorobenzene	93%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



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EPA Method - 8260

Vertex Engineering

ETR Number: 38056

Project: Fernald 0405

Lab ID Number: 38056-2

Sample ID: TANK-5 (COMPOSITE) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
5/30/97	N/A	3 Jun 97 6:23 a	EMH	5.07 g	SOIL	B2060202	90%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	6 U
Toluene	6 U
Ethylbenzene	6 U
Xylene (total)	1 J
Methyl tert-butyl ether (MTBE)	6 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	97%	82%-121%
Toluene-d8	98%	81%-111%
4-Bromofluorobenzene	98%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



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EPA Method - 8260

Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97	EMH	1	SOIL	B2060302	100%

Concentration units ug/Kg

Blank Spike Q2060301				Blank Spike Dup Q2060302			
SAMPLE ID:							
Compound	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	43	87%	45	90%	3.2%	59-172%
Benzene	U	45	90%	46	93%	2.7%	66-142%
Trichloroethene	U	46	93%	48	97%	4.4%	62-137%
Toluene	U	46	92%	47	94%	2.9%	59-139%
Chlorobenzene	U	46	92%	47	94%	2.2%	60-133%

* = Recovery outside limits.



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EPA Method - 8260

Quality Control Report

Lab ID Number: B2060302

Sample ID:		Method Blank					
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97 3:50 p	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	98%	82%-121%
Toluene-d8	101%	81%-111%
4-Bromofluorobenzene	101%	69%-117%

Key: U - Analyzed but not found.
J - Estimated value, below quantitation limit.
N/A - Not Applicable.



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Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97	EMH	1	SOIL	B2060202	100%

Concentration units ug/Kg

Blank Spike Q2060203				Blank Spike Dup Q2060204			
SAMPLE ID:							
Compound	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	45	89%	44	88%	1.4%	59-172%
Benzene	U	45	90%	44	88%	2.1%	66-142%
Trichloroethene	U	47	94%	47	94%	0.6%	62-137%
Toluene	U	45	91%	45	90%	1.0%	59-139%
Chlorobenzene	U	43	86%	43	86%	0.3%	60-133%

* = Recovery outside limits.



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EPA Method - 8260

Quality Control Report

Lab ID Number: B2060202

Sample ID:		Method Blank					
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97 2:09 a	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g}/\text{Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	99%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	100%	69%-117%

Key: U - Analyzed but not found.
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N/A - Not Applicable.



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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Vertex Engineering

ETR Number: 38056

Lab ID Number: 38056-1

Project: Fernald 0405

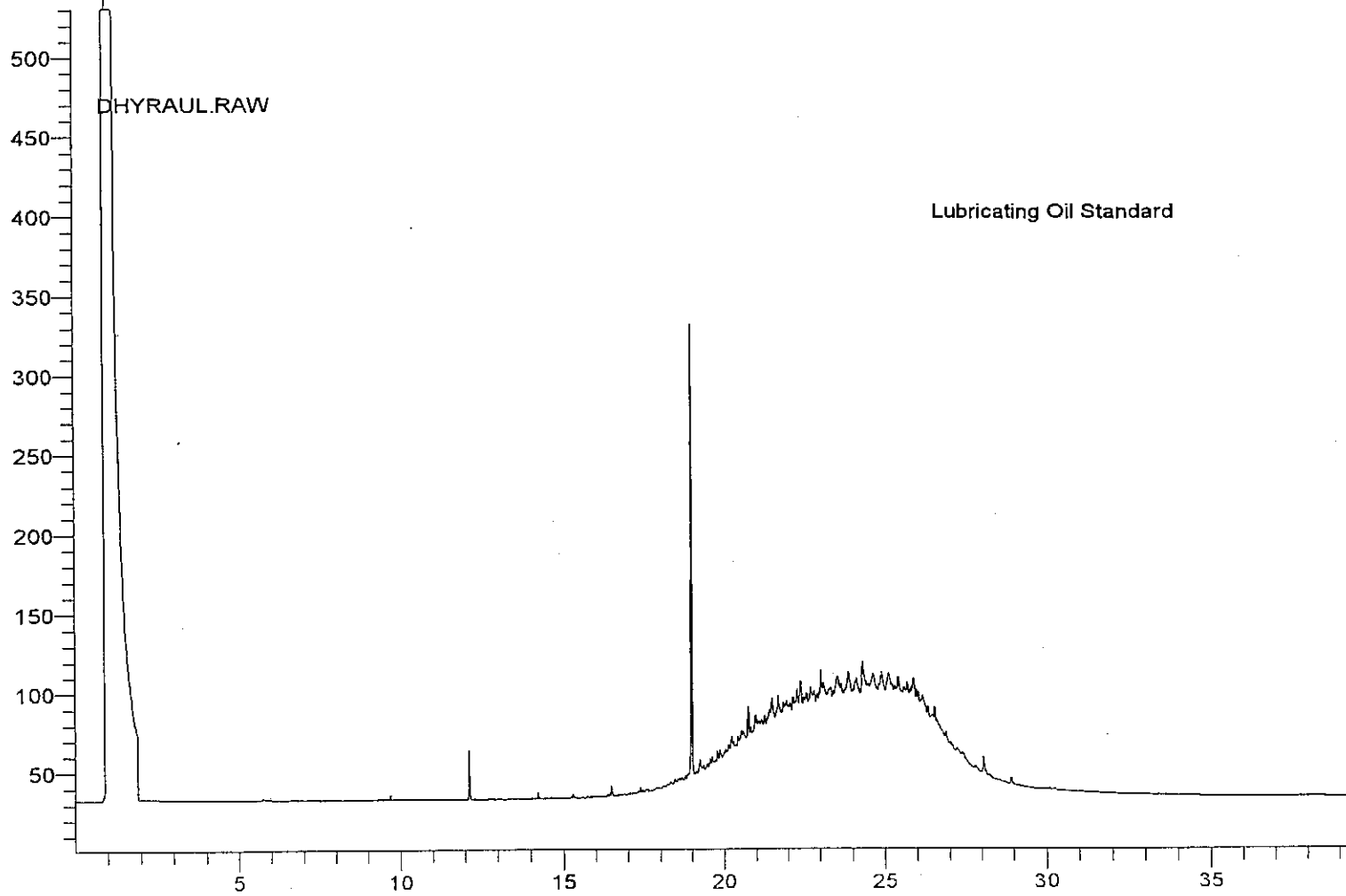
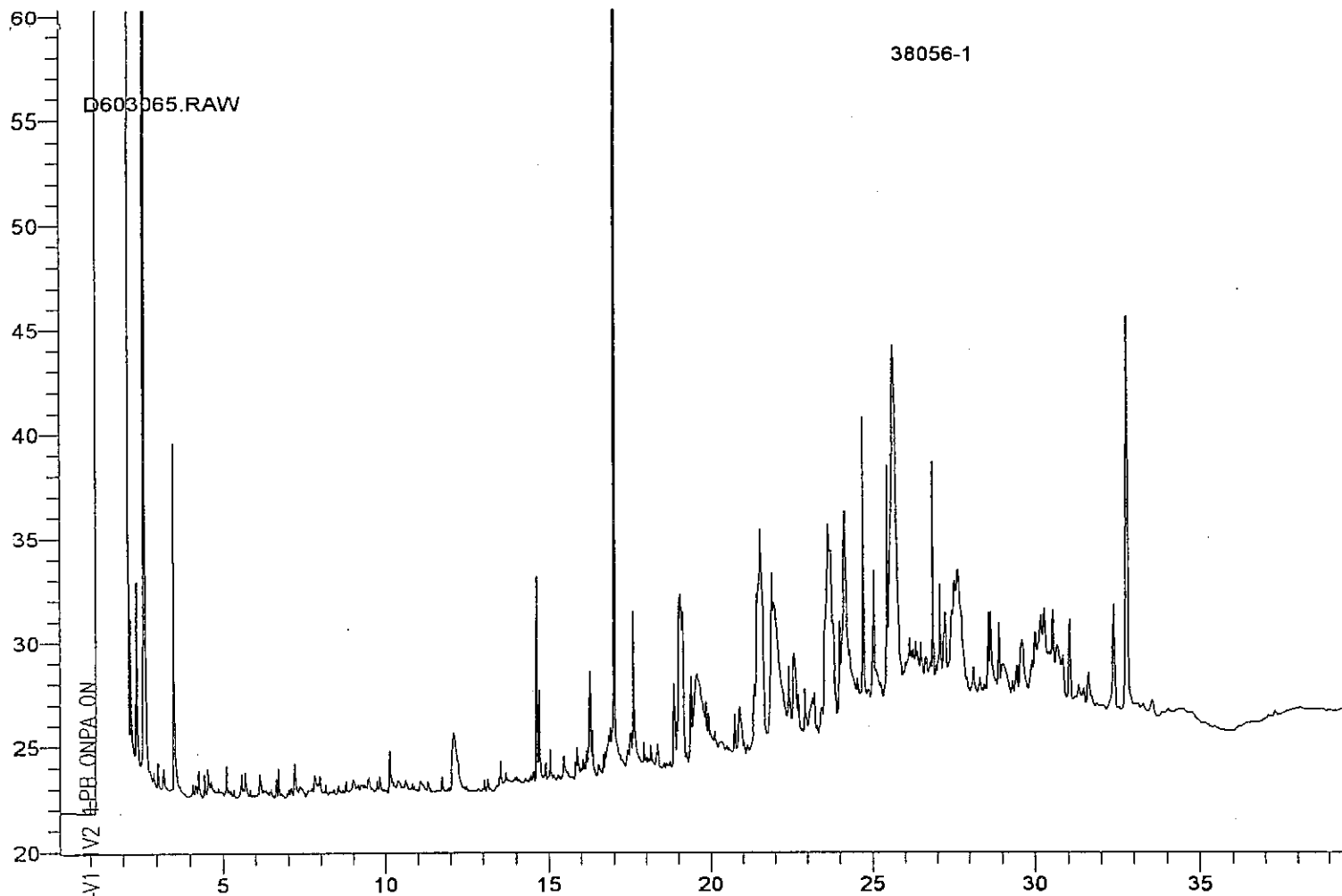
Sample ID: TANK-5 (S-1) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
5/30/97	6/3/97	6/5/97	NLJr	1	SOIL	TS0603B1	86%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<19
C19-C36 Hydrocarbons	23
Total Petroleum Hydrocarbons	23

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	55%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to high molecular weight components in the lubricating oil range.





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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Vertex Engineering

ETR Number: 38056

Project: Fernald 0405

Lab ID Number: 38056-2

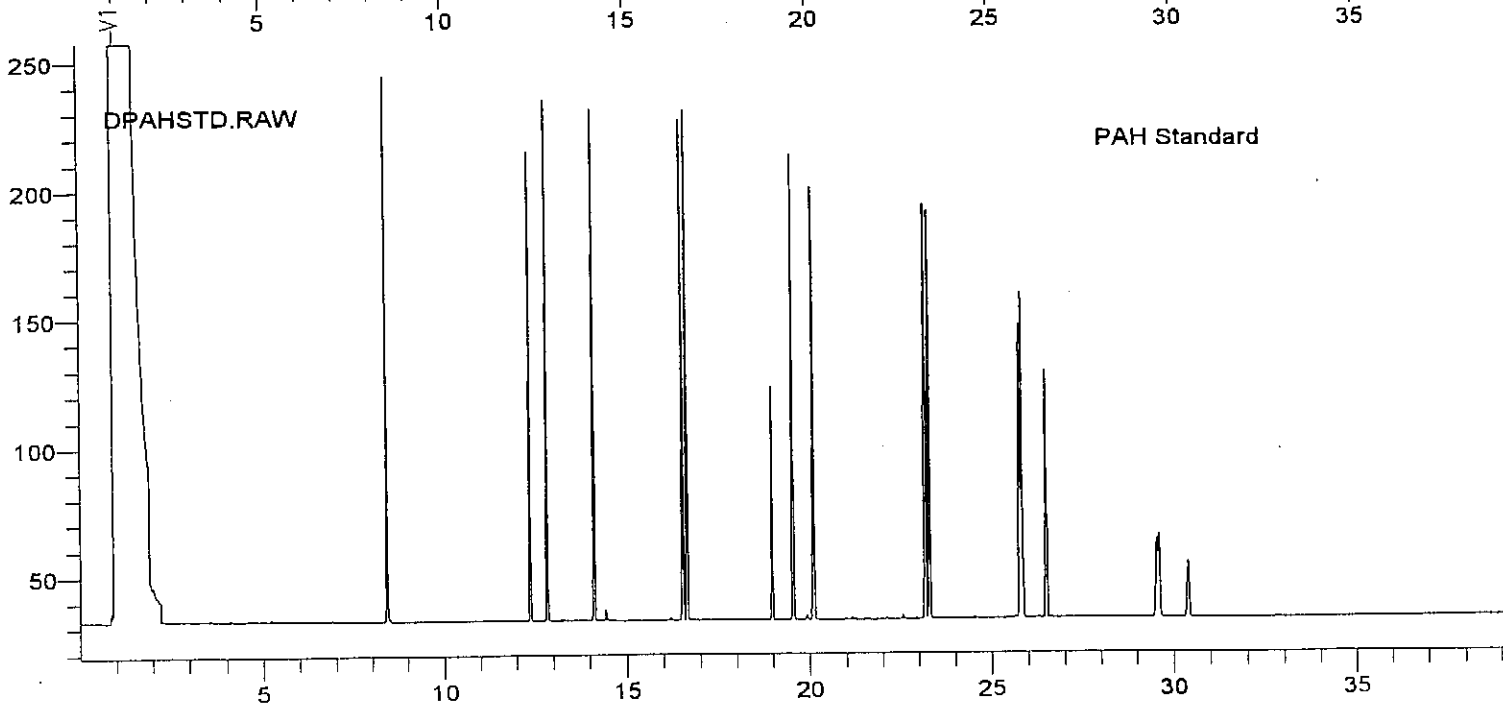
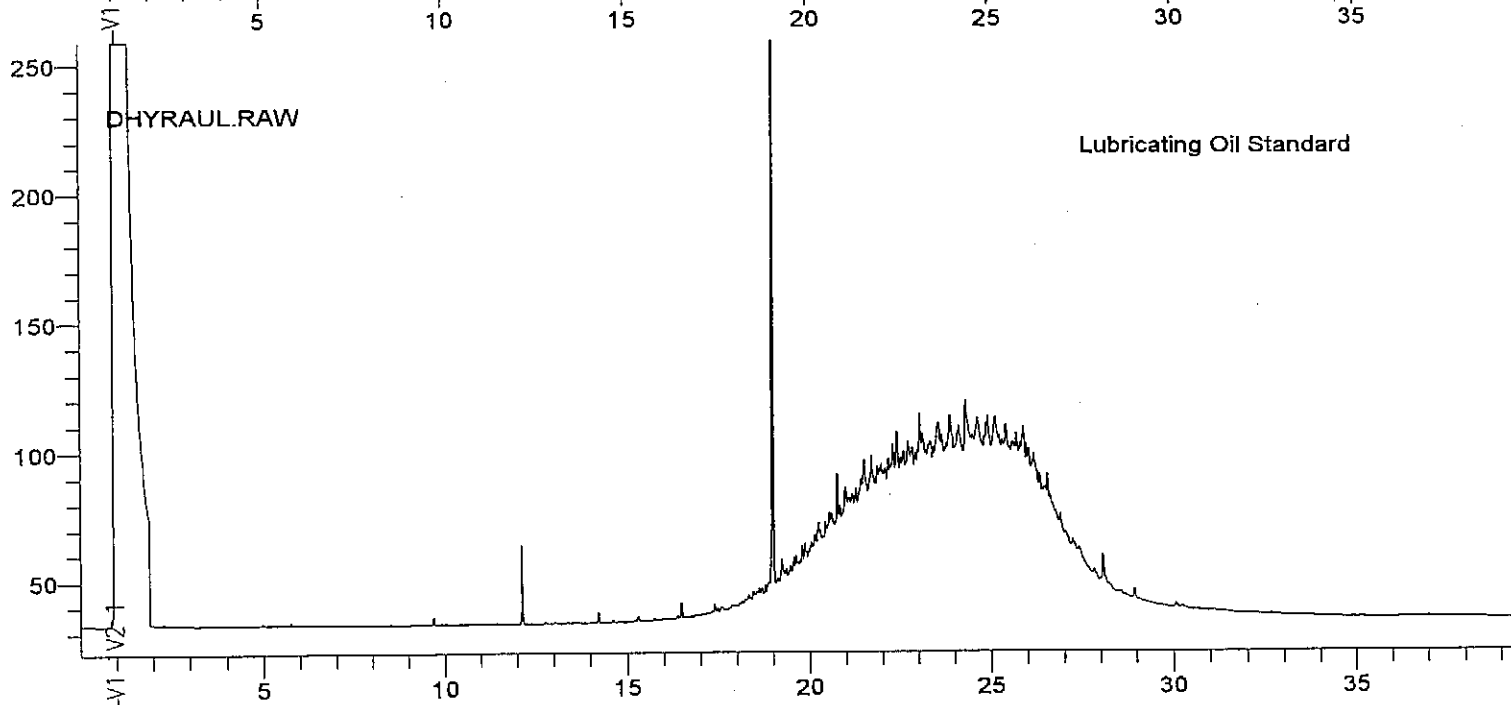
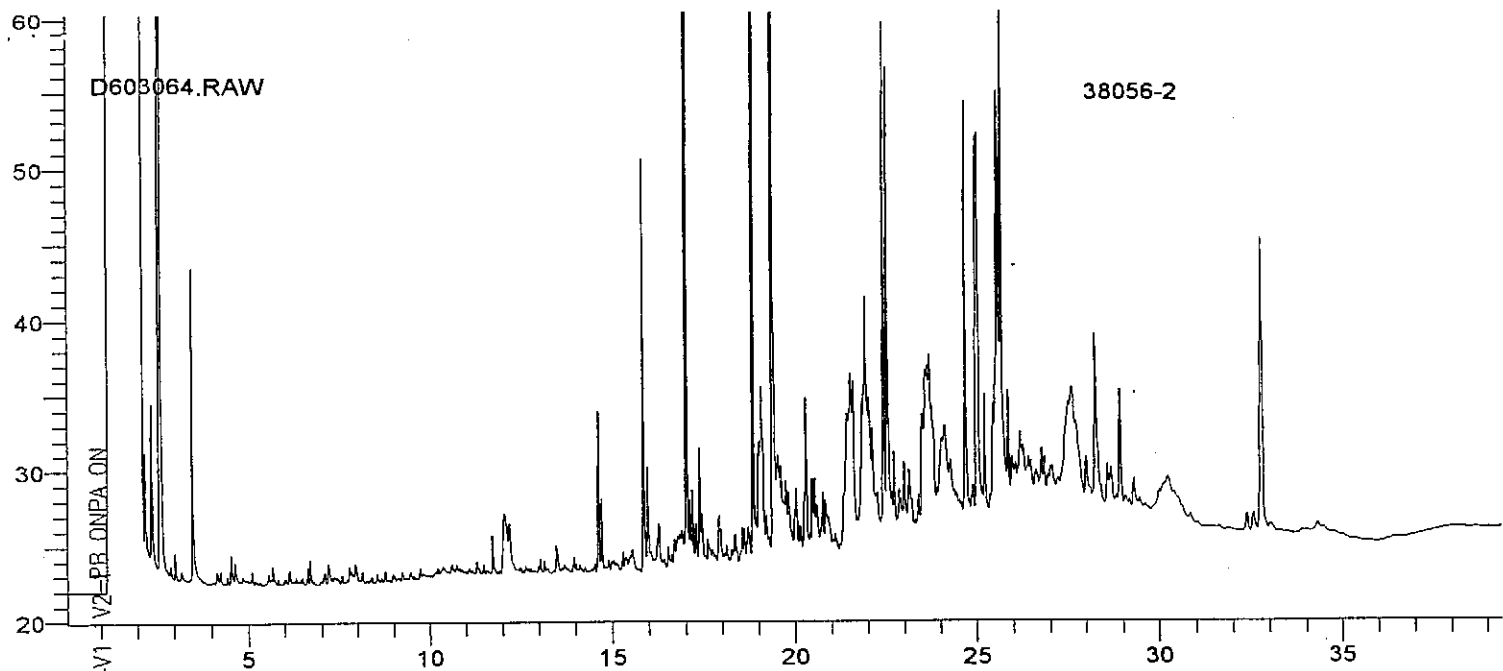
Sample ID: TANK-5 (COMPOSITE) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
5/30/97	6/3/97	6/5/97	NLJr	1	SOIL	TS0603B1	90%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<18
C19-C36 Hydrocarbons	28
Total Petroleum Hydrocarbons	28

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	60%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.





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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Quality Control Report

Lab ID Number: TS0603B1

Sample ID: Method Blank							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	6/3/97	6/5/97	NLJr	1	SOIL	N/A	100%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<17
C19-C36 Hydrocarbons	<17
Total Petroleum Hydrocarbons	<17

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	78%	25%-120%



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Total Petroleum Hydrocarbons by GC/FID

Sample ID:		Laboratory Control Spike					
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	6/3/97	6/5/97	NLJr	1	SOIL	TS0603B1	100%

Parameter	Results in mg/Kg (ppm)	% Recovery
DIESEL FUEL	179	54%

Amount Spiked: 333 mg/Kg

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	54%	25%-120%

COMPANY INFORMATION

Name: Vortex Engineering
Address: 400 Libbey Pkwy
Weymouth, MA 02189
Telephone: 617-335-6361
Facsimile: 617-335-3543
Contact Name: Jaen Flich

COMPANY'S PROJECT INFORMATION

Project Name: BRAD Fenwick
Project Number: 0405
P.O. # 153
Sampler Name(s): Jaen Flich

SHIPPING INFORMATION

Carrier: _____
Airbill Number: Sung
Date Shipped: _____
Quote #: _____

TAT — 10 Day — 5 Day — 3 Day — 48 Hr — 24 Hr — Other

ITS LAB #	SAMPLE ID (NOTE 1)	COLLECTION		COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	NUMBER OF CONTAINERS	
		DATE	TIME				902 Glass	402 Glass
38056-1	Tank-5 (S-1)	5/29/97	12:00		Soil	TPH 8100 M, BTEX	1	1
38056-2	Tank-5 (Composite)	5/29/97	12:40	Comp.	Soil	TPH 8100 M, BTEX	1	1

Relinquished by: (signature) _____ TIME 5/29/97 11:50 Received by: (signature) Ed Butler

Relinquished by: (signature) _____ DATE 5/29/97 2:30 Received by: (signature) A. TANSWAN

Relinquished by: (signature) _____ DATE _____ Received for Laboratory by: (signature) _____

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H₂SO₄

Notes to Lab: _____



Woods Hole Group

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Approved by:

Edward B. Zeehan

Woods Hole Group Environmental Laboratories

Date: 6-12-97

Certificates

Massachusetts MA030
Connecticut PH0141
New Hampshire 220696
Rhode Island 64
California I-2209 (Interim)
New York 11627 (Interim)



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EPA Method - 8260

Vertex Engineering

ETR Number: 38135

Project: Fernald 0405

Lab ID Number: 38135-1

Sample ID: TANK-5(S-2) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
6/9/97	N/A	6/10/97 23:43	EMH	5.1 g	SOIL	B2061002	94%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	99%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	102%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



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EPA Method - 8260

Vertex Engineering

ETR Number: 38135

Project: Fernald 0405

Lab ID Number: 38135-2

Sample ID: TANK-5(S-3) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
6/9/97	N/A	6/11/97 0:16	EMH	5.17 g	SOIL	B2061002	91%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	100%	82%-121%
Toluene-d8	99%	81%-111%
4-Bromofluorobenzene	99%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



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EPA Method - 8260

Vertex Engineering

ETR Number: 38135

Project: Fernald 0405

Lab ID Number: 38135-3

Sample ID: TANK-5(S-4) 05/29/97 @1200(SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
6/9/97	N/A	6/11/97 0:49	EMH	5.1 g	SOIL	B2061002	93%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	99%	82%-121%
Toluene-d8	99%	81%-111%
4-Bromofluorobenzene	100%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



Woods Hole Group

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EPA Method - 8260

Vertex Engineering

ETR Number: 38135

Project: Fernald 0405

Lab ID Number: 38135-4

Sample ID: TANK-5(S-5) 05/29/97 (@1200(SOIL))							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
6/9/97	N/A	6/11/97 17:51	EMH	4.95 g	SOIL	B2061102	86%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	6 U
Toluene	6 U
Ethylbenzene	6 U
Xylene (total)	6 U
Methyl tert-butyl ether (MTBE)	2 J

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	100%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	98%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



Woods Hole Group

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Fax: 508-822-3288

EPA Method - 8260

Quality Control Report

Lab ID Number: B2061002

Sample ID: Method Blank							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	6/10/97 22:08	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Dibromofluoromethane	100%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	102%	69%-117%

Key: U - Analyzed but not found.

J - Estimated value, below quantitation limit.

N/A - Not Applicable.



Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

EPA Method - 8260

Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	6/10/97	EMH	1	SOIL	B2061002	100%

Concentration units ug/Kg

Blank Spike Q2061001				Blank Spike Dup Q2061002			
SAMPLE ID:	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	52	103%	43	86%	17.8%	59-172%
Benzene	U	52	104%	44	87%	17.9%	66-142%
Trichloroethene	U	52	104%	45	89%	14.8%	62-137%
Toluene	U	52	103%	44	89%	15.3%	59-139%
Chlorobenzene	U	51	102%	44	87%	14.9%	60-133%

* = Recovery outside limits.



Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

EPA Method - 8260

Quality Control Report

Lab ID Number: B2061102

Sample ID: Method Blank							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	6/11/97 16:14	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	102%	82%-121%
Toluene-d8	101%	81%-111%
4-Bromofluorobenzene	102%	69%-117%

Key: U - Analyzed but not found.

J - Estimated value, below quantitation limit.

N/A - Not Applicable.



Woods Hole Group

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 Phone: 508-822-9300
 Fax: 508-822-3288

EPA Method - 8260

Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	6/11/97	EMH	1	SOIL	B2061102	100%

Concentration units ug/Kg

Blank Spike Q2061101				Blank Spike Dup Q2061102			
SAMPLE ID:							
Compound	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	46	92%	45	89%	3.0%	59-172%
Benzene	U	46	92%	45	91%	1.4%	66-142%
Trichloroethene	U	49	98%	47	95%	3.2%	62-137%
Toluene	U	48	95%	46	93%	2.4%	59-139%
Chlorobenzene	U	47	95%	46	93%	2.1%	60-133%

* = Recovery outside limits.



Woods Hole Analytical
Laboratories, Ltd. (WHALE)

Chain of Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: Vertex Engineering
Address: 400 Libbey Place
Weymouth, MA 02187

Telephone: 617-335-6361
Facsimile: 617-335-3543
Contact Name: Tara Fierolan

COMPANY'S PROJECT INFORMATION

Project Name: Fernald
Project Number: 0405
P.O. #: 166
Sampler Name(s): J.F.

SHIPPING INFORMATION

Carrier: Quip
Airbill Number: _____
Date Shipped: _____
Quote #: _____

TAT — 10 Day — 5 Day — 3 Day — 48 Hr — 24 Hr — Other As 40

**VOLUME/CONTAINER TYPE/
PRESERVATIVE (NOTE 4)**

402 Glass / RT

ITS LAB #	SAMPLE ID (NOTE 1)	COLLECTION		COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	NUMBER OF CONTAINERS
		DATE	TIME				
381351	Tank-5 (S-2)	5/29/97	12:00	Grab	Soil	MTBE + Ptex	1
-2	Tank-5 (S-3)	5/29/97	12:00	Grab	Soil	MTBE +	1
-3	Tank-5 (S-4)	5/29/97	12:00	Grab	Soil	MTBE +	1
-4	Tank-5 (S-5)	5/29/97	12:00	Grab	Soil	MTBE +	1

Relinquished by: (signature) 	DATE 6/9/97	TIME 1750	Received by: (signature)
Relinquished by: (signature) 	DATE 6/9/97	TIME 1845	Received by: (signature) M.V. [Signature]
Relinquished by: (signature) 	DATE 6/9/97	TIME 	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.: MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.: 40ml/glass/H₂SO₄.

Notes to Lab: Mike, Pls. Turn Around ASAP
at the minimum cost
Harbor Tech



Woods Hole Analytical
Laboratories, Ltd. (WHALE)

Chinology Records

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION			COMPANY'S PROJECT INFORMATION				SHIPPING INFORMATION				VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4)	
Name: <u>Vertex Engineering</u> Address: <u>400 Liberty Plaza</u> <u>Weymouth, MA 02187</u> Telephone: <u>617-335-6361</u> Facsimile: <u>617-335-3543</u> Contact Name: <u>Terri Ford</u>			Project Name: <u>Fernald</u> Project Number: <u>0405</u> P.O. #: <u>166</u> Sampler Name(s): <u>J.F.</u>				Carrier: _____ Airbill Number: _____ Date Shipped: _____ Quote #: _____				<u>402 glass</u> <u>NR</u>	
TAT: 10 Day — 5 Day — 3 Day — 48 Hr — 24 Hr — Other <u>ASAP</u>			ANALYSIS/REMARKS (NOTE 2, 3)				NUMBER OF CONTAINERS					
ITS LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COMPOSITE GRAB	MATRIX								
381351	Tank-5 (S-2)	5/29/97	Grab	Soil	MTBE + BTEX				1			
-2	Tank-5 (S-3)	5/29/97	Grab	Soil	MTBE +				1			
-3	Tank-5 (S-4)	5/29/97	Grab	Soil	MTBE +				1			
-4	Tank-5 (S-5)	5/29/97	Grab	Soil	MTBE +				1			

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H₂SO₄,
 Notes to Lab: _____
Mike P's. Fern AROUND ASAP
at the minimum cost
Harlan Jara

Relinquished by: (signature) _____
 Received by: (signature) _____
 TIME 1750
 DATE 6/3/97

Relinquished by: (signature) _____
 Received by: (signature) _____
 TIME 1845
 DATE 6/3/97

Relinquished by: (signature) _____
 Received by: (signature) _____

EXHIBIT C-10

RTN 3-0010725, Fernald State School

Site Information			
Site Number:	3-0010725	Category:	72 HR
Site Name:	FERNALD STATE SCHOOL	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	6/21/2000
Town:	WALTHAM	Phase:	PHASE II
Zipcode:	02154	RAO class:	A2
Official notification date:	3/22/1994	Location type:	STATE
Initial status date:	3/22/1995	Source:	UST

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	6/21/2000
RAO class:	A2
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	PLANMD - Modified Revised or Updated Plan Received
Submittal Date:	2/7/2000
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	NDMDRC - Notice of Delay in Meeting RA Dealine Received
Submittal Date:	7/26/1999
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/15/1995
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/15/1995
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	TIERII - Tier 2 Classification
Submittal Date:	6/15/1995
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	5/13/1994
RAO class:	
Activity & Use Limitation:	

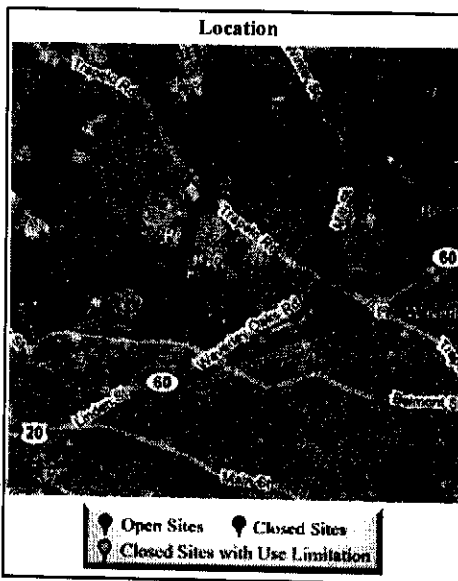
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	3/22/1994
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
GASOLINE		

LSPs	
LSP#	Name
2791	BAIRD, WILLIAM E
9092	OBRIEN, JAMES B

RAO Detail			
Class	Method	GW Category	Soil Category
A2	1	2	1

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
132	35	47	30	20	0	N	N





RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking
Number

3 - 10725

(Handwritten initials)

A. SITE OR DOWNGRADIANT PROPERTY LOCATION:

Site Name: (optional) Fernald State School
Street: 200 Trapelo Road Location Aid: _____
City/Town: Waltham ZIP Code: 02154-0000

Check here if this Site location is Tier Classified. If a Tier I Permit has been issued, state the Permit Number: _____

Related Release Tracking Numbers that this Form Addresses: _____

If submitting an RAO Statement, you must document the location of the Site or the location and boundaries of the Disposal Site subject to this Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site. If submitting a Downgradient Property Status Submittal, you must provide a site plan of the property subject to the submittal and, to the extent defined, the Disposal Site.

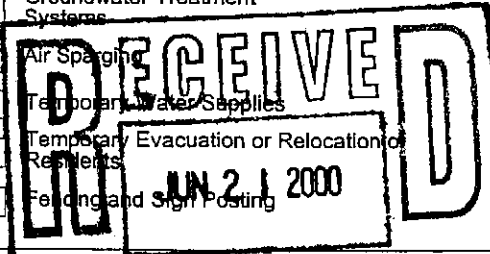
B. THIS FORM IS BEING USED TO: (check all that apply)

- Submit a Response Action Outcome (RAO) Statement (complete Sections A, B, C, D, E, F, H, I, J and L).
 - Check here if this is a revised RAO Statement. Date of Prior Submittal: _____
 - Check here if any Response Actions remain to be taken to address conditions associated with any of the Releases whose Release Tracking Numbers are listed above. This RAO Statement will record only an RAO-Partial Statement for those Release Tracking Numbers. Specify Affected Release Tracking Numbers: _____
- Submit an optional Phase I Completion Statement supporting an RAO Statement or Downgradient Property Status Submittal (complete Sections A, B, H, I, J, and L).
- Submit a Downgradient Property Status Submittal (complete Sections A, B, G, H, I, J and K).
 - Check here if this is a revised Downgradient Property Status Submittal. Date of Prior Submittal: _____
- Submit a Termination of a Downgradient Property Status Submittal (complete Sections A, B, I, J and L).
- Submit a Periodic Review Opinion evaluating the status of a Temporary Solution (complete Sections A, B, H, I, J and L).
 - Specify one: For a Class C RAO For a Waiver Completion Statement indicating a Temporary Solution
 - Provide Submittal Date of RAO Statement or Waiver Completion Statement: _____

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

- Assessment and/or Monitoring Only
 - Removal of Contaminated Soils
 - Re-use, Recycling or Treatment
 - On Site Off Site Est. Vol.: 1.25 cubic yards
 - Describe: _____
 - Landfill Cover Disposal Est. Vol.: _____ cubic yards
 - Removal of Drums, Tanks or Containers
 - Describe: _____
 - Removal of Other Contaminated Media
 - Specify Type and Volume: gasoline/water 1,120g
 - Other Response Actions
 - Describe: _____
- Deployment of Absorbant or Contaminant Materials
 - Temporary Covers or Caps
 - Bioremediation
 - Soil Vapor Extraction
 - Structure Venting System
 - Product or NAPL Recovery
 - Groundwater Treatment Systems
 - Air Sparging
 - Temporary Water Supplies
 - Temporary Evacuation or Relocation of Residents
 - Fencing and Sign Posting





RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADE PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 10725

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

C. DESCRIPTION OF RESPONSE ACTIONS: (continued)

Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

Describe
Technologies:

D. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste was sent to an off-site facility, answer the following questions)

Name of Facility: AMREC/Northland Envir./Aggregate Industries
Town and State: Charleton/Stoughton/Providence/Stoughton
Quantity of Remediation Waste Transported to: 189 tons/900 g/220 g/105 tons
Date: _____

E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select **ONLY** one Class:

- Class A-1 RAO:** Specify one of the following:
 - Contamination has been reduced to background levels.
 - A Threat of Release has been eliminated.
- Class A-2 RAO:** You **MUST** provide justification that reducing contamination to background levels is infeasible.
- Class A-3 RAO:** You **MUST** provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.
If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: _____
- Class B-1 RAO:** Specify one of the following:
 - Contamination is consistent with background levels
 - Contamination is **NOT** consistent with background levels.
- Class B-2 RAO:** You **MUST** provide an implemented AUL.
If applicable, provide the AUL expiration date: _____
- Class C RAO:** Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.
Specify One: Passive Operation and Maintenance Monitoring Only
 Active Operation and Maintenance (defined at 310 CMR 40.0006)

F. RESPONSE ACTION OUTCOME INFORMATION:

- If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment.
- Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

Notice of Activity and Use Limitation Grant of Environmental Restriction Number of AULs attached: _____

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.
Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

Risk Characterization Method(s) Used:	<input checked="" type="checkbox"/> Method 1	<input type="checkbox"/> Method 2	<input type="checkbox"/> Method 3
Soil Category(ies) Applicable:	<input checked="" type="checkbox"/> S-1	<input type="checkbox"/> S-2	<input type="checkbox"/> S-3
Groundwater Category(ies) Applicable:	<input type="checkbox"/> GW-1	<input checked="" type="checkbox"/> GW-2	<input checked="" type="checkbox"/> GW-3

> When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do NOT specify Risk Characterization Method.

> When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is NOT consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

3 - 10725

G. DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment.

Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.

Release Tracking
Number(s): _____

Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you **MUST** attach a statement identifying the applicable provisions thereof.

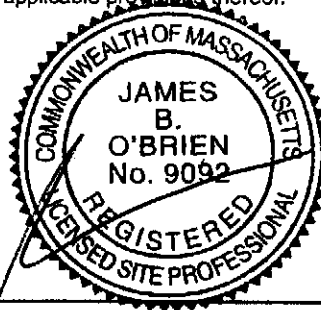
LSP Name: James B. O'Brien LSP #: 9092 Stamp:

Telephone: 781-952-6000 Ext.: _____

FAX: _____
(optional)

Signature: _____

Date: 6-22-00



I. PERSON MAKING SUBMITTAL:

Name of Organization: Commonwealth of Massachusetts Department of Mental Retardation

Name of Contact: Maurice O'Connell Title: Plant Superintendant

Street: 200 Trapelo Road

City/Town: Waltham State: MA ZIP Code: 02154-0000

Telephone: 781-894-3600 Ext.: 2681 FAX: _____
(optional)

J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: (check one)

RP or PRP Specify: Owner Operator Generator Transporter Other RP or PRP: _____

Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

Any Other Person Submitting This Form Specify Relationship: _____



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 10725

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

K. CERTIFICATION OF PERSON SUBMITTING DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: _____
(signature)

For _____ Date: _____
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____
City/Town: _____ State _____ ZIP Code: _____
Telephone: _____ Ext. _____ FAX: (optional) _____

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, Maurice O'Connell, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Maurice O'Connell Title: Plant Superintendent
(signature)

For Maurice O'Connell Date: 6-14-00
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____
City/Town: _____ State _____ ZIP Code: _____
Telephone: _____ Ext. _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

Response Action Outcome

Massachusetts Department of Mental Retardation
Walter E. Fernald School – Farm and Grounds
200 Trapelo Road
Waltham, Massachusetts *N/A - C*
RTN# 3-10725
VERTEX Project No. 0405/1003

VERTEX

Prepared For:

The Commonwealth of Massachusetts
Executive Office of Health & Human Services
Department of Mental Retardation
160 North Washington Street
Boston, Massachusetts 02114

Submitted To:

Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup
205a Lowell Street
Wilmington, MA 01887

Response Action Outcome

Massachusetts Department of Mental Retardation
Walter E. Fernald School – Farm and Grounds
200 Trapelo Road *N/A - C*
Waltham, Massachusetts
RTN# 3-10725
VERTEX Project No. 0405/1003

VERTEX

Prepared For:

The Commonwealth of Massachusetts
Executive Office of Health & Human Services
Department of Mental Retardation
160 North Washington Street
Boston, Massachusetts 02114

Submitted To:

Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup
205a Lowell Street
Wilmington, MA 01887

VERTEXSM
Engineering Services, Inc.

Massachusetts Office
400 Libbey Parkway
Weymouth, MA 02189
Office (781) 952-6000
Fax (781) 335-3543
e.mail: vertex@vertexeng.com

California Office (650) 579-7839
Colorado Office (303) 623-9116
New York Office (718) 729-9489

June 21, 2000

Massachusetts Department of Environmental Protection
Northeast Regional Office
205A Lowell Street
Wilmington, MA 01887

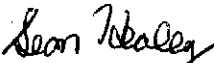
RE: **Response Action Outcome (RAO)**
Massachusetts Department of Mental Retardation
Walter E. Fernald School – Farm and Grounds
200 Trapelo Road
Waltham, Massachusetts
RTN# 3-10725
VERTEX Project No. 0405/1003

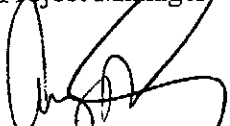
To whom it may concern:


VERTEX Engineering Services, Inc. (VERTEX) has been retained by the Massachusetts Department of Mental Retardation to conduct Licensed Site Professional Services at the above referenced site. This document serves as a Response Action Outcome (RAO) Statement and is submitted to the Department pursuant to 310 CMR 40.1000 as supporting documentation for a Class A-2 RAO. In addition, please find the (RAO) Statement (BWSC-104) Transmittal Form. Please do not hesitate to contact the undersigned should you have any questions or comments. Thank you.

Sincerely,

VERTEX Engineering Services, Inc.


Sean F. Healey
Project Manager


Amy McElroy
Senior Project Manager


James B. O'Brien, L.S.P.
President

cc: Mr. George Atamian, P.E. MDMR

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Appendix G: VERTEX Laboratory Analytical Reports

systems were observed and corrected, the USTs were then re-tested and determined tight. Not all impacted soil could be removed without jeopardizing the operation of the tanks and pumping system. Consequently, further investigation was ordered by the MADEP in August 1994.

WEBB conducted IRA assessment activities in 1995, which included the installation and sampling of three groundwater monitoring wells at the site. However, it was determined by WEBB that site conditions were not consistent with an IRA status and an IRA Completion Report was submitted to the MADEP on June 15, 1995. Laboratory analytical results of soil and groundwater samples collected by WEBB revealed detectable concentrations of targeted analytes above applicable Method One S1/GW2/GW3 standards. The site was classified as a Tier II disposal site by WEBB on June 15, 1995, with a Numerical Ranking System Score (NRS) of 132.

Subsequently the USTs, pumping system, and remaining impacted soil were removed from the site under the direction of James B. O'Brien of VERTEX as L.S.P of Record. VERTEX submitted a Release Abatement Measure (RAM) Plan for the UST removal activities to the MADEP on April 18, 1997.

On May 27, 1997, VERTEX observed the removal of the two 4,000 gallon UST's from the site. During removal activities approximately 28 tons of impacted soil was excavated from the UST graves. All impacted soil was transported to a licensed disposal facility under a Bill of Lading. Results of laboratory analysis of post excavation soil sampling indicated that impacted soils within the tank graves had been remediated to concentrations below applicable Method One S1/GW2/GW3 Standards.

Between June 1997 and April 2000, VERTEX conducted remedial assessment activities at the site under the existing RAM Plan. Assessment activities included the installation and

sampling of four groundwater monitoring wells and two soil gas wells. Due to the fact that contaminant concentrations collected from monitoring well MW-3, located in the area of the former USTs, remained above Method One GW2/GW3 standards and impacted soil remained in the area of MW-4 at 10-12 feet below grade surface, VERTEX proposed a remedial excavation in the area of MW-3.

In March 2000 VERTEX performed a remedial excavation at the site in the area of the former UST's and MW-3, which included the excavation of 100 yards of impacted soil. Soil was transported off site under a bill of lading.

Results of soil and groundwater analyses subsequent to the March soil removal indicate that the site is eligible for a Class A RAO. In accordance with the Massachusetts Contingency Plan (MCP), a risk characterization has been performed which documents that a condition of "No Significant Risk" has been achieved at the site. This RAO documents site activities, investigations, analytical results and a Method One Risk Characterization as required by 310 CMR 40.1056.

2.0 RESPONSE ACTION OUTCOME (RAO) CATEGORY

The category of this RAO was determined in accordance with 310 CMR 40.1036. Class A-2 is appropriate to this site for the following reasons:

- A Permanent Solution has been achieved;
- Response actions have been employed to achieve a condition of No Significant Risk (310 CMR 40.900);
- Levels of oil/and or hazardous materials (OHM) at the site have not been reduced to background levels;
- One or more Activity and Use Limitations are not required to maintain a level of “No Significant Risk”.

3.0 GENERAL DISPOSAL SITE INFORMATION

3.1 Site Description

The subject to this RAO is an approximately 13,775 square foot area located on the eastern side of the "Farm & Grounds" maintenance building situated in the south western section of the Massachusetts Department of Mental Retardation (MDMR) Walter E. Fernald School campus, located at 200 Trapelo Road in Waltham Massachusetts, herein referred to as the "site". The area pertaining to this RAO is shown on Figure 2-Site Schematic.

The site is accessed by Chapel Street, which serves as the south western entrance for the campus. The site area is used as the maintenance and grounds keeping facility for the school. It formerly served as a vehicle fueling area for maintenance and passenger vehicles owned by the MDMR.

The main garage building located adjacent to and west of the site, is aluminum sided with a concrete foundation, and is used as a garage for repair work to vehicles and machinery. The former vehicle fueling area was located approximately 100 feet to the east of the main garage building. Please reference Figure-3 Site Schematic. The location of the site is shown on the Boston North, Massachusetts USGS Topographic Quadrangle, dated 1985 with the following coordinates: 70.058.335 N and 42.351440W. Please refer to Figure 1 - Site Locus Map.

3.2 Surrounding Land Uses

3.2.1 Abutting/Adjacent Land Uses

The site is located in the southwestern portion of the Fernald School Campus. The site is bordered to the north and south by drives, parking areas and grassy areas utilized by the Fernald School employees. An access road and undeveloped land owned by the MDMR borders the site to east. Undeveloped land and the Farms and Grounds building border the site to the west.

3.2.2 Institutions within 500 Feet of Site

The site is located within The Fernald School Campus. The Fernald School is an Institution as defined in 310 CMR 40.0006 (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). Residential housing is utilized on the Fernald School Campus.

3.2.3 Natural Resource Areas within 500 Feet of Site

The site and surrounding properties are serviced by municipal water. There are no private water supply wells within 1000 feet of the site. There are no municipal water supplies within at least one half mile of the site. According to a December 3, 1998, MADEP-Bureau of Waste Site Cleanup (BWSC), Massachusetts Geographic Information System Map (MassGIS), the site is not located within a Current or Potential Drinking Water Source Area or within a Potentially Productive Aquifer or an Interim Wellhead Protection Area. Additionally, the site is not located in an Area of Critical Environmental Concern. A

freshwater wetland area is located southwest of the site and two small streams (Clematic Brook and an unnamed stream) border the site on the west and east. The site and surrounding properties are serviced by municipal water. Please refer to Appendix B for a copy of the MassGIS Map.

4.0 DISPOSAL SITE HISTORY

4.1 Owner/Operator and Operations History

The site parcel was purchased by the Commonwealth of Massachusetts in approximately 1930. Prior to 1930, the site was utilized as farmland. The Farm & Grounds Building was constructed in 1973 and has been utilized as a maintenance building since that time.

4.2 Release History

As previously mentioned, according to the Phase I Report and Tier Classification Submittal by WEBB dated June 15, 1995, the MADEP was notified of a threat of a release due to two (2) UST tests (2-4,000 gallon gasoline UST's) on March 22, 1994. Approximately seven (7) cubic yards of soil was excavated from the area and stockpiled. Faulty check valves and venting systems were observed and corrected, the USTs were then re-tested and determined tight. Not all impacted soil could be removed without jeopardizing the operation of the USTs and pumping system. Consequently, further investigation was ordered by the MADEP in August 1994.

5.0 SITE HYDROGEOLOGICAL CHARACTERISTICS

5.1 Soil Boring/Monitoring Well Installation

In order to assess on-site subsurface soil and groundwater conditions in the area of the former UST's, a total of 9 soil borings were completed at the site by WEBB and VERTEX.

Four soil borings (B4, MW-1, MW-2 and MW-3) were advanced by WEBB in 1995. MW1 through MW3 were completed as a groundwater monitoring wells. MW-1 and MW-2 did not prove to be water bearing and were not sampled. The location of these soil borings is shown on Figure 2-Site Schematic. A copy of WEBB's subsurface investigation report is included in Appendix C.

Between July 17, 1998 and March 15, 2000, five soil borings (MW4 through MW8) were installed at the site by VERTEX utilizing hollow stem auger and air hammer techniques. Each of these borings were completed as groundwater monitoring wells. The locations of the borings and monitoring wells are shown on Figure 3 – Site Schematic. Soil Boring/Monitoring Well Logs of soil borings completed by VERTEX may be referenced in Appendix D.

Split spoon samplers were utilized to collect subsurface soil samples every five feet. Soil types were noted and classified starting at grade. Based on visual classification of split spoon soil samples, the site is underlain by gray silty sand with brown medium to fine grained sand with gravel.

During the installation of monitoring wells MW4 through MW8 fractured bedrock was encountered between 9-11 feet below grade surface (bgs). No groundwater was encountered in these borings prior to refusal. This required the use of an air hammer to advance each boring into weathered bedrock to a depth between 15 to 35 feet below grade surface.

Monitoring wells were constructed of a bottom plugged 2-inch diameter PVC well screen (0.010 inch slot) followed by a length of 2 inch diameter PVC solid riser to grade level. The screened section was installed to intercept the groundwater table, which ranged from 7 to 20 feet bgs throughout the site. Number 2 washed sand was packed to approximately 1-2 foot above the screen followed by a 1 foot thick bentonite grout packing. The remainder of the boring was back filled with native soil and then sealed to grade with concrete. Each monitoring well was fitted with a locking cap on the riser and fitted with a water tight 4-inch diameter flush mount metal roadbox.

5.2 Hydrogeology

On November 5, 1998 and April 5, 2000, VERTEX conducted a instrument and tape surveys to locate groundwater monitoring wells and significant surficial features at the site. The depths to groundwater within site monitoring wells were measured with an electronic water level meter on the same date. Information obtained from the instrument survey and monitoring well gauging was utilized to evaluate the lateral groundwater flow direction at the site. The results of the most recent April 5, 2000, survey are depicted on Figure 2–Site Schematic. The measured monitoring well rim and groundwater elevations from the April 5, 2000 elevation survey are summarized in the following table:

Table 1 – Groundwater Elevation Data			
April 5, 2000			
Monitoring Well	Rim Elevation	Rim Elevation	Groundwater Elevation
MW-4	98.71	7.47	91.24
MW-5	98.39	19.53	78.86
MW-6	95.89	17.71	78.18
MW-7	98.96	7.90	91.06
MW-8	100.46	9.04	91.42

Groundwater elevations within monitoring well MW-5 and MW-6 are considerably lower in elevation due relative depth of productive fractures encountered within the weathered bedrock.

Based on information obtained from the April 2000 instrument survey and monitoring well gauging, groundwater beneath the site appear flows in a southwesterly direction. Results were consistent with the November 1998 survey. This flow direction generally follows the surface topography of the site.

6.0 NATURE AND EXTENT OF CONTAMINATION

6.1 Results of Soil Sampling and Laboratory Analytical Results

6.1.1 WEBB Environmental Subsurface Investigation 1995

As previously mentioned, a subsurface investigation was conducted at the site by WEBB in 1995 in an effort to determine the potential extent of downgradient impact to subsurface soil and groundwater associated with the subject threat of release.

WEBB collected soil samples at five foot intervals and submitted selected samples to a Spectrum Analytical Laboratories, Inc. (SAI) in Norwell, Massachusetts, a State of Massachusetts Certified laboratory. Soil samples were submitted for laboratory analysis of Total Petroleum Hydrocarbons (TPH) via EPA Method 8100 modified and Benzene, Toluene, Ethylbenzene and Xylene (BTEX) via EPA Method 8020. Soil analytical results are depicted in Table 2 attached.

Laboratory analysis of a soil sample collected by WEBB from MW-3 at 10-12 feet below grade revealed concentrations of Total Petroleum Hydrocarbons (TPH) at 920 mg/kg, above the site applicable Method One S-1 Standards of 800 mg/kg.

6.1.2 VERTEX- UST Removals-Post Excavation Soil Sampling Analytical Results

On May 27, 1997 VERTEX observed the removal and disposal of the two (2) 4,000 gallon steel gasoline underground storage tanks. Please see Appendix E-VERTEX

January 26, 1998 RAM Status report for a detailed account of UST removal activities.

Wastes generated during the UST removals included 900 gallons of oily water initially pumped from the UST's and 220 gallons of oily washwater. In addition, approximately 28 tons of gasoline impacted soil was removed from the UST graves and subsequently recycled at the AMREC facility located in Charlton, Massachusetts. Please see Appendix F for a copy of all Bills of Lading and Hazardous Waste Manifests. Following excavation activities, five (5) confirmatory soil samples from each were collected from each excavation field screened and analyzed for TPH and BTEX. Please see Figure 3-UST Removal-Post Excavation Schematic for a depiction of sampling locations. A summary of the field screening results are presented in Table 3 and Table 4 attached. Laboratory analytical reports of the analyses performed on the soil samples are included as Appendix G.

Laboratory analytical results of post excavation soil sampling did not reveal detectable concentrations of targeted analytes above site applicable Method One S1/GW2 soil standards and support regulatory closure.

6.1.3 Release Abatement Measure Activities-March 2000

In an effort to remove impacted soil remaining at the site above Method One standards, below the water table in the area of monitoring well MW3 (at approximately 10-12 feet below grade) and thereby reduce concentrations of contaminants within site groundwater, soil excavation, removal and disposal was conducted at the site from March 6th through March 15th 2000. VERTEX submitted RAM modifications to the MADEP on January 28th and March 6th 2000.

During this period approximately 100 yards of impacted soil was removed in the area of MW3 and in the former location of the USTs. All impacted soil was stockpiled on-site on poly and recycled at Aggregated Industries in Stoughton, Massachusetts. Please see Appendix F for a copy of the Bill of Lading.

Soil samples were collected during excavation activities and screened for the presence of headspace Total Organic Vapors (TOVs) with a PID. Excavation activities were discontinued when the PID indicated that TOV headspace levels were less than 20 parts per million (ppm) along to sidewalls of the excavation. Final post excavation field screening results are depicted on Table 5 attached. Final excavation dimensions measured approximately 45 feet long by 30 feet wide. Please see Figure 2- Site Schematic for a depiction of the RAM excavation.

Groundwater was encountered within the excavation at approximately 10.5 feet below grade. Field screening of saturated soil samples taken at the base of the excavation revealed concentrations of TOV's between 0-166. However, each sample collected at the base was within the groundwater table, saturated and contained pieces of bedrock. Therefore, these samples are not considered indicative of overburden soil conditions at the site and were not submitted for laboratory analysis.

Following post excavation sampling of the sidewalls and base of the excavation, the excavation was backfilled with clean fill material. Please see Figure 4-Sampling Locations March 2000, for a depiction of sampling locations. Soil samples were selected from above the groundwater interface along each sidewall, placed on ice and delivered to Groundwater Analytical (GAI) in Buzzards Bay, Massachusetts for laboratory analysis of Volatile Petroleum Hydrocarbons (VPH) with targeted

Volatile Organic Compounds (VOC's) by GC/PID/FID and Extractable Petroleum Hydrocarbons (EPH) with targeted Polynuclear Aromatic Hydrocarbons (PAHs) by GC/FID. Laboratory analytical results of the post excavation sampling are summarized in Table 6 attached.

Laboratory analytical results of post excavation soil sampling did not reveal detectable concentrations of targeted analytes above site applicable Method One S1/GW2 soil standards and support regulatory closure.

6.2 Soil Gas Survey Results

On May 31, 1999, in order to evaluate for the potential threat to indoor air in association with the subject release, VERTEX installed and sampled two soil gas wells SW1 and SW2 at the site east and adjacent to the nearby maintenance building. SW1 and SW2 were installed to a depth of approximately 3 feet below grade surface. Please see Figure 2-Site Schematic for soil gas well locations.

Soil gas wells were constructed with a length of bottom plugged, 2-inch diameter PVC well screen (0.010 inch slot) followed by a length of 2 inch diameter PVC riser to grade level. Number 2 washed sand was packed to approximately 1-2 foot above the screen followed by a 1 foot thick bentonite grout packing. The remainder of the boring was back filled with native soil and then sealed to grade with concrete.

On May 31, 1999, VERTEX conducted soil gas sampling. Vapors were monitored for TOVs using a Thermo Environmental OVM Model 503B PID. A measurement of vapors was taken at the sampling point following the installation of the soil gas well. A flow rate of approximately 500 ml/minute was established at the location and soil gas samples were

obtained by connecting the PID to the sampling port. Results of sampling did not reveal detectable levels of TOVs.

6.3 Groundwater Sampling and Analytical Results

6.3.1 Groundwater Sampling-May 1995 through September 1999

A subsurface investigation was conducted at the site by WEBB in 1995, which included the installation of three monitoring well (MW-1, MW-2 and MW-3). MW-1 and MW-2 did not prove to be water bearing and were not sampled. WEBB did sample monitoring well MW-3. Laboratory analysis of groundwater samples obtained by WEBB from monitoring well MW-3 revealed concentrations of Toluene, Xylenes, and TPH above site applicable Method 1 GW2/GW3 standards. Please see Appendix C for a copy of WEBB's report and analytical results.

Between June 1997 and September 1999, VERTEX conducted four groundwater sampling rounds at the site. Monitoring wells which were sampled included MW3 through MW6. Each groundwater sample was obtained by using a dedicated polyethylene bailer lowered with polyethylene string. The wells were purged of three to five volumes of water and then were allowed to recharge. The ground water samples were then placed directly into pre-cleaned and labeled laboratory supplied bottles. Samples were placed on ice and delivered to GAI for laboratory analysis of VPH with targeted VOC's by GC/PID/FID and EPH with targeted PAHs by GC/FID. Results of each groundwater sampling round are summarized in Table 7 attached. Complete Laboratory Analytical Reports are included in Appendix F.

Laboratory analytical results revealed that concentrations of VPH constituents continued to exist within groundwater samples collected from MW3 above site applicable Method One GW2/GW3 standards. Therefore, VERTEX proposed a

RAM modification, which included the removal of impacted soils below the groundwater table at approximately 10-12 feet below grade within the area of MW3, in an effort to decrease groundwater contaminant concentrations. RAM soil removal and disposal activities were conducted in March 2000 as discussed previously.

6.3.2 Groundwater Sampling-March and April 2000

On March 21st 2000, VERTEX sampled monitoring wells MW4 through MW8. On April 5th 2000, VERTEX conducted additional sampling of monitoring well MW7 and MW8. Each monitoring well was sampled utilizing dedicated polyethylene bailers lowered on polypropylene rope. The wells were purged of three to five standing volumes of water, allowed to recharge, prior to sampling. No sheen was observed during the groundwater sampling event.

Groundwater samples were placed directly into pre-labeled, laboratory supplied containers and immediately placed on ice. These samples were subsequently delivered to Groundwater Analytical, Inc. for analysis of VPH with targeted VOC's and EPH with targeted PAHs and Lead.

Results of each groundwater sampling round are summarized in Table 8 attached. Results of each sampling event did not reveal concentrations above site applicable Method One GW2 and or GW3 standards.

7.0 RISK CHARACTERIZATION

This section discusses the characterization of risk of harm to health, safety, public welfare and the environment posed by residual contamination related to a release of gasoline at the site. This characterization has been conducted in accordance with the procedures outlined in 310 CMR 40.0900 of the Massachusetts Contingency Plan (MCP).

7.1 Selection of Risk Characterization Method

A Method One Risk Characterization, as described in 310 CMR 40.0970, has been selected to characterize the risk of harm to health, safety, public welfare and the environment at this site, based on the evaluation presented previously. The Method One characterization is considered applicable to this disposal site for the following reasons:

- 1) Oil and/or hazardous materials (OHM) have only been identified in soil and groundwater and are not likely to migrate to other environmental media.
- 2) All OHM detected at the site are listed in 310 CMR 40.0974 and 40.0975.
- 3) OHM present on-site are not known to bioaccumulate.
- 4) No environmental receptors have been identified that could be impacted by the disposal site.

7.2 Identification of Potential Receptors and Site Activity and Uses

This section discussed the receptors, site activities and uses, exposure points and exposure point concentrations to assess the exposure that a receptor might receive during contact with impacted media at the site.

7.2.1 Identification of Receptors

The Farms and Grounds Maintenance building is located immediately west of the site. The building is currently utilized for the storage and maintenance of vehicles and equipment utilized in the upkeep of grounds at the Fernald School. Therefore, potential human receptors include adult workers on-site.

The Fernald School is a residential school operated by the MDMR. Although there are no residential units in the immediate vicinity of the site, residential students are also considered potential human receptors.

Trespassers and workers during any future excavation activities are also considered receptors, but exposure of possible future on-site residents is considered to be the most significant exposure, and will encompass the exposure assessment of other receptors.

7.2.2 Identification of Site Activities and Uses

Most conservative site activities and uses are considered to include, but not be limited to the following: 1) use of the site for a residence; 2) the excavation of soil during construction/renovation activities and 3) recreational/leisure activities.

Potable water is supplied to the site by the municipality. There are no irrigation or other water supply wells on the MDMR property. Use of site water for drinking, watering lawns and washing is not considered applicable to this assessment.

7.2.3 Identification of Exposure Pathways

Exposure points are the points at which identified receptors would contact identified hazards during site activities/use. For the purpose of this assessment, site receptors could be exposed through dermal contact with soil, ingestion of soil, inhalation of particulate, and/or inhalation of indoor air vapors within the Farm & Grounds Building potentially impacted by site groundwater.

7.3 Determination of Applicable Soil and Groundwater Categories

The site, receptor and exposure information previously discussed has been evaluated to determine the applicable soil category for the site. The highest potential for exposure to soil has been selected as applicable to the site, for conservatism, and to demonstrate that an Activity Use Limitation (AUL) is not necessary for the site. As such, the S-1 category as defined in 310 CMR 40.0933 (5) has been selected.

The groundwater category for this site was determined pursuant to 310 CMR 40.0932, local research. The site is not located in a current or potential drinking water source area. There are no known private or public drinking water wells within ½ mile of the site. The site is not within an area containing a medium to high yield aquifer and it is not within an area classified as a Zone II or an Interim Wellhead Protection Area. Depth to groundwater at the site is less than 15 feet bgs; therefore the site groundwater is considered GW-2/GW3.

7.4 Characterization of Groundwater Contamination

Subsurface groundwater sampling and analysis at the site included the collection and analysis of groundwater samples for the presence of gasoline constituents from six monitoring wells on-site. Results of the most recent groundwater analyses indicated concentrations of VPH, VOC's and EPH (including PAHs) exist below applicable Method 1 GW2 and/or GW3 standards.

This supports VERTEX's conclusion that groundwater has been adequately characterized and does not pose a significant risk.

7.5 Characterization of Impact to Indoor Air

As previously mentioned, VERTEX conducted soil gas sampling of two soil gas wells installed immediately adjacent to the exterior of the Farm & Grounds building foundation. The soil gas sampling was conducted in an effort to characterize the potential for vapors to migrate to indoor air within the Farm & Grounds building. Results of sampling did not reveal detectable levels of Total Organic Volatiles. Therefore, VERTEX concludes the potential for migration of groundwater vapors to indoor air has been adequately characterized and support that site groundwater does not pose a significant risk.

7.6 Characterization of Soil Contamination

Subsurface soil sampling and analysis at the site included the collection and analysis of soil samples from four soil borings, eleven samples from the limits of VERTEX's UST removal remedial excavation and four samples from the limits of VERTEX's March 2000 RAM excavation. The samples were collected at depths of 5 feet and 12 feet below

ground surface. Soil samples were analyzed for TPH, BTEX, VOC's, VPH, and EPH with PAH's.

Results of soil sampling conducted during WEBB's subsurface investigation indicated impacted soil remained at the site above applicable S1/GW2 standards in the area of MW-3 at a depth of 10-12 feet below grade. This soil was removed during VERTEX's RAM excavation in March 2000.

The remaining results of soil sampling and analyses from WEBB's investigation and soil sampling and analyses from VERTEX's UST removal and RAM excavation indicate residual concentrations of petroleum constituents below Method 1 S-1/GW-2 Standards. Therefore, impacted soils remaining at the site do not pose a significant risk and are not considered to be a threat.

7.7 Exposure Point Concentrations

Groundwater monitoring wells are the only exposure points to groundwater at this site. Exposure point concentrations of OHM in groundwater were determined by analyzing groundwater samples collected from each monitoring well, with each monitoring well evaluated as a distinct exposure point.

As is shown in Table 7 and 8, no current exposure point concentrations currently exist above applicable Method One GW2/GW3 Standards for groundwater at the site, with the exception of latest groundwater samples collected from MW7.

Laboratory analysis of groundwater samples collected from monitoring well MW-7 on April 5, 2000 revealed concentrations of VPH fraction c-5 to c-8 aliphatic hydrocarbons at 1,400 ug/l, above the Method One GW2 standard of 1,000 ug/l but below the Method One

GW3 standard of 4,000 ug/l. However, monitoring well MW-7 is located approximately 50 feet from the site building. Therefore, groundwater within MW-7 is classified as GW-3.

In an effort to determine if groundwater at the site could be considered a source of vapors to indoor air within the site Farm & Grounds building, VERTEX conducted soil gas sampling at the site. Results of soil gas sampling did not reveal detectable concentrations of total organic volatiles. Therefore, no exposure point concentration were identified and volatilization of site contaminants into indoor air is not a concern.

Exposure point concentrations of OHM in soil was determined by analyzing soil samples collected from WEBB's subsurface investigation, the limits of the UST removal excavation, and the limits of the RAM excavation with each soil sample location evaluated as a distinct exposure point. As was discussed previously and as shown in Tables 2, 3, 4 and 6 no exposure point concentrations currently exist above applicable Method 1 S1/GW2 standards for soil at the site.

7.8 Characterization of Risk of Harm to Safety

The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the disposal site. The site does not contain the following items related to a release of OHM:

- 1) There are no rusted or corroded drums or containers, open pits or lagoons;
- 2) There is no threat of fire or explosion, or the presence of explosive vapors from the release of OHM; and

- 3) There are no uncontainerized materials exhibiting the characteristics of corrosivity, reactivity, or flammability.

Based on the above information, it was determined that the site does not pose a risk to public safety.

7.9 Characterization of Risk of Harm to the Environment

Residual concentrations of petroleum products in site soil has been significantly reduced to near background conditions. Therefore, a condition of significant risk to the environment does not exist regarding site soils.

Based on the results of groundwater analysis of downgradient monitoring wells, groundwater does not possess a condition of significant risk to the environment due to the absence of exceedances of Method one GW-3 standards.

8.0 FEASIBILITY OF RESTORATION TO BACKGROUND

The presumed background concentrations for OHM in the soil and groundwater at the site are assumed to be non-detectable concentrations.

The source of contaminants to the groundwater has been removed from the site. Therefore, further degradation of the groundwater is not anticipated.

Due to the inaccessibility of the remaining residually impacted soil and groundwater, remediation to achieve background conditions, at the depths which exhibits residual impacted soil, would likely entail removal of impacted bedrock, excavation and disposal. It is the opinion of VERTEX that the costs associated with the implementation of such remediation are substantial and disproportional to the incremental benefit of risk reduction, environmental restoration, monetary and non-pecuniary values.

Therefore, VERTEX has determined that further remediation of the subject release area is not required and this RAO is classified as a Class A-2

9.0 CONCLUSIONS

The following conclusions were made based upon the Method 1 Risk Characterization of site conditions at the subject site.

- 1) Current exposure point concentrations at the site are below site applicable GW2/GW3 groundwater standards and S-1/ GW-2 soil standards.
- 2) Response actions performed at the site resulted in the removal of the source.
- 3) The site does not pose a risk of harm to health, public welfare and the environment.
- 4) A condition of No Significant Risk as defined by 310 CMR 40.0973(7) exists at the site.
- 5) No Activity and Use Limitations are necessary for this site.

10.0 QUALIFICATIONS

Our 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. VERTEX 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.

It must be recognized that environmental investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site investigation. All site subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the limited investigation. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated.

The conclusions presented in this report are professional opinions based solely upon visual observations and supplemental testing of soil and/or groundwater at the site. Our interpretation of the available historical information and documents reviewed, as described in this report, were also considered in the conclusions. VERTEX relied upon but did not attempt to independently verify the validity or accuracy of the findings and conclusions noted in the documentation reviewed.

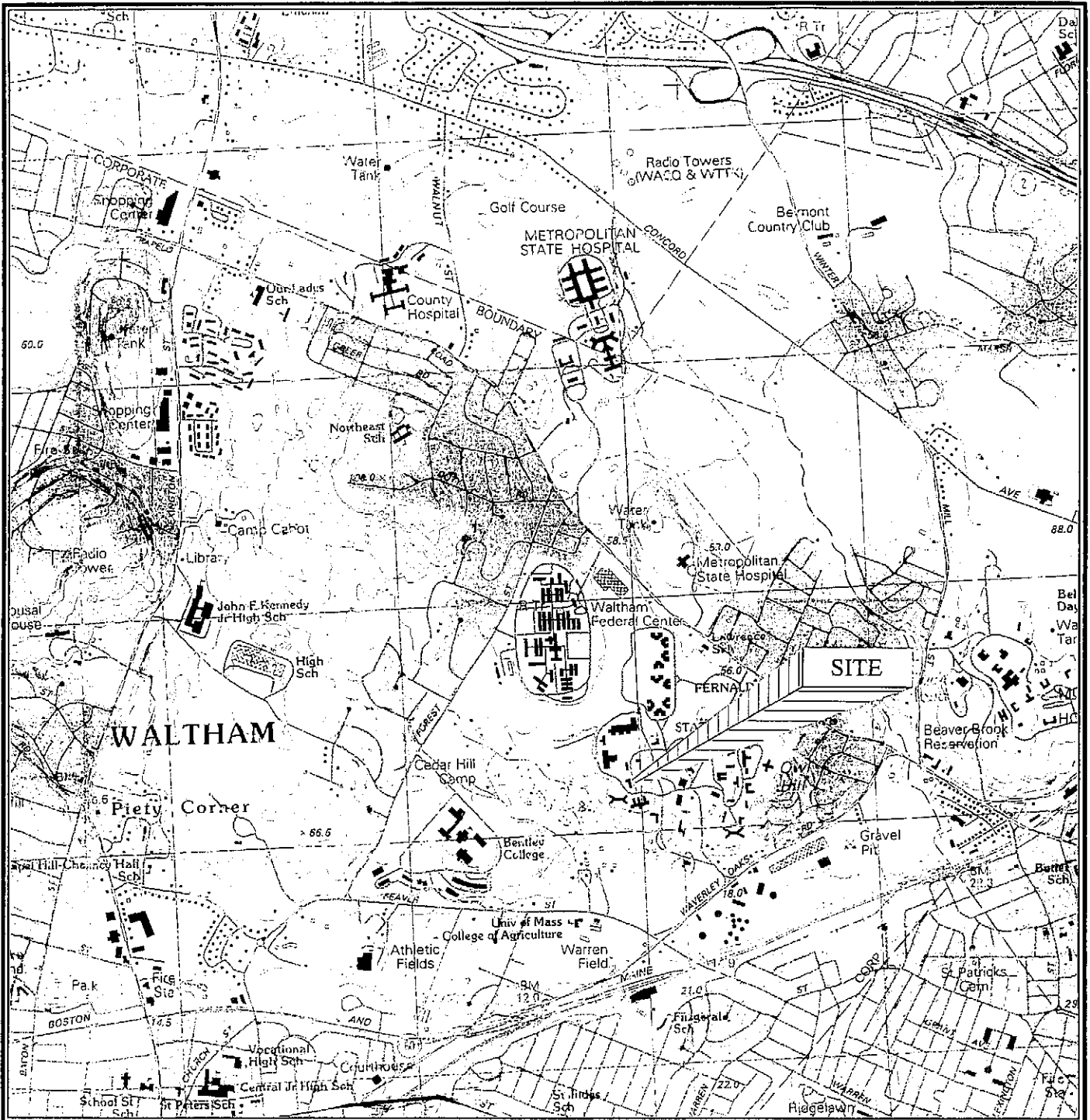
This report is intended for the sole use of the MDMR. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users,

and any use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

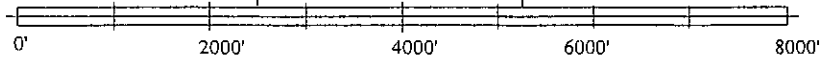
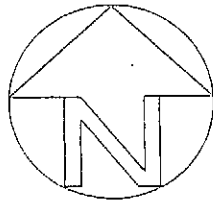
It should be noted that twenty percent (20%) of Response Action Outcome Statements and supporting documentation are audited by the Massachusetts Department of Environmental Protection (“the Department”). The Department may conduct Random Audits or Targeted Audits for up to five (5) years following the submission of an RAO Statement. Under certain circumstances, as provided in 310 CMR 40.1110(3), there are no time constraints for Targeted Audits.

Due to the inherent flexibility in interpreting the applicable regulations, the Audits are often subjective and dependent on the opinion of the auditor. As a result, the auditor could require additional assessment of the site and/or remedial action. Based on these considerations, VERTEX is not and will not be responsible for costs or other possible ramifications of additional work required by the Department. Any other parties with financial or other interests in the subject property are urged to consider these facts.

FIGURES



USGS Topographic Map, 1985
 Boston North, Massachusetts Quadrangle
 Contour Interval: 3 meters
 1/2 mi. **Graphic Scale** mi.



SITE LOCUS MAP

Fernald State School
 Waltham, Massachusetts

SCALE: AS SHOWN

JUNE 21, 2000

VERTEX Proj. No. 1003

VERTEX

FIGURE NO. 1

LEGEND



MONITORING WELLS LOCATION
(GROUNDWATER ELEVATION)

Grassy Area

Parking Area

Edge of pavement

Hill

Grassy Area

Revised to edge of pavement

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

SITE SCHEMATIC

Fernald School
Farm & Grounds Building
200 Trapelo Road
Waltham, Massachusetts

SCALE : 1" = 30'

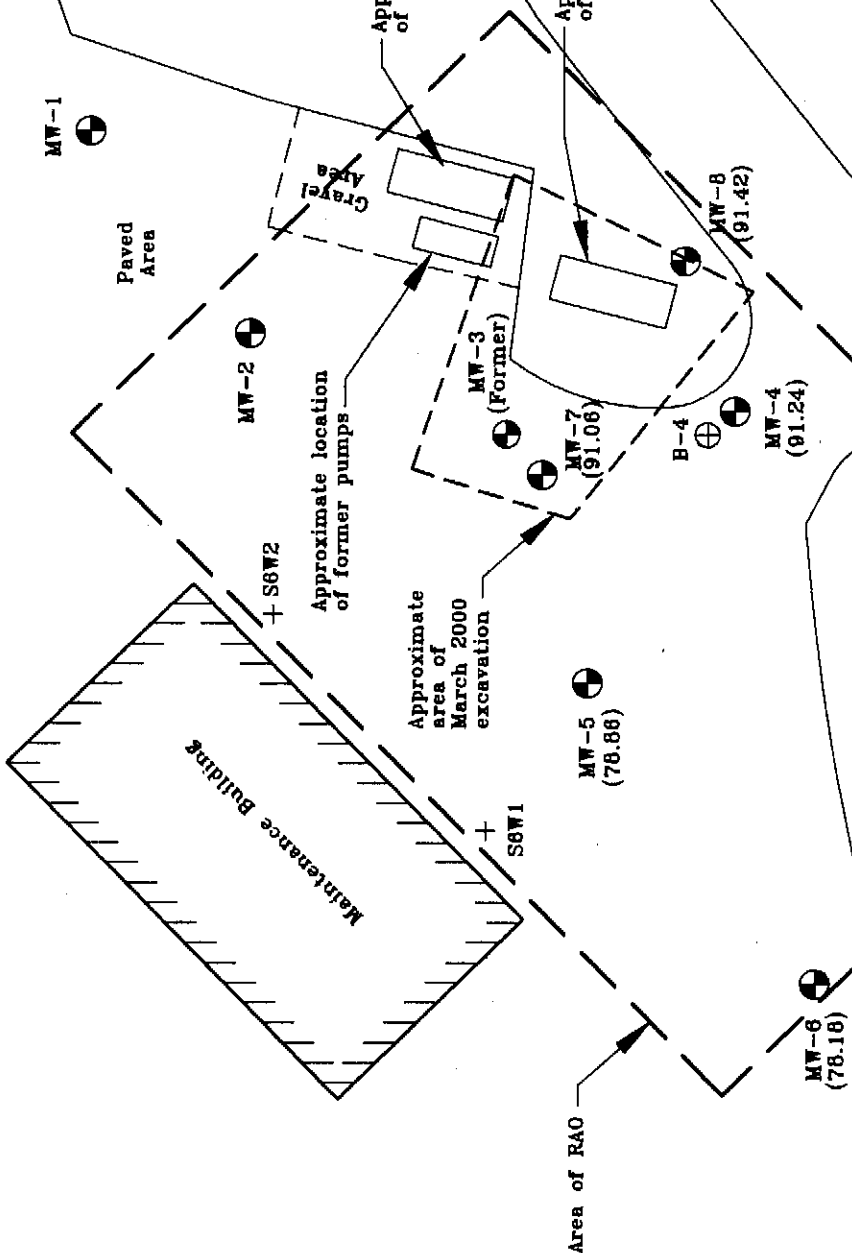
DATE: April 17, 2000

VERTEX PROJ. 1003



Engineering Services, Inc.

FIGURE NO. 2



Grassy Area

LEGEND



MONITORING WELLS LOCATION
(GROUNDWATER ELEVATION)

Grassy Area

Parking Area

Edge of pavement

Hill

Grassy Area

Revised to edge of pavement

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

SITE SCHEMATIC

Fernald School
Farm & Grounds Building
200 Trapelo Road
Waltham, Massachusetts

SCALE : 1" = 30'

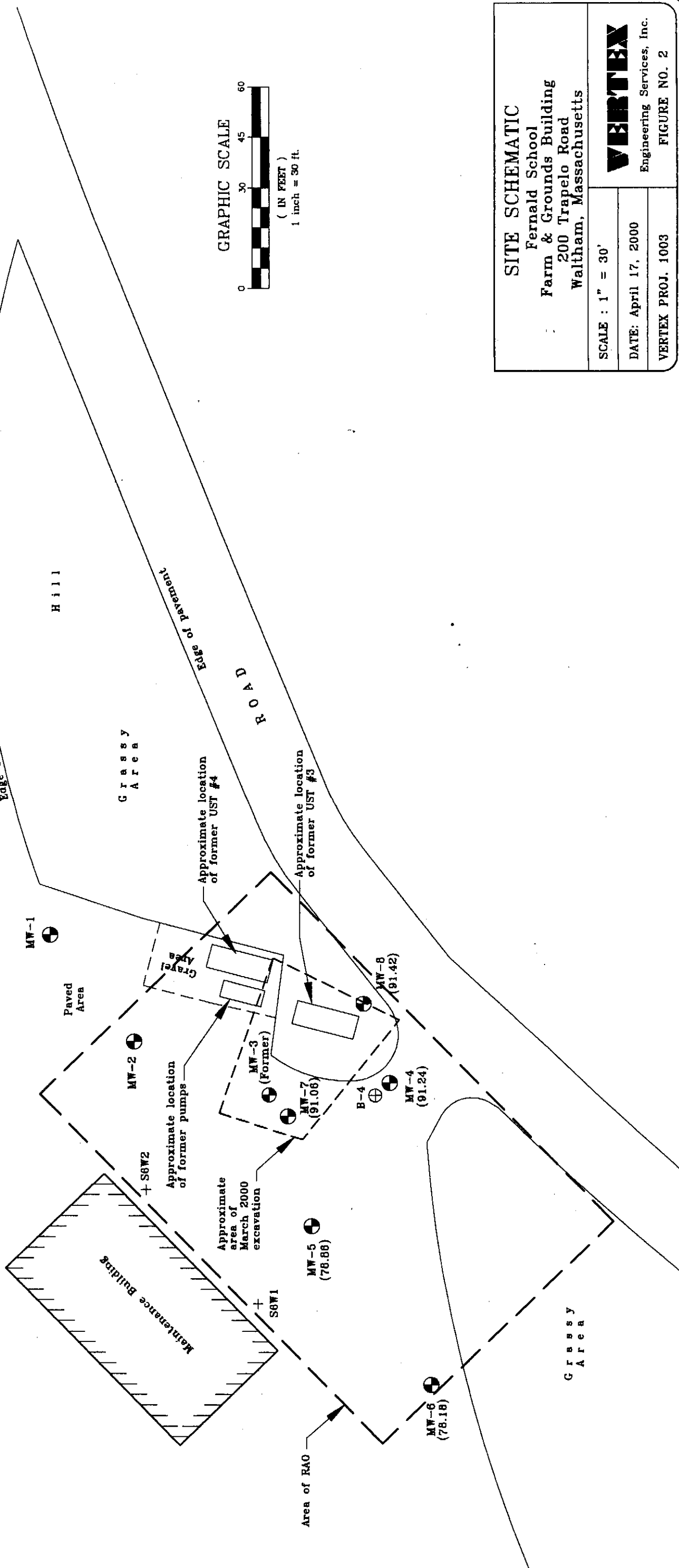
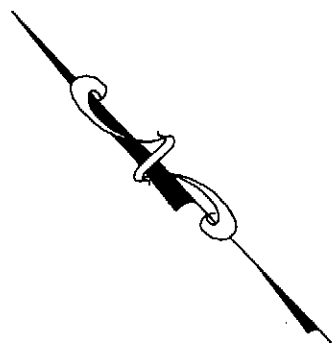
DATE: April 17, 2000

VERTEX PROJ. 1003

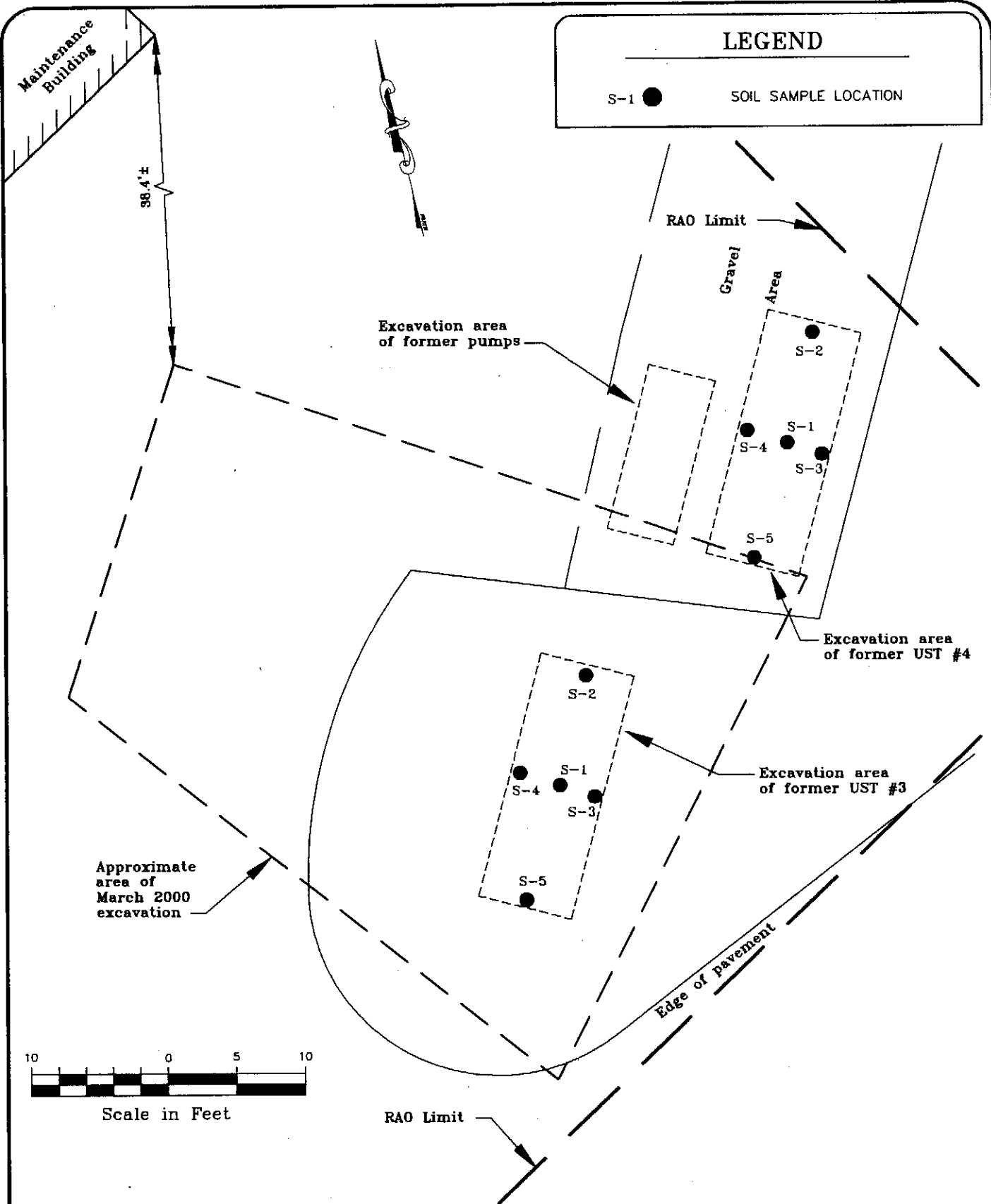


Engineering Services, Inc.

FIGURE NO. 2



Grassy Area

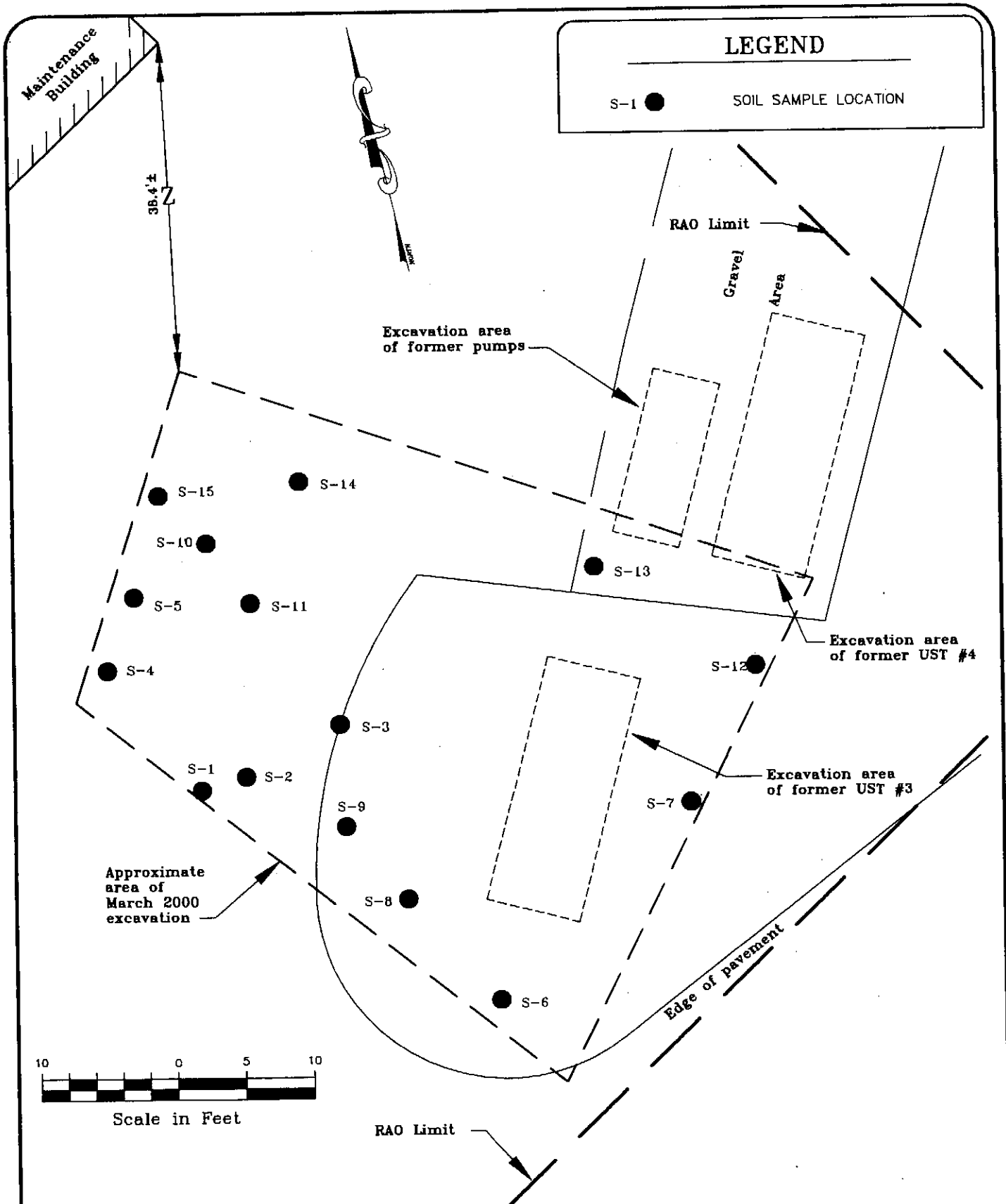


UST REMOVAL/POST EXCAVATION SCHEMATIC
 Fernald School
 Farm & Grounds Building
 200 Trapelo Road
 Waltham, Massachusetts

SCALE : 1" = 10'
 DATE: June 8, 2000
 VERTEX PROJ. 1003

VERTEX
 Engineering Services, Inc.
 FIGURE NO. 3

1003PXS.dwg



1003SL.dwg

SAMPLING LOCATIONS-MARCH 2000
 Fernald School
 Farm & Grounds Building
 200 Trapelo Road
 Waltham, Massachusetts

SCALE : 1" = 10'
 DATE: June 8, 2000
 VERTEX PROJ. 1003

VERTEX
 Engineering Services, Inc.
 FIGURE NO. 4

TABLES

Sample ID	Depth (bgs)	10'	10'	10'	10'	10'	10'	Method One Standard (mg/kg)
Depth (bgs)	10'	10'	10'	10'	10'	10'	10'	
TPH	ND	ND	ND	ND	ND	ND	ND	800
BTEX								
Benzene	ND	ND	ND	ND	ND	ND	ND	40
Toluene	ND	ND	ND	ND	ND	ND	ND	500
MTBE	ND	ND	ND	ND	ND	ND	ND	100
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	500
Xykene	ND	ND	ND	ND	ND	ND	ND	500

Mg/kg=ppm
 Bold=Above Method 1 Standard
 ND=Non detect

Title		Date				Location		Method	
Sample ID		Depth (bgs)				TOV's ppm		Mg/kg	
Bottom of Excavation		SS	SS	SS	SS	SS	SS	SS	SS
Bottom of Excavation		North Side Wall	East Side Wall	West Side Wall	South Side Wall	North Side Wall	East Side Wall	West Side Wall	South Side Wall
Depth (bgs)	8'	7'	7'	7'	7'	7'	7'	7'	7'
TOV's ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND
Analyte									
TPH	17	86	20	<17	20	20	20	20	800
BTEX									
Benzene	0.005	0.006	0.005	0.005	0.005	0.005	0.006	0.006	40
Toluene	0.005	0.006	0.005	0.005	0.005	0.005	0.006	0.006	500
Methyl tert-butyl Ether (MTBE)	0.005	0.006	0.005	0.005	0.005	0.005	0.006	0.006	100
Ethylbenzene	0.005U	0.006U	0.005U	0.005U	0.005U	0.005U	0.006U	0.006U	500
Xylene(total)	0.005U	0.006U	0.005U	0.005U	0.005U	0.005U	0.006U	0.006U	500

Mg/kg=ppm

ND=Non detect

U=detected below laboratory detection limits

Final Data Summary						
Final Screening and Analytical Results						
Sample ID	SI	SV	SS	SW	SP	Method On
	Bottom of Borehole	North Side Well	East Side Well	West Side Well	South Side Well	Composite Borehole Standards
Depth (bgs)	8'	7'	7'	7'	7'	
TOV's ppm	ND	ND	ND	ND	ND	NA
Analyte						
TPH mg/kg	22	49	41	27	45	800
VOC's mg/kg						
Benzene	0.005	0.006	0.005	0.005	0.006	0.007
Toluene	0.005	0.006	0.005	0.005	0.006	0.007
Methyl tert-butyl Ether (MTBE)	0.005	0.006	0.005	0.005	0.006	0.160
Ethylbenzene	0.005U	0.006U	0.005U	0.005U	0.006U	0.007U
Xylenes	0.005U	0.006U	0.005U	0.005U	0.006U	0.007U

Mg/kg=ppm

ND=Non detect

U=detected below laboratory detection limits

2010-2011 Season Excavation Results 2010-2011 Season Excavation Results							
Sample ID	Location	Depth	Notes	Sample ID	Location	Depth	Notes
SS-1	Southeast Wall	9'10"	ND	SS-9	Base of Excavation	11.5'	21
SS-2	Base of Excavation	10'	6	SS-10	Base of Excavation	11.5'	68
SS-3	Base of Excavation	11'	1.7	SS-11	Base of Excavation	11.5'	166
SS-4	West Wall	10'	1	SS-12	East Wall	12'	1
SS-5	West Wall	8'	ND	SS-13	North Wall	8-9'	11
SS-6	Base of Excavation	8-9'	ND	SS-14	North Wall	9'	NA
SS-7	Base of East Wall	13'	ND	SS-15	East Wall	10'	ND
SS-8	South Wall	20'	ND				

ND=nondetect

Table 6 Marion 2000-2001 Remediation Sampling Results (mg/L)					
Sample ID	SV Location Site Well	SK Nonferrous Well	SI Sorption Side Wall	SS Sorption Side Wall	Method Oil SI/GW2 Standard (mg/L)
Depth (bgs)	10'	10'	10'	10'	10'
TOV's ppm	ND	ND	11	ND	
Analyses					
EPH					
n-C9 to n-C18	BRL	BRL	BRL	BRL	1000
n-C19 to n-C36	43	BRL	BRL	BRL	2500
n-C11 to n-C22	BRL	BRL	BRL	BRL	800
PAH's	BRL	BRL	BRL	BRL	NA
VPH					
n-C5 to n-C8	BRL	BRL	2.1	BRL	100
n-C9 to n-C12	BRL	BRL	1.9	BRL	1000
n-C9 to n-C10	BRL	BRL	4.5	2.1	100
VOC's	BRL	BRL	BRL	BRL	NA

Mg/kg=parts per million

BRL= Below reportable limits

NA=Not Applicable-standard varies with compound

Table 7
 Fernald School- Farms and Grounds (USTs #3 & #4)
 Groundwater Sampling Results 1995 through 1999

Contaminant	1995		1996		1997		1998		1999		BRL
	Sample	Result	Sample	Result	Sample	Result	Sample	Result	Sample	Result	
c-5 to c-8 Aliphatics	1000	4000	NA	1,800	5,200	3,000	39	BRL(20)	BRL(20)	BRL(20)	BRL(20)
c-9 to c-12 Aliphatics	1000	20000	NA	9,100	17,000	11,000	82	63	BRL(20)	BRL(20)	BRL(20)
c-9 to c-10 Aromatics	5000	4000	NA	3,400	12,000	8,800	54	63	BRL(20)	BRL(20)	BRL(20)
Methyl <i>tert</i> -butyl Eth Benzene	50000	50000	NA	3,600	BRL(50)	BRL(25)	BRL(5)	BRL(5)	BRL(5)	BRL(5)	BRL(5)
Toluene	2000	7000	1,000	BRL(250)	BRL(10)	BRL(5)	BRL(1)	BRL(1)	BRL(1)	BRL(1)	BRL(1)
Ethylbenzene	6000	50000	6,300	3,200	1,300	460	BRL(5)	BRL(5)	BRL(5)	BRL(5)	BRL(5)
<i>meta</i> - and <i>para</i> -Xyle	30000	4000	49	250	1,100	790	BRL(5)	BRL(5)	BRL(5)	BRL(5)	BRL(5)
<i>ortho</i> -Xylene	6000	50000	6,400	3,100	7,100	5,200	15	BRL(5)	BRL(5)	BRL(5)	BRL(5)
Naphthalene	6000	50000	6,400	3,100	1,400	930	15	BRL(5)	BRL(5)	BRL(5)	BRL(5)
c-9 to c-18 Aliphatics	6000	6000	20	NA	560	510	BRL(5)	BRL(5)	BRL(5)	BRL(5)	BRL(5)
c-19 to c-36 Aliphatic	1000	20000	NA	NA	BRL(530)	NA	BRL(500)	BRL(530)	BRL(530)	BRL(500)	BRL(500)
c-11 to c-22 Aromatic	NA	20000	NA	NA	BRL(630)	NA	BRL(500)	BRL(530)	BRL(530)	BRL(500)	BRL(500)
Naphthalene	50000	30000	NA	NA	490	NA	BRL(200)	BRL(200)	BRL(200)	BRL(200)	BRL(200)
2-Methylnaphthalene	6,000	6,000	NA	NA	180	NA	NA	BRL(10)	BRL(10)	BRL(10)	BRL(10)
Phenanthrene	10000	3000	NA	NA	62	NA	NA	BRL(5)	BRL(5)	BRL(5)	BRL(5)
Acenaphthene	50	50	NA	NA	BRL(21)	NA	NA	BRL(10)	BRL(10)	BRL(10)	BRL(10)
	5000	5000	NA	NA	BRL(21)	NA	NA	BRL(10)	BRL(10)	BRL(10)	BRL(10)
	1,000	20,000	47,000	6,500	NA	NA	BRL(200)	NA	NA	NA	NA

NA=Not Analyzed
 ug/l=parts perbillion
 BRL=Below Reportable Limits

Table 8
Fernald School - Farm and Grounds (USTs #3 + #4)
Groundwater Analytical Results-March 21, 2000 and April 5, 2000

Parameter	3/21/00	4/5/00	3/21/00	4/5/00	3/21/00	4/5/00	3/21/00	4/5/00	3/21/00	4/5/00	3/21/00	4/5/00	3/21/00	4/5/00
c-5 to c-8 Aliphatics	1000	4000	2,200	1,400	26	BRL	BRL	140	BRL	77	BRL	BRL	BRL	BRL
c-9 to c12 Aliphatics	1000	20000	810	840	BRL	BRL	BRL	130	BRL	69	BRL	BRL	BRL	BRL
c-9 to c10 Aromatics	5000	4000	1,300	1,200	23	BRL	BRL	220	BRL	99	BRL	BRL	BRL	BRL
Methyl tert-butyl Eth Benzene	50000	50000	17	15	BRL	BRL	BRL	9	BRL	BRL	11	BRL	BRL	BRL
Toluene	2000	7000	21	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Ethylbenzene	6000	50000	10	8	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
meta- and para-Xylen	30000	4000	23	28	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
ortho-Xylene	6000	50000	13	19	BRL	BRL	BRL	19	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene	6000	50000	13	15	BRL	BRL	BRL	6	BRL	BRL	BRL	BRL	BRL	BRL
	6000	6000	21	22	BRL	BRL	BRL	7	BRL	BRL	BRL	BRL	BRL	BRL
c-9 to c-18 Aliphatics	1000	20000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
c-19 to c-36 Aliphatic	NA	20000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
c-11 to c-22 Aromatic	50000	30000	230	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene	6,000	6,000	13	21	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
2-Methylnaphthalene	10000	3000	14	18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Phenanthrene	50	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Acenaphthene	5000	5000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

BRL=Below Reportable Limits
 ug/l=parts per billion

APPENDIX A
RAO TRANSMITTAL FORM

APPENDIX B

MASS GIS MAP

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

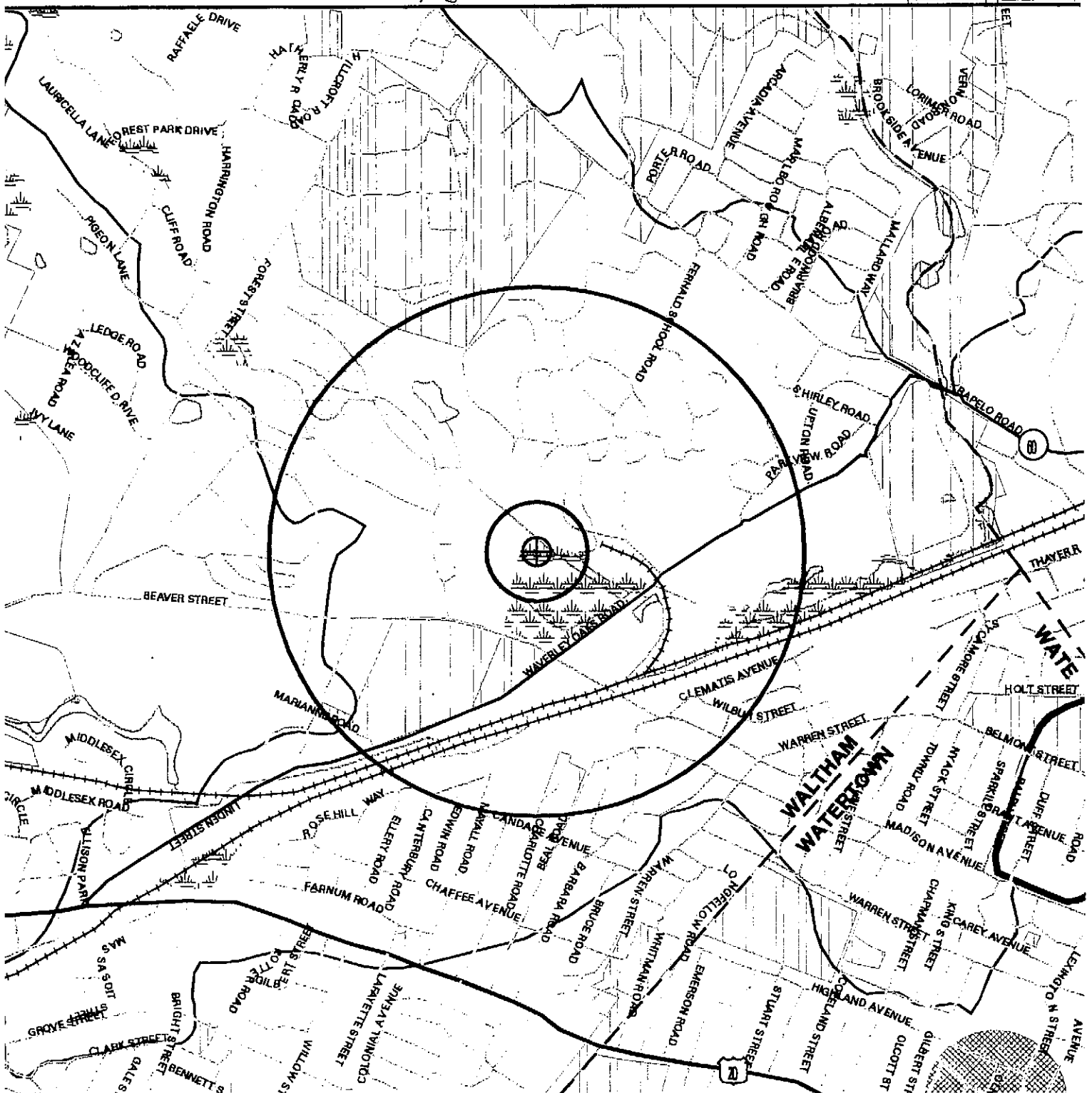
Lower Plant
100 Trapello Road
Waltham, MA
694830n 318000ew



The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Massachusetts
Geographic
Information
System



Roads: Interstate, US, State, Street, Trail	EPA Designated Sole Source Aquifer	
Boundaries: Municipal, County, DEP Region	Public Water Supplies: Ground, Surface, Non Community	
Train; Powerline; Pipeline	Approved Zone 2; MWPA; Surface Water Supply Zone A	
Drainage Basins: Major, Sub	Hydrography: Water Features, Public Surface Water Supply	
Streams: Perennial, Intermittent, Aqueduct	Wetlands: Fresh, Salt, NHESP Wetlands Habitat	
Potentially Productive Aquifers: Medium Yield, High Yield	Protected Open Space; ACEC	
Non-Potential Drinking Water Source Area: Medium, High Yield	DEP Permitted Solid Waste Facilities; Certified Vernal Pools	

SCALE 1:15000

0 1/2 1 KILMETERS

December 03, 1998

APPENDIX C

WEBB'S TIER CLASSIFICATION
AND SUBSURFACE INVESTIGATION REPORT

97 FEB 6 1995

**PHASE I REPORT AND
TIER CLASSIFICATION SUBMITTAL**

**PURSUANT TO MGL CHAPTER 21E AND
THE MASSACHUSETTS CONTINGENCY PLAN
(310 CMR 40.00 ET SEQ.)**

**WALTER E. FERNALD STATE SCHOOL
200 TRAPELO ROAD
WALTHAM, MA 02154**

**PREPARED FOR:
THE WALTER E. FERNALD STATE SCHOOL
200 TRAPELO ROAD
WALTHAM, MA 02154**

**PREPARED BY:
WEB ENGINEERING ASSOCIATES, INC.
106 LONGWATER DRIVE
NORWELL, MA 02061**

WEB FILE NO. 94-E-021

DATE SUBMITTED:

JUNE 15, 1995

**RECEIVED
PLANT OPERATIONS**

JUN 15 1995

**Walter E. Fernald State School
Waltham, MA 02154**

WEB ENGINEERING ASSOCIATES, INC.

106 LONGWATER DRIVE, SUITE 4
NORWELL, MASSACHUSETTS 02061
617-878-7766 • FAX 617-878-8004
1-800-273-7289

June 15, 1995

Mr. Michael Gorrasi, Environmental Analyst
Emergency Response Section
DEP/NERO
10 Commerce Way
Woburn, MA 01801

**RE: Fernald State School
Waltham, MA
RTN #3-10725
Web File No. 94-E-021
Phase I/Tier Classification**

Dear Mr. Gorrasi:

Web Engineering Associates, Inc. has prepared the enclosed Phase I Report and Tier Classification Submittal for the above referenced site as required by the Massachusetts Contingency Plan (310 CMR 40.00). The Massachusetts Department of Environmental Protection (MADEP) was notified of a threat of release pursuant to two failed tank tests (2-4,000 gallon unleaded gasoline tanks) on March 22, 1994. Subsequent to the notification, permission was granted on April 19, 1994 to uncover the tops of the tanks. This was verbally clarified by the MADEP on May 5, 1994 along with permission to stockpile contaminated soil.

Upon excavation, a limited amount of suspected contaminated soil (\pm 7 cubic yards) was stockpiled. Faulty check valves and venting systems were corrected on both tanks and the tank systems were retested and confirmed tight. However, not all the contaminated soil could be removed without jeopardizing the operation of the tanks and pumps. Further investigation was therefore ordered by the MADEP in August, 1994.

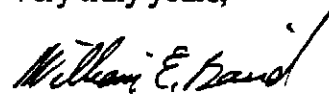
An initial IRA Plan for further investigation was submitted on March 2, 1995. A request for a revised IRA Plan was then issued by the MADEP on March 20, 1995. Web Engineering Associates, on behalf of the Fernald School responded to the March 20, 1995 letter from the MADEP and submitted the revised IRA Plan, April 3, 1995.

During the IRA activities, the year 1 deadline passed (March 22, 1995). This Phase I Report and Tier Classification will bring the site current with reporting requirements.

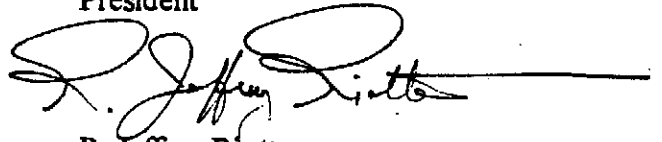
According to the Numerical Ranking System (NRS), the score for the site is 132. Based upon the NRS, the site is classified Tier II.

Please call if you have any questions concerning this site.

Very truly yours,



William E. Baird, PE, LSP
President



R. Jeffrey Riotte
Vice President

RJR/WEB/crf

cc: Maurice O'Connell, Fernald School

1.0 GENERAL DISPOSAL SITE INFORMATION

The site (Grounds Department, Fernald School, 200 Trapelo Road, Waltham, Massachusetts) is located on the southwest edge of the Fernald School property between Clamatis Brook (on the West side) and an un-named tributary to the east of the site. The Universal Transverse Mercator (UTM) coordinants are 4, 694, 875N, 318, 075E. The building occupying the site is a grounds/maintenance building constructed in 1973. There are less than 100 workers at the site. The residential population within 1/2 mile of the site is estimated to be greater than 1,000 people. The surrounding land use is both commercial and residential with the site comprising a portion of the institution (Walter E. Fernald State School).

1.1 Natural Resource Areas and Sources

The only natural resource areas within 500 feet of the site according to the USGS Quadrangles and the Mass GIS map are freshwater wetlands located south of the site and two small streams (Clematis Brook and an un-named stream) bordering the site on the west and east, respectively. Conservation Commission files revealed areas of Rare Wetlands Wildlife Habitat and Federal, State, and local open space 1/2 mile from the site.

According to the Flood Insurance Rate Map (FIRM) for the City of Waltham, the site is located within a Zone C designating an area of minimal flooding potential and part of the Charles River Drainage Basin.

The City of Waltham has a public water supply system which is part of the Massachusetts Water Resources Authority (MWRA) which receives its water through the Quabbin Reservoir system. In addition, the DEP Water Supply Protection Atlas (last updated in 1982) indicates that the City of Waltham has no sources of water located within a one mile radius of the site (See Appendix A for complete information on the environmental setting, history, and records review of the site).

2.0 SITE HISTORY AND PRESENT USE

2.1 Owner/Operator and Operations History

The site is part of the Walter E. Fernald State School which has been owned by the Commonwealth of Massachusetts since the turn of the century. However, this parcel, most likely was added to the grounds around 1930 (See Appendix A for complete site history). Prior to the Commonwealth of Massachusetts control of the property, the site was farmland. The current grounds building was constructed in 1973 and has been utilized as such since that time.

2.2 Release History

Review of federal databases reveal no National Priorities List or RCRA TDS list sites within one mile of the waste site. State and local files indicate numerous minor spills (see Appendix A for complete listing) within 1/2 mile radius of the site. In addition, a number of Locations to be Investigated and other transition sites under the Massachusetts Contingency Plan are within a one mile radius including a power plant spill just Southeast of the site involving #6 fuel oil. Also, Conservation Commission files recorded a small oil spill occurred in 1994 which was handled by Clean Harbors.

2.3 Oil and/or Hazardous Material Use and Storage History

There is no clear record as to when the two (2) 4,000 gallon gasoline storage tanks were installed at the grounds facility. Interviews with people from the School, however, suggest that a time from between 1970-1973 is reasonable and perhaps they were installed when the building was constructed.

2.4 Waste Management History

Since the early 1970s, maintenance equipment has been supplied with gasoline supplied by the two 4,000 gallon underground storage tanks. The tanks were tested in 1994 under 527 CMR 9.00 regulations and passed after piping arrangements were modified. In addition to the two underground tanks the maintenance building contains a 250 gallon free standing oil tank containing diesel fuel as well as assorted 55 gallon drums (approximately 10) of various different weight oils and waste oils.

2.5 Environmental Permits and Compliance History

As previously mentioned, leak detection requirements for the two 4,000 gallon gasoline tanks were met within the last year as well as spill containment and overfill requirements. The tanks, according to the Waltham Fire Department, have not been registered.

3.0 SITE HYDROGEOLOGICAL CHARACTERISTICS

3.1 Subsurface Investigations

On April 26, 1995 four soil borings were advanced by Technical Drilling Services under the supervision of Web Engineering personnel. Drilling was limited due to the presence of bedrock in the storage tank area. Thus, borings were limited to approximately 7 feet below grade except for boring #3 where the drill rig was able to penetrate fractured bedrock to approximately 11 feet below grade. Wells were set in borings #1, #2, and #3. Boring #4 had no well set as refusal was encountered prior to reaching groundwater. Refusal was also encountered in borings #1 and #2, however, well screens were set as the soil was slightly damp and there was thought to be the possibility that groundwater was present. This did not materialize.

The drilling locations were selected based upon having one upgradient well and three downgradient wells around the tank location (See figure 2). Boring logs from the drilling are included in Appendix C.

3.2 Surficial Features

The regional topography slightly North of the site slopes down rather steeply on either side of an un-named stream that eventually traverses the tank area just South of the tank locations. The immediate area of the tanks is not nearly as steep and eventually levels off into a wetland area Southwest of the tanks and the maintenance building. The stream eventually intercepts with Clematis Brook which drains into Beaver Brook.

3.3 Subsurface Soils

Soil samples collected during the installation of the monitoring wells indicated that the site soils consist mainly of brown to gray silty till with gravel cobbles and fractured bedrock. At approximately 6-9 feet refusal was encountered in all borings except for monitoring well #3 where the bedrock was sufficiently fractured to allow penetration to 11 feet.

3.4 Hydrogeology

The four borings (3 monitoring wells) were installed by Technical Drilling Services and witnessed by Web Engineering on April 26, 1995. On May 8, 1995, Web personnel returned and determined that only monitoring well #3 had any groundwater. A reading as to the depth to groundwater was taken as shown in Table 1 below.

TABLE 1: MONITORING WELL DATA, MAY 8, 1995

	<u>DEPTH TO GROUNDWATER BELOW GRADE (FEET)</u>	<u>PRODUCT THICKNESS</u>
MW-1	Dry at 8.83	N/A
MW-2	Dry at 6.41	N/A
MW-3	9.77	None
B-4	No Well Set (Dry)	NA
		N/A - Not Applicable

Review of this data indicates the presence of bedrock within 7 feet of grade and above the water table. It is not clear at this time whether the water encountered in MW-3 is true groundwater or whether it represents infiltration from grade settling in a relatively impermeable bedrock area.

In addition, according to the Massachusetts GIS maps, the site does not fall within any mapped GIS category or within 500 feet of any mapped category except for some freshwater wetlands due South of the site. No public water supply wells, Class A surface water, or Interim Wellhead Protection Areas are located within one-half mile of the property.

4.0 NATURE AND EXTENT OF CONTAMINATION

4.1 Soils

4.1.1 Analysis of Stockpiled Soil Taken From the Tops of the USTs

A composite soil sample was taken from the stockpiled soil at the site on May 8, 1995. This sample was subjected to asphalt batch testing

requirements (EPA 8260, RCRA 8, TPH by GC, EPA 8080, Ignitability, Reactivity, Corrosivity and Free Liquids). Results of the testing indicated no volatiles, TPH, PCBs or free liquids present (See Appendix B for laboratory results). Accordingly, the soils meet Method 1 S-1 standards and will be reused on site.

4.1.2 Analysis of Soils from Monitoring Wells

Split spoon samples were collected at five foot intervals during the installation of three monitoring wells and one soil boring on April 26, 1995 (See Appendix C for boring logs). Samples from MW-1, MW-2 recorded no Total Organic Vapor (TOV) readings while a sample from B-4 recorded a TOV reading of 8.9 ppm at 5-7 feet. However, MW-3 did register a TOV reading of 139 ppm at 10-12 feet. The laboratory results of the soil sampling can be found in Table 2 that follows.

TABLE 2: SOIL ANALYSIS FROM MONITORING WELLS/BORING

4/26/95

Sample Location	Volatile Aromatics (ppb)				Total Petroleum Hydrocarbons (ppm)
	Benzene	Toluene	Ethyl-benzene	Xylene	
MW-1 (5-7 feet)	ND	ND	ND	ND	ND
MW-2 (5-7 feet)	ND	ND	ND	ND	ND
MW-3 (5-7 feet)	ND	ND	ND	ND	ND
MW-3 (10-12 feet)	ND	2400	3200	27500	920
B-4 (5-7 feet)	ND	ND	ND	ND	ND

ND = Not Detected, Volatiles by EPA 602, TPH by GC/FID
See Appendix B for lab reports.

4.2 Groundwater

As previously mentioned, TOV meter readings from MW-3 indicated the presence of contamination at 10 - 12 feet. A groundwater sample was therefore taken on May 8, 1995 and analyzed for volatile aromatics (EPA Method 602) and total petroleum hydrocarbons (TPH by GC/FID). The results are shown in Table 3 below.

TABLE 3: GROUNDWATER ANALYSIS FROM MW-3

5/8/95

	Volatile Aromatics (ppb)				<u>Total Petroleum Hydrocarbons (TPH) ppm</u>
	Benzene	Toluene	Ethyl-benzene	Xylene	
MW-3	1000	6300	49	6400	47

No lab results for groundwater are available for MW-1, MW-2 or B-4 as refusal was encountered prior to reaching groundwater.

5.0 MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

Contamination at the site is gasoline which appears to be located in a pocket of fractured bedrock southwest of the site. The Fernald State School property is a mixture of administration, education and residential buildings with this particular disposal site located at the very southern edge of the State School property. It also appears likely that groundwater flow is in a southerly direction migrating eventually towards the wetlands south of the disposal site. With this in mind, potential exposure to site contaminants are limited to concerns over possible impact to area groundwater which discharges to the wetlands southwest of the property and away from populated areas of the school.

6.0 EVALUATION FOR IMMEDIATE RESPONSE ACTIONS

The original tank tests results for both gasoline tanks indicated a possible leak and therefore a 72 hour threat of release notification was instituted. Upon further examination (uncovering of the tank tops and piping) check valve failures and improper venting were identified and corrected. A second round of testing after piping modifications indicated that the tanks were tight. Therefore, at this time there is no indication that additional contaminants are entering the ground.

Current analysis of the site has been conducted under an IRA Plan verbally accepted by the DEP on April 19, 1995. Because contamination slightly exceeds acceptable standards for groundwater (assuming a GW-2 standard for groundwater), and based upon the IRA Plan, quarterly sampling of MW-3 will be continued. An IRA Completion Report will be filed with MADEP by June 15, 1995.

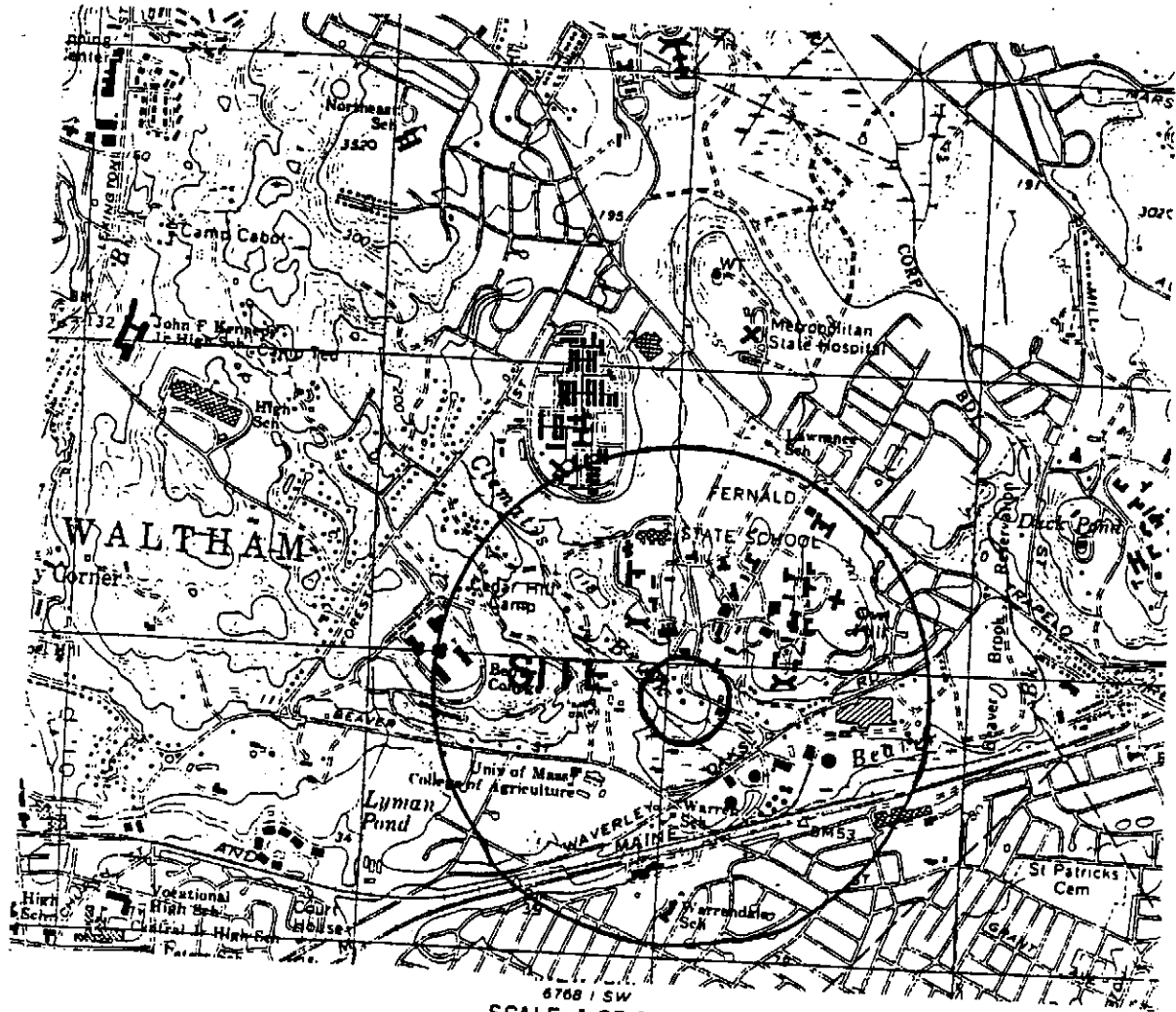
7.0 CONCLUSIONS

Based upon the findings of this assessment work, it can be concluded that a release of gasoline due to spilling and/or overfills concerning the two 4,000 gallon gasoline tanks has occurred. Because groundwater contaminants exceed Method 1 standards for the GW-2 category, MW-3 will be sampled on a quarterly basis and a decision as to whether further remediation or tank removal is most appropriate, will be made in the near future. Currently there is no reason to believe that an imminent hazard is associated with this release.

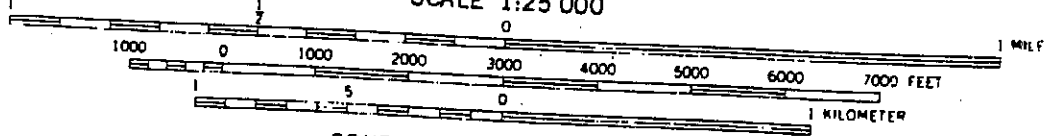
7.1 Tier Classification

The attached Numerical Ranking System (NRS) Scoresheet was completed using the results of this investigation. According to the NRS, the score for the site is 132. With this site score, the site will be classified as Tier II.

Figure 1
Site Location Map
Fernald State School



6768 1 SW
SCALE 1:25 000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETTIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

WEB ENGINEERING ASSOCIATES, INC.



ESA HISTORICAL RESEARCH REPORT

For the Site known as:

Grounds Department
Fernald School
200 Trapelo Road
Waltham, MA

Prepared for:

Steve Rumba
Web Engineering
106 Longwater Drive
Norwell, MA

Prepared by:

Susan McGrath
ESA Research Services
PO Box 440
Marion, MA 02738

June 2, 1995

ESA RESEARCH SERVICES

. PO BOX 440, MARION, MA 02738

June 2, 1995

Mr. Steve Rumba
Web Engineering
106 Longwater Drive
Norwell, MA

RE: ESA Historical Research Report
Grounds Department, Fernald School, 200 Trapelo Rd., Waltham, MA

Dear Mr. Rumba:

ESA Research Services is pleased to submit an ESA Historical Research Report for the above-referenced location, relative to ASTM Designation : E 1527 - 94, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Section 7, Records Review, and Section 10, Interviews with Local Government Officials.

This report included a review of federal databases, state and local environmental records at state and local agencies, a review of Site history, and interviews and discussions with local officials regarding Site history and usage.

It has been a pleasure working with you on this project. If I can be of further assistance, please do not hesitate to call. I will be glad to answer any questions or comments you may have.

Sincerely,



Susan McGrath

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INTRODUCTION

Mr. Steve Rumba contracted ESA Research Services (ESA) to conduct an ESA Historical Research Report regarding the property located at the Grounds Department, Fernald School, 200 Trapelo Road, in Waltham, MA (the "Site"). The investigation was designed to conform to ASTM Designation E 1527-94, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Section 7, Records Review, and Section 10, Interviews with Local Government Officials:

ESA's investigations consisted of:

Federal database review;

Federal, State, and local environmental records review at state and local agencies, regarding the use, storage, and/or release of oil or hazardous materials at the Site or in the Site vicinity;

Historical records review;

Interviews and discussions with local officials regarding the Site history and usage;

Data reduction and summarization.

The findings of ESA's investigations are contained in the report.

ENVIRONMENTAL SETTING

Geographic Location and Identification

The Site is located on the south side of Trapelo Road Street in an area zoned as a Conservation/Recreation area in Waltham, Massachusetts. The property is a portion of a 163.05 acre parcel. The Site is shown as a portion of Lot 001-0001 on Map 45 of the Waltham Assessor's Maps.

Surface Water Features

According to the Flood Insurance Rate Map (FIRM) for the City of Waltham, MA, Community Panel Number 250222 005 B and dated 12/18/79, the Site is located within a Zone C designating an area of minimal flooding potential.

According to the regional topographic map (Lexington, MA Quadrangle), the nearest upstream surface water body is Clematis Brook, located approximately 250 feet west of the Site, and the nearest downstream surface water body is Beaver Brook, located approximately 2000 feet southeast of the Site.

There are wetlands located within a 0.5 mile radius of the Site.

According to overlay information at the MA DEP, the Site is located in the Charles River Drainage Basin, subbasin 23.

Identification of Groundwater Category

The following summary of groundwater information is extracted from information reviewed at the MA DEP regarding the Site property. The Site's groundwater :

- a). **is not** within a Zone II;
- b). **is not** within an Interim Wellhead Protection Area;
- c). **is not** within a Potentially Productive Aquifer;
- d). **is not** within the Zone A of a Class A Surface Water Body;
- e). **is not** known to be located five hundred (500) feet or more from a public water distribution pipeline;
- f). **is not** located within five hundred (500) feet of a private water supply well.

Abutters

North: Fernald State School

South: Fernald State School Power Plant

East: Fernald State School

West: A vacant parcel, part of Lot 1-1, Map 54, owned by the Commonwealth of Massachusetts, and listed with the assessor's office as public service property. A portion of this parcel, abutting the Site, is delineated as wetlands.

OWNERSHIP

Current Ownership

Commonwealth of Massachusetts
200 Trapelo Road
Waltham, MA 02154

Prior Ownership

According to a review conducted at the Waltham Assessor's Office and the Fernald State School Library, a Book and Page reference regarding the Site was unavailable. Several properties located along Trapelo Road, acquired by the Commonwealth of Massachusetts in the 1930's, were listed with Book and Page references and are listed below. A chain of ownership for the actual Site property was not able to be developed during this review. (See Site History for available information regarding the Site property.)

<u>date</u>		<u>book & page</u>	<u>name</u>
7/31/31	- present - 7/31/31	5600 - 550	Commonwealth of Massachusetts City of Waltham
4/1930	- present	5460 - 286	Commonwealth of Massachusetts
7/8/03	- 4/1930 - 7/8//03		Francis Baldwin Phineas Lawrence
8/17/31	- present	5584 - 383	Commonwealth of Massachusetts
8/18/15	- 8/17/31 - 8/18/15		St. Elizabeth's Hospital of Boston Roman Catholic Archbishop of Boston
5/15/30	- present - 5/15/30	5463 - 288	Commonwealth of Massachusetts Clara D. Baldwin
4/21/30	- present - 4/21/30	5463 - 287 5463 - 286	Commonwealth of Massachusetts Charles F. Stone James R. Baldwin

SITE HISTORY

A review of available files and plans was performed at the Waltham Assessor's Office, the Building and Public Works Departments, the Fernald School Library, and the Waltham Public Library supplemented by the personal recollections of municipal officials and others familiar with the Site. The following is a summary of the information collected in this review relative to Site development:

According to a History of Fernald School, compiled and maintained by the Fernald School Library, and supplied by Ms. Bonnie Stetcher, school librarian, in 1889 the Commonwealth of Massachusetts purchased 18 acres of farm land, one house, and one barn in Waltham for the purpose of relocating the Massachusetts School for the Feeble Minded, previously located in Boston. In 1891, the original Administration Building was constructed and occupied.

A review of the 1911 Sanborn Fire Insurance Map, available at the Waltham Engineering Department, did not show the portion of the school on which the Site is located.

A review of the 1962 Sanborn Fire Insurance Map, available at the Waltham Public Library, revealed the Site as the location of the Farm House. A barn, shed, garage and slaughterer is noted to the northwest of the Farm House. No underground tanks are noted. (See Appendix C)

According to Mr. Moe O'Connell of the Fernald School, a barn and outbuildings, previously located on the Site, burned prior to the construction, in 1973, of the existing Grounds Department building. Mr. O'Connell stated that the underground tanks located on the Site were installed prior to his employment at the Fernald School, and he estimated that the two 4,000 gallon tanks had been installed for approximately 20 years.

The Site is currently the location of the Grounds Department of the Fernald School.

FEDERAL AND STATE ENVIRONMENTAL RECORDS REVIEW

Federal databases

Available records regarding releases of oil or hazardous materials were reviewed on May 30, 1995. No record of a release on the Site parcel or adjacent parcels was discovered during this review.

NPL

According to the National Priorities List, issued by the EPA, the following locations are located within a one (1) mile radius of the Site:

There are no (0) NPL sites located within a one (1) mile radius of the Site.

CERCLIS

Comprehensive Environmental Response, Compensation, and Liability Information System

The CERCLIS list is a compilation by the EPA, of known or suspected uncontrolled or abandoned hazardous waste sites, which the EPA has investigated, or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Superfund Act). The following locations are within a one half (.5) mile radius of the Site:

The CERCLIS list is unavailable for review at the DEP NERO.

RCRA TSD

According to the RCRA TSD list, issued by the EPA, the following locations which are involved in the treatment, storage or disposal of hazardous materials are located within a one (1) mile radius of the Site:

There are no (0) RCRA TSD facilities within a one (1) mile radius of the Site.

RCRA

Resource Conservation and Recovery Act

The EPA's RCRA report identifies and tracks hazardous waste from the point of generation to the point of disposal, in accordance with requirements regarding the generation, storage, transportation, treatment, or disposal of hazardous waste. The following RCRA generators are located on the Site parcel or adjacent parcels.

MAD073798720

Shriver Center, 200 Trapelo Road, Waltham

Massachusetts DEP

Available records regarding releases of oil and hazardous materials were reviewed by ESA Research Services at the DEP Northeast Regional Office in Woburn on May 30, 1995. A record of a release on the Site parcel or adjacent parcels was discovered during this review.

State Files

The following locations are listed on the DEP "List of Confirmed Disposal Sites and Locations To Be Investigated" (July, 1993) and the Tier Transition Classification List (July, 1994) The following locations are within a one (1) mile radius of the Site

**MA DEP ID #3-0010725, Fernald School, 200 Trapelo Road, Waltham, MA
LOCATION RELATIVE TO THE SITE: the Site
STATED GROUNDWATER FLOW: none stated**

See Appendix I

**MA DEP ID #3-0010367, Fernald School Power Plant, 200 Trapelo Road, Waltham, MA
LOCATION RELATIVE TO THE SITE: abutting to the southeast
STATED GROUNDWATER FLOW: not stated**

See Appendix J

**MA DEP ID #3-6013, Federal Center, 424 Trapelo Road, Waltham, MA
LOCATION RELATIVE TO THE SITE: 2100 feet northwest
STATED GROUNDWATER FLOW: not stated**

See Appendix K

**MA DEP ID #3-3078, Shell Oil, 313 Waverly Oaks Road, Waltham, MA
LOCATION RELATIVE TO THE SITE: 1400 feet southwest
STATED GROUNDWATER FLOW: not stated**

See Appendix L

**MA DEP ID #30011878, 200 Trapelo Road, Waltham, MA
LOCATION RELATIVE TO THE SITE: unknown
STATED GROUNDWATER FLOW: unknown**

File unavailable for review

MA DEP ID # 3-3-0010717, 411 Waverly Oaks Road, Waltham, MA

MA DEP ID #3-0454, Waverly Oaks Road, Waltham, MA

MA DEP ID #3-2787, 475 Trapelo Road, Waltham, MA

State Spill Records

Available records regarding spills of and contamination by oil and hazardous materials were reviewed on May 30, 1995. A record of contamination on or adjacent to the Site parcel was found in these files. The following locations are within a one half (1/2) mile radius of the Site:

<u>location</u>	<u>quantity</u>	<u>product</u>	<u>date</u>	<u>id#</u>
200 Trapelo Road	200 gal.	#6 fuel oil	11/30/80	-
	-	contaminated soil	3/16/92	N92-0350
	> 1 drum	misc. oil	6/24/92	N92-0797
	200 gal.	#6 fuel oil	1/2/86	N86-0005
424 Trapelo Road	-	#4 fuel oil	1/7/93	N93-0030
	-	#4 fuel oil	12/4/85	N85-0919
	-	#2 fuel oil	11/21/85	N85-0890
	51-100 gal.	#2 fuel oil	4/17/88	N88-0549
86 Trapelo Road	10-50 cy	asbestos	3/19/90	N90-0365
313 Waverly Oaks	+50 gal.	misc. oil	10/5/85	N85-0775
	-	-	4/21/83	N83-0047
	-	waste oil	11/30/89	N89-2003
	11-50 gal.	waste oil	1/16/90	N90-0072
	-	misc. oil	1/30/90	N90-0144
	51-100 gal.	#2 fuel oil	7/25/90	N90-1206
	1-10 drums	-	1/6/92	N92-0021
	1 gal	gasoline	1/13/84	N84-0611
	1-10 gal.	gasoline	3/7/89	N89-0307
	11-50 gal.	gasoline	1/29/91	N91-0123
	100 gal.	#2 fuel oil	12/10/84	N84-0811
	-	waste oil	4/25/85	N85-0018
	-	misc. oil	2/13/85	N85-0095
411 Waverly Oaks	-	sheen	7/2/93	N93-0894
	-	misc. oil	6/29/88	N88-0953
	-	misc. oil	3/30/93	N93-0346
	-	misc. oil	5/27/83	N83-0120
422 Waverly Oaks	-	misc. oil	8/15/80	-
Waverly Oaks/Beaver	< 50 gal.	transformer oil	10/13/84	N84-0681
240 Beaver Street	-	gasoline	11/19/91	N91-1626

Water Supply Protection Atlas

The DEP Water Supply Protection Atlas was reviewed to determine aquifer and waste source information for the area surrounding the property. The Atlas includes the Aquifer Information Overlay, the Water Source Overlay, the Drainage Basin Overlay, and the Waste Sources Overlay.

The **Aquifer** Information Overlay provides details of aquifer parameters. According to the Aquifer Information Overlay, the subject Site is located within an area designated as a portion of the Charles River Estuary. The aquifer parameters were not mapped by the USGS.

The **Waste** Sources Overlay provides information regarding waste sources, including Surface Impoundments, Dumps and Landfills, Automobile Junkyards, Hazardous Waste Sites, Salt Storage Areas, Injection Wells and NPDES discharge locations. The Waste Sources Overlay was unavailable for review.

The **Water** Sources Overlay provides information about the distribution of water supply areas. The Water Sources Overlay, last updated 1982, indicates that the City of Waltham has no sources of water located within a one (1) mile radius of the Site:

The **Drainage Basin** Overlay maps major river basin drainage divides and their subbasins. The subject Site is located in the Charles River drainage basin, subbasin 43

BWSC Priority Resource Map

The Bureau of Waste Site Clean-up Priority Resource Map, a compilation of information from the DEP, the Executive Office of Environmental Affairs and the Massachusetts Geographic Information System, is a new source of information in 1993. It delineates areas of Medium Yield Aquifers, High Yield Aquifer, Sole Source Aquifer, DEP Approved Wellhead Protection Areas, Interim Wellhead Protection Areas, Lakes, Ponds, Surface Water Features, Freshwater Non-forested Wetlands, Salt Water Wetlands, Tidal Flats, Protected Open Space, Areas of Critical Environmental Concern, DEP Approved Landfills -post 1971, NHESP Estimated Habitats of Rare Wetland Wildlife 1993, Major Drainage Basins, Sub-drainage Basin, Public Water Supply Groundwater, Public Water Supply Surface Groundwater, Public Water Supply Surface Water and Certified Vernal Pools.

Wetlands are noted abutting the Site to the west/southwest. A Stream is noted running north to south into the wetlands bordering the Site. A Surface Water Body is located approximately 1800 feet northwest of the Site. (See Appendix E)

LOCAL GOVERNMENT AGENCY RECORD REVIEW

A release of hazardous material or oil on or adjacent to the Site was revealed based upon reviews conducted at the Waltham Assessor's, Clerk, Engineering, Sewer, Water Division, Planning and Zoning, Inspectional Departments, the Conservation Commission, the Board of Health and the Fire Prevention Bureau.

Water Division

A review of available files at the Waltham Water Department concerning the Site was performed by Terry Cook. According to Department records, the original connection date to the MWRA water system was unavailable. The water source for the municipal water system is the Quabin Reservoir located in west/central Massachusetts.

Engineering Department

A review of available files concerning the Site at the Waltham Public Works/Engineering Department was performed by Russell Yashinsky. No record of a release of oil or hazardous material on or adjacent to the Site was discovered in this review of available Department files. According to Department records, the original connection to the municipal sewerage system was unavailable. Mr. Yashinsky provided access to the 1911 Sanborn Fire Insurance Map, a copy of Assessor's Map 45, and an aerial photograph flown in 1974.

Building Department

A review of available files concerning the Site at the Waltham Inspectional Department was performed by Don Cusano. No record of a release of oil or hazardous material on or adjacent to the Site was discovered during this review of available Department files. The earliest record of development at the Fernald School in Department files is 1983. According to Inspectional Department files, no permits are listed regarding the Grounds Department. (See Appendix G)

Conservation Commission

A review of available files at the Waltham Conservation Commission concerning the Site was performed by Gloria Champion. A record of a release of oil or hazardous material on or adjacent to the Site was discovered in this review of available Conservation Commission files. According to Ms. Champion, a small oil spill occurred last year, which was handled by Clean Harbors. Ms. Champion stated that the only filing with her department was regarding wetlands near the new food service building. According to the 1995 Estimated Habitat of Rare Wetlands Wildlife and Certified Vernal Pools; wetlands are located to the southwest of the Site; a Rare Wetlands Wildlife Habitat is located 1/2 mile northwest of the Site; Federal, State, or County Open Space is located 1/2 mile east of the Site; five (5) Certified Vernal Pools are located one (1) mile north of the Site.

Municipal Clerk's Office

A review of available files at the Waltham, MA Municipal Clerk's Office concerning the Site was performed by Henry Hoover. The following record of the installation or removal of an underground fuel oil storage tank at or near the Site was discovered in this review of available Clerk's Office files. The following locations are within a one half (1/2) mile radius of the Site:

<u>location</u>	<u>capacity</u>	<u>product</u>	<u>permitted</u>	<u>removed</u>
Shriver Ctr., 200 Trapelo Road	395 gals	-	3/28/95	-
Shell oil Co., 255 Waverly Oaks Rd.	30,000	gasoline	3/13/95	-

Public Health Department

A review of available files concerning the Site at the Waltham Board of Health was performed by Walter Sweder. A record of a release of oil or hazardous material on or adjacent to the Site was discovered in this review of available files. Information regarding 424 Trapelo Road and 200 Trapelo Road noted releases #N93-0030, RTN# 3-0006013, RTN# 3-10725 (the Site), and RTN# 3-10367. According to Mr. Sweder, he is unaware of any private wells located in the Site vicinity. (See Appendix H for copies of BOH file information)

Fire Department

A review of available files at the Waltham Fire Department concerning the Site was performed by Lt. Galvin. No records were available for review at the time of this investigation. According to Lt. Galvin, a ongoing computer problem in this department prevented access to all records regarding underground storage and spill records. At the time of this review, Lt. Galvin was unsure if records in the system had been permanently damaged, or would become accessible after June 5, 1995. Should additional information become available, an addendum to this report will be immediately forwarded.

REFERENCES

Record of Communication

DATE	NAME	AGENCY
5/30/95	Don Cusano	Building Department
5/30/95	Terry Cook	Water Department
5/30/95	Walter Sweder	Board of Health
5/31/95	Lt. Galvin	Fire Department
5/31/95	Henry Hoover	Municipal Clerk's Office
5/31/95	Gloria Champion	Conservation Commission
5/31/95	Russell Yashinsky	Engineering Department
5/31/95	Moe O'Connell	Fernald School
5/31/95	Bonnie Stetcher	Fernald School Librarian

Published References

- 1). Lexington, Topographic Quadrangle, 7.5 x 15 Minute Series
- 2). Flood Insurance Rate Map (FIRM) for the City of Waltham, MA, Community Panel Number 250222 0005 B, dated 12/18/79
- 3). Sanborn Fire Insurance Maps; 1911, 1962, Waltham Engineering, Waltham Public Library
- 4). History of Fernald School, Fernald School Library, Waltham, MA

Regulatory Records and Public Documents

- 1). State files, #s3-3078, 3-6013, 3-0010725, 3-0010367, DEP NERO, Woburn, MA.
- 2). CERCLIS, RCRA, Spills and General Files regarding the City of Waltham, DEP NERO, Woburn, MA
- 3). MA DEP Groundwater Overlay Atlases; Lexington Quad, DEP NERO, Woburn, MA
- 4). BWSC Map, DEP NERO, Woburn, MA
- 5). Landfill Inventory, DEP NERO, Woburn, MA
- 6). Aerial Photograph, 1974, Engineering, Waltham, MA
- 7). Assessor's Map 45, Waltham Assessor's, Waltham, MA
- 8). Water Resources Inventory, Conservation Commission, Waltham, MA
- 9). 1995 EHRWW & CVP Map, Conservation Commission, Waltham, MA
- 10). File Components, Board of Health, Waltham, MA
- 11). File Components, Building Department, Waltham, MA
- 12). Zoning Map, Engineering, Waltham, MA

DISCLAIMER

I have prepared an ESA Historical Research Report in Conformance with the scope and limitations of ASTM Practice E 1527-94 of the Grounds Department, Fernald School, 200 Trapelo Road, Waltham, MA., the "Site".

Documentation of each source is included within the text and also listed in the reference section of the report. All sources, including those that reveal no findings, are documented to facilitate reconstruction of the research. Accuracy and completeness of record information may vary among sources. In preparing this report, publicly available and practically reviewable record information from standard sources was obtained and reviewed. No other warranties, expressed or implied, are made.



Susan McGrath

June 2, 1995

date

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Release Abatement Measure Status Report
Massachusetts Department of Mental Retardation
Walter E. Fernald School-Farm and Grounds
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-10725
VERTEX Project No. 0405

Prepared For:

Massachusetts Department of
Environmental Protection
Bureau of Waste Site Cleanup
10 Commerce Way
Woburn, MA 01801

January 26, 1998

January 26, 1998

Massachusetts Department of Environmental Protection
10 Commerce Way
Woburn, MA 01801

Re: **Massachusetts Department of Mental Retardation**
Walter E. Fernald School-Farm and Grounds
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-10725
VERTEX Project No. 0405

To Whom It May Concern:

This letter constitutes a Release Abatement Measure (RAM) Status Report, as required by 310 CMR § 40.0445, for the above referenced property. The RAM Plan in affect at this site was submitted to the Massachusetts Department of Environmental Protection (MADEP) on April 18, 1997. The work to date has been performed in accordance with the RAM Plan.

Work Completed

The following activities have been performed since the filing of the Ram Plan.

On May 27, 1997 VERTEX observed the removal and disposal, by Keystone Environmental Services Inc. of 77 Accord Park Drive, Norwell Massachusetts, of two (2) 4,000 gallon gasoline underground storage tanks (UST's) "Tank -3 and Tank-4" including piping, gasoline pumps and appurtenances, residual fluids and sludges at the Farm and Grounds Building. Contaminated soils were excavated from the graves of the UST's and stockpiled. Following excavation activities, five (5) confirmatory soil samples from each were collected from each excavation field screened and analyzed for TPH and BTEX. The results of the analyses performed on the soil samples are included as Appendix A. A summary of these results is presented below in Table 1.

Table 1 - Screening and Analytical Results					
Sample ID	Sample Location	TCVS (ppm)	TPH (mg/kg)	BTEX - MTBE (ppm)	
Tank-3 (S-1)	Bottom of Excavation (8' below grade)	ND	17	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Tank-3(S-2)	Side Wall Up Gradient (7' below grade)	ND	86	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U
Tank-3(S-3)	Side Wall Toward Street (7' below grade)	ND	20	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Tank-3 (S-4)	Side Wall Toward Building (7' below grade)	ND	<17	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Tank-3 (S-5)	Side Wall Down Gradient (7' below grade)	ND	20	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

PPB = Parts Per Billion

U = Analyzed but not found

J = Estimated value, below quantitation limit

Table 1 - Screening and Analytical Results (continued)					
Sample ID	Sample Location	TOVs (ppm)	TPH (mg/kg)	BTEX + MTBE (ppm)	
Tank-4 (S-1)	Bottom of Excavation (8' below grade)	ND	22	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U
Tank-4(S-2)	Side Wall Up Gradient (7' below grade)	ND	49	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U
Tank-4(S-3)	Side Wall Toward Street (7' below grade)	ND	41	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Tank-4 (S-4)	Side Wall Toward Building (7' below grade)	ND	27	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Tank-4 (S-5)	Side Wall Down Gradient (7' below grade)	ND	45	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
Pumps-C	Excavation in Area of Gasoline Pumps (composite)	N/A	28	Benzene	0.007 U
				Toluene	0.007 U
				Ethylbenzene	0.007 U
				Xylene (Total)	0.007 U
				MTBE	0.160

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

PPB = Parts Per Billion

U = Analyzed but not found

J = Estimated value, below quantitation limit

As the above table shows, analytical results of the samples collected from the excavations do not indicate a significant impact of gasoline to soil.

In addition to soil sampling, VERTEX also obtain a groundwater sample from an existing on-site groundwater monitoring well. The sample was obtained by using a new polyethylene bailer lowered with polyethylene string. The well was purged until no water remained and then was allowed to recharge. The water samples were then bailed directly into pre-cleaned and labeled

laboratory supplied bottles. Samples were placed directly on ice in a cooler and hand delivered to Woods Hole Laboratories for analysis. Samples were analyzed for TPH by EPA Method 8100 Modified, BTEX and MTBE. Results of this sampling round on June 6, 1997 and that of Web Engineering's on May 8, 1995 are summarized below in Table-2. The results of analyses performed on the groundwater collected by VERTEX are included as Appendix B.

Table 2 - Groundwater Analytical Results													
Sample ID	Sample Location	TPH (ug/l)	BTEX + MTBE (ppb)										
MW-3 Web Engineering (5/8/95)	MW-3 (Near South Side of Tank-3)	22000	<table border="1"> <tr><td>Benzene</td><td>1,000</td></tr> <tr><td>Toluene</td><td>6,300</td></tr> <tr><td>Ethylbenzene</td><td>490</td></tr> <tr><td>Xylene (Total)</td><td>6,400</td></tr> <tr><td>MTBE</td><td>N/A</td></tr> </table>	Benzene	1,000	Toluene	6,300	Ethylbenzene	490	Xylene (Total)	6,400	MTBE	N/A
Benzene	1,000												
Toluene	6,300												
Ethylbenzene	490												
Xylene (Total)	6,400												
MTBE	N/A												
MW-3 Vertex Engineering (6/6/97)	MW-3 (Near South Side of Tank-3)	6500	<table border="1"> <tr><td>Benzene</td><td>250 U</td></tr> <tr><td>Toluene</td><td>3,200</td></tr> <tr><td>Ethylbenzene</td><td>250</td></tr> <tr><td>Xylene (Total)</td><td>3,100</td></tr> <tr><td>MTBE</td><td>3,600</td></tr> </table>	Benzene	250 U	Toluene	3,200	Ethylbenzene	250	Xylene (Total)	3,100	MTBE	3,600
Benzene	250 U												
Toluene	3,200												
Ethylbenzene	250												
Xylene (Total)	3,100												
MTBE	3,600												

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

PPB = Parts Per Billion

U = Analyzed but not found

J = Estimated value, below quantitation limit

Analytical results of the samples collected from MW-3 show a significant decrease in groundwater contamination over time and presently do not indicate a significant impact of gasoline to groundwater.

Tasks Remaining

Tasks remaining under the RAM Plan include the installation of an on-site downgradient monitoring well to further assess the groundwater quality conditions on-site.

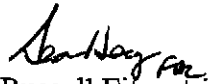
Site Status


The analytical results from the soil samples collected during the excavation do not indicate a significant impact of gasoline to the soil.

The analytical results from the MW-3 groundwater samples collected indicate a decrease of contaminants over time. Installation of a downgradient monitoring well to further assess groundwater quality conditions is planned.

Sincerely,

VERTEX Engineering Services, Inc.


Russell Fitzpatrick
Division Manager


James O'Brien, LSP
President

APPENDIX E:
SOIL BORING/MONITORING WELL LOGS

SOIL BORING/MONITORING WELL CONSTRUCTION LOG					BORING NO.: MW-4 Mon Well	
VERTEX Engineering Services, Inc.		PROJECT: 200 Trapello Road LOCATION: Waltham, MA DATE: 07/17/1998			PROJ. NO.: 1003 Driller: Geosearch Inspector: j. Friedan	
		SAMPLER	CASING	CORE	GROUNDWATER DEPTH MEASUREMENTS	
TYPE		Split spoon	HAS	--	RIM ELEV.=	
SIZE (ID)		2"	--	--	DATE:	
HAMMER (LB.)		140lb	--	N/A	TIME:	
FALL (IN.)		30"	--	N/A	DEPTH:	
SAMPLE				SOIL CLASSIFICATION		PID (ppm)
DEPTH	NO.	DEPTH	PEN/REC	BLOWS/6"		
0	MW4	5-7'	5-11-28-28	12/24"	Grey silty sand with gravel and cobbles	NA
10'	MW4	9-11	11-50-50/5	8/24"	Brown/gray med-fine sand with gravel Wet @ 9' Refusal @ 10' Air Hammer to 15' Water @ 13.5'	ND
15'					Well Set @ 15'	
20'						
25'						
30'						
35'						
40'						
MONITORING WELL CONSTRUCTION LOG						
DEPTH (FT.):	15'	SCREEN INTERVAL:	5-15'	BACKFILL OVER SEAL: Native		
DIA. (IN.):	2"	LENGTH OF RISER:	5'	SURFACE SEAL: NA		
MATERIAL:	PVC	DEPTH/TYPE PACK:	3-15'	ROADBOX DESC.: NA		
SLOT SIZE:	10	DEPTH/TYPE SEAL:	2-3' bent	SHEET 1 OF 1		

SOIL BORING/MONITORING WELL CONSTRUCTION LOG					BORING NO.: MW-5 Mon Well	
VERTEX Engineering Services, Inc.		PROJECT: 200 Trapello Road LOCATION: Waltham, MA DATE: 03/31/1999			PROJ. NO.: 1003 Driller: American Inspector: Bob Murphy	
		SAMPLER	CASING	CORE	GROUNDWATER DEPTH MEASUREMENTS	
TYPE		Split spoon	HAS	-	RIM ELEV. =	
SIZE (ID)		2"	--	--	DATE:	
HAMMER (LB.)		140lb	--	N/A	TIME:	
FALL (IN.)		30"	--	N/A	DEPTH:	
SAMPLE					SOIL CLASSIFICATION	
DEPTH	NO.	DEPTH	PEN/REC	BLOWS/6"	PID (ppm)	
0					Auger to 13' dark brown fine silty sand with cobbles	
5'						
10'					Auger refusal @13' switch to Air Hammer Weathered Bedrock	
15'					Air Hammer to 35'	
20'					Well set at 35'	
25'						
30'						

MONITORING WELL CONSTRUCTION LOG					
DEPTH (FT.):	35'	SCREEN INTERVAL:	10-35'	BACKFILL OVER SEAL:	Native
DIA. (IN.):	2"	LENGTH OF RISER:	10'	SURFACE SEAL:	Concrete
MATERIAL:	PVC	DEPTH/TYPE PACK:	9-35'	ROADBOX DESC. 6" diam. Cl. Roadbox	
SLOT SIZE:	0.1	DEPTH/TYPE SEAL:	0-9' bent		SHEET 1 OF 1

SOIL BORING/MONITORING WELL CONSTRUCTION LOG					BORING NO.: MW6 Mon Well		
VERTEX Engineering Services, Inc.		PROJECT: 200 Trapello Road LOCATION: Waltham, MA DATE: 03/31/1999			PROJ. NO.: 1003 Driller: American Inspector: S. Healey		
		SAMPLER	CASING		GROUNDWATER DEPTH MEASUREMENTS		
TYPE		Split spoon	HAS	--	RIM ELEV. =		
SIZE (ID)		2"	--	--	DATE:		
HAMMER (LB.)		140lb	--	N/A	TIME:		
FALL (IN.)		30"	--	N/A	DEPTH:		
SAMPLE					SOIL CLASSIFICATION		PID (ppm)
DEPTH	NO.	DEPTH	PEN/REC	BLOWS/6"	Auger to 11' Dry medium brown fine silty sand with cobbles Brown grey moist silty sand with cobbles Auger refusal begin to air hammer Weathered Bedrock Water encountered Well set at 27'		
0							
5'							
10'							
15'							
20'							
25'							
30'							
35'							
MONITORING WELL CONSTRUCTION LOG							
DEPTH (FT.):	27'	SCREEN INTERVAL:	17-27'	BACKFILL OVER SEAL:	Native		
DIA. (IN.):	2"	LENGTH OF RISER:	17'	SURFACE SEAL:	Concrete		
MATERIAL:	PVC	DEPTH/TYPE PACK:	14-27'	ROADBOX DESC.:	6" diam. Cl. Roadbox		
SLOT SIZE:	0.1	DEPTH/TYPE SEAL:	0-14' bent	SHEET 1 OF		1	

SOIL BORING/MONITORING WELL CONSTRUCTION LOG	BORING NO.: B-2 Mon Well MW-7
---	----------------------------------

VERTEX Engineering Services, Inc.	PROJECT: 200 Trapello Road	PROJ. NO.: 1003
	LOCATION: Waltham, MA	Driller: Geosearch
	DATE: 03/15/2000	Inspector: S. Healey

	SAMPLER	CASING	CORE	GROUNDWATER DEPTH MEASUREMENTS			
TYPE	Split spoon	HAS	--	RIM ELEV. =			
SIZE (ID)	2"	--	--	DATE:			
HAMMER (LB.)	140lb	--	N/A	TIME:			
FALL (IN.)	30"	--	N/A	DEPTH:			

SAMPLE					SOIL CLASSIFICATION	PID (ppm)
DEPTH	NO.	DEPTH	PEN/REC	BLOWS/6"		
0	MW-7	0-5'	NA	NA	Auger to 11'	NA
5'	MW-7	5-7'	NA	NA	Auger to 11'	NA
11'	MW-7	11-13'			Auger refusal @13' switch to Air Hammer	NA
15'	MW-7	13-20'			Air Hammer to 20'	NA
20'					Well st at 20' Bottom of boring at 20'	

MONITORING WELL CONSTRUCTION LOG						
DEPTH (FT.):	20'	SCREEN INTERVAL:	20-5'	BACKFILL OVER SEAL:	Native	
DIA. (IN.):	2"	LENGTH OF RISER:	5'	SURFACE SEAL:	Concrete	
MATERIAL:	PVC	DEPTH/TYPE PACK:	20-4'	ROADBOX DESC.:	6" diam. Cl. Roadbox	
SLOT SIZE:	0.1	DEPTH/TYPE SEAL:	20-3'	SHEET 1 OF 1		

SOIL BORING/MONITORING WELL CONSTRUCTION LOG					BORING NO.: B-3 Mon Well MW-8		
VERTEX Engineering Services, Inc.		PROJECT: 200 Trapello Road			PROJ. NO.: 1003		
		LOCATION: Waltham, MA			Driller: Geosearch		
		DATE: 03/15/2000			Inspector: S. Healey		
	SAMPLER	CASING	CORE	GROUNDWATER DEPTH MEASUREMENTS			
TYPE	Split spoon	HAS	--	RIM ELEV.:=			
SIZE (ID)	2"	--	--	DATE:			
HAMMER (LB.)	140lb	--	N/A	TIME:			
FALL (IN.)	30"	--	N/A	DEPTH:			
SAMPLE					SOIL CLASSIFICATION		PID
DEPTH	NO.	DEPTH	PEN/REC	BLOWS/6"			(ppm)
0	MW-8	0-8'	NA	NA	Auger to 8'		NA
8'	MW-8	8-10'	12/24"	5-19-36-50/2	Brown to grey fine to med sand with pebbles and broken cobbles		NA
10'					Wet at 10' Auger refusal at 10' begin Air Hammer		
15'	MW-8	13-20'			Air Hammer to 15' Set well at 15' Bottom of boring at 15'		NA
MONITORING WELL CONSTRUCTION LOG							
DEPTH (FT.):	15"	SCREEN INTERVAL:	15-5'	BACKFILL OVER SEAL: Native			
DIA. (IN.):	2"	LENGTH OF RISER:	5'	SURFACE SEAL: Concrete			
MATERIAL:	PVC	DEPTH/TYPE PACK:	15-4'	ROADBOX DESC.: 6" diam. Cl. Roadbox			
SLOT SIZE:	0.1	DEPTH/TYPE SEAL:	15-3'	SHEET 1 OF 1			

APPENDIX F

BILL OF LADING AND HAZARDOUS WASTE MANIFESTS

Make application to local Fire Department.

Fire Department retains original application and issues duplicate as Permit.

Farm and
Grounds



Commonwealth of Massachusetts

Department of Fire Services - Board of Fire Prevention

APPLICATION and PERMIT

Fee: 50⁰⁰

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

Tank Owner	
Tank Owner Name (please print) <u>Comm of Mass DMR</u>	X _____ <small>Signature (if applying for permit)</small>
Address <u>160 No Washington St</u> <small>Street</small>	<u>Boston</u> <small>City</small>
	<u>MA 02114</u> <small>State Zip</small>
Removal Contractor	Contamination Assessment
Company Name <u>KeyStone Environmental</u> <small>Print</small>	Co. or Individual <u>Vertex</u> <small>Print</small>
Address <u>77 Beacon Ave Drive Norwell MA 02061</u> <small>Print</small>	Address <u>410 Lehigh Parkway Weymouth, MA</u> <small>Print</small>
Signature (if applying for permit) <u>[Signature]</u>	Signature (if applying for permit)
<input type="checkbox"/> IFCI Certified Other _____	<input type="checkbox"/> IFCI Certified <input checked="" type="checkbox"/> LSP # _____ Other _____
Tank Information	
Tank Location <u>200 Trapello Rd (Remold School) Waltham</u> <small>Street Address City</small>	
Tank Capacity (gallons) <u>4000 G.</u>	Substance Last Stored <u>Gasoline</u>
Tank Dimensions (diameter x length) _____	
Remarks: _____	
Disposal Information	
Firm transporting waste <u>Western Environmental</u>	State Lic. # <u>MA416</u>
Hazardous waste manifest# <u>MA6298033</u>	E.P.A. # <u>MA500000315</u>
Approved tank disposal yard <u>BRISCO BARRIE / BROOKTON CEM</u>	Tank yard # <u>010</u>
Type of inert gas <u>Dry Ice</u>	Tank yard address <u>45 Freight St Brockton, MA 02402</u>
Approvals	
City or Town <u>WALTHAM</u>	FDID# <u>17308</u> Permit# <u>485</u>
Date of issue <u>5/19/97</u>	Date of expiration _____
Dig safe approval number: _____	Dig Safe Toll Free Tel. Number - 800-322-4844
Signature / Title of Officer granting permit <u>[Signature] LSP Rep on site</u>	<u>5/24/97</u>

After removal(s) send Form FP-290R signed by Local Fire Dept. to UST Regulatory Compliance Unit, One Ashburton Place, Room 1310, Boston, MA 02108-1618.

EXHIBIT C-11

RTN 3-0021380, Thom Building

Site Information			
Site Number:	3-0021380	Category:	TWO HR
Site Name:	THOM BUILDING	Release Type:	RAO
Address:	FERNALD CENER 200 TRAPELLO RD	Current date:	7/16/2002
Town:	WALTHAM	Phase:	
Zipcode:	02454-6302	RAO class:	
Official notification date:	1/7/2002	Location type:	STATE
Initial status date:	1/7/2003	Source:	PIPE

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	7/16/2002
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	7/16/2002
RAO class:	A1
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	2/28/2002
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	1/7/2002
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
FUEL OIL #2	10	GAL
FUEL OIL #2	19	GAL

LSPs	
LSP#	Name
8493	KLINGLER, BRIAN F

RAO Detail			
Class	Method	GW Category	Soil Category
A1	1	2	1
A1	1	2	1

**IMMEDIATE RESPONSE ACTION COMPLETION &
RESPONSE ACTION OUTCOME STATEMENT**

FERNALD CENTER, THOM BUILDING

200 TRAPELO ROAD

NIA-C

WALTHAM, MASSACHUSETTS

RELEASE TRACKING NUMBER 3-21380

SUBMITTED TO:

**Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205A Lowell Street
Wilmington, Massachusetts 01887**

**July 9, 2002
Conoco Project No. 4613.A**



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PERMITTING

July 9, 2002
Project No. 4613.A

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205A Lowell Street
Wilmington, Massachusetts 01887

RE: **Immediate Response Action Completion & Response Action Outcome Statement**
Massachusetts Department of Mental Retardation Fernald Center
Thom Building
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21380


To Whom It May Concern:

Coneco Engineers and Scientists (Coneco) has prepared the following Immediate Response Action (IRA) Completion and Response Action Outcome (RAO) Statement to address a release of petroleum products at the Thom Building of the Massachusetts Department of Mental Retardation Fernald Center located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter the, "Site." The enclosed report was prepared in accordance with 310 CMR 40.1000 of the Massachusetts Contingency Plan and is based on Coneco's IRA Plan, previously submitted to the Department of Environmental Protection (DEP) on April 8, 2002. In summary, it is the opinion of Coneco that a condition of "No Significant Risk" exists at the Site. This submittal contains the following:

- Immediate Response Action Transmittal Form (BWSC-105)
- Response Action Outcome Transmittal Form (BWSC - 104)
- Copies of Municipal Notifications

Coneco's oversight and assessment findings are detailed in the attached report. If there are any questions, please contact the undersigned.

Sincerely,
Coneco Engineers and Scientists


Jedd S. Steinglass
Project Manager

JSS:BFK:jd
JSS/4613.A.ira.rao.doc



Brian F. Klingler, P.G., L.S.P.
Principal Geologist

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Figure 2	Site Plan
Figure 3	IRA Excavation Plan
Figure 4	Conceptual Site Model
Figure 5	DEP GIS Site Scoring Map

APPENDICES

- Appendix 1 Site Photographs
- Appendix 2 Site-Specific Health and Safety Plan
- Appendix 3 Copy of Release Notification Form (BWSC-103)
Immediate Response Action Transmittal Form (BWSC-105)
Response Action Outcome Transmittal Form (BWSC - 104)
Copies of Municipal Notifications
- Appendix 4 Uniform Hazardous Waste Manifests
- Appendix 5 Original Laboratory Data, Laboratory QA/QC, Methods, Chain-Of-Custody Form

1.0 INTRODUCTION

The release occurred at the Thom Building of the Massachusetts Department of Mental Retardation Fernald Center, located at 200 Trapelo Road in Waltham, Massachusetts. The release occurred as a result of a malfunctioning supply pump, which services the diesel generator located in the basement of the Site building. According to on-Site personnel, approximately 12 gallons of diesel fuel was released. As reported, the release of petroleum impacted the solid concrete slab floor of the generator room and migrated beneath the generator room door to the exterior portion of the Site. As a result, an isolated portion of soil and asphalt located directly adjacent to the generator room was impacted by the release.

The Disposal Site, as defined by 310 CMR 40.0006, is defined as the area in which stained soil was observed at the Site. As such, the approximately 50 square-foot area located adjacent to the southern exterior wall of the Thom Building generator room is considered to be within the limits of the Disposal Site. Site photographs are included as Appendix 1. A Site Specific Health and Safety Plan is enclosed for reference as Appendix 2. A Site Locus Map and Site Plan are provided for reference as Figures 1 and 2, respectively.

1.1 Site Parameters

Person Assuming

Responsibility: Ms. Joanne Ciardello
Director of Operations
Fernald Center
200 Trapelo Road
Waltham, Massachusetts 02452-6302
Phone: (781) 894-3600

Disposal Site

Limits: This release of petroleum occurred as a result of a malfunctioning supply pump, which services the diesel-fired generator located in the basement of the Site building. The release impacted the solid concrete slab floor and a limited area of surficial soil. The impacted materials associated with this release were limited to the boundaries of the Disposal Site.

Coordinates: Latitude 42° 23' 26" N Longitude 71° 12' 30" W
UTM 4,695,300 Meters N 318,200 Meters E (Zone 19)

Adjacent

Properties: The Disposal Site is located within the Fernald Center, a residential and school facility operated by the Massachusetts Department of Mental Retardation. The Fernald Center is situated within a primarily residential area of Waltham, Massachusetts. Private residences and commercial properties surround the Site.

2.0 BACKGROUND

2.1 Release History

At approximately 12:00 pm on January 7, 2002, personnel of the Fernald Center detected a release of greater than ten gallons of petroleum in the generator room of the Site building. As a result of these conditions, notification was provided to the Department of Environmental Protection (DEP) Northeast Regional Office (NERO) at 12:15 pm on January 7, 2002. Pursuant to 310 CMR 40.0311, once knowledge that a reportable condition existed at the Site, notification was provided to the DEP within the required 2-hour time frame. DEP Release Tracking Number (RTN) 3-21380 was issued for the release. In accordance with 310 CMR 40.0371, a Release Notification Form (BWSC-103) was submitted to the DEP-NERO on February 28, 2002. A copy of the Release Notification Form (BWSC-103) is included in Appendix 3.

2.2 Emergency Response

Immediately following the release, personnel of Dowling Corporation (Dowling) of Wrentham, Massachusetts applied absorbent materials to the release area and recovered any residual product. Product and impacted absorbent materials were placed in two 55-gallon drums and transported under Uniform Hazardous Waste Manifest to the General Chemical facility in Framingham, Massachusetts for disposal on March 14, 2002. A Copy of the Uniform Hazardous Waste Manifest is provided for reference as Appendix 4.

3.0 IMMEDIATE RESPONSE ACTION

The focus of the IRA is as follows: 1) further delineation of impacted materials and 2) the removal of petroleum-impacted materials.

The focus of the petroleum-impacted material removal is to reduce EPH concentrations throughout the Disposal Site to concentrations such that a Class A Response Action Outcome can be achieved.

3.1 Delineation Activities

On January 17, 2002, Coneco personnel collected five surficial soil samples, designated S-01 through S-05, from the area located adjacent to the southern exterior wall of the generator room of the Thom Building. Samples were collected in order to evaluate the nature and extent of the release. Soil samples S-01 through S-03 were collected from points located directly adjacent to the exterior wall of the generator room. Soil samples S-04 and S-5 were collected from points located approximately 10 feet south of the release area to obtain initial baseline information prior to the removal of potentially petroleum-impacted media from the Site. Sample locations can be referenced in Figure 2, the Site Plan.

The soil samples collected on this day were submitted to Spectrum Analytical, Inc. (Spectrum), an independent Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. Results of EPH analysis are presented in the following Table 1. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 5.

Table 1 - Soil Analytical Results

Analyte	S-01	S-02	S-03	S-04	S-05
C9-C18 Aliphatics	2,900	11,000	160	ND	ND
C19-C36 Aliphatics	1,300	5,900	150	ND	ND
C11-C22 Aromatics	2,838	9,965	163	ND	ND

Notes: All results are provided in mg/Kg.
ND = Not Detected above laboratory quantification limits.

3.2 Excavation Activities

On May 29, 2002, Coneco personnel conducted the hand excavation of surficial soils located adjacent to the generator room in order to remove petroleum-impacted media. Based on the results of initial delineation activities, Coneco personnel removed an approximately 16 square-foot section of asphalt and hand excavated impacted soil to a depth of approximately 14 inches below grade. As a result of excavation activities, approximately 0.65 cubic yards of petroleum-impacted media were removed and stored on-Site in two 55-gallon drums for subsequent transport under Uniform Hazardous Waste Manifest and disposal at an appropriate receiving facility.

Observations made during the performance of soil excavation activities indicated overburden materials consisting of a gravely silty sandy fill comprising mostly medium sand, 20% fine to coarse surrounded gravel, 10% slightly plastic fines, and occasional small cobbles. This unit was observed to a depth of approximately 14 inches below surface grade, the maximum depth of excavation. Construction debris consisting of a small volume of brick and concrete were noted within the fill material. Bedrock and groundwater were not encountered during excavation activities.

3.3 Confirmatory Soil Sampling

Following the completion of excavation activities on May 29, 2002, Coneco personnel collected confirmatory soil samples from within the excavation area. Soil samples were collected from the base of the excavation at a depth of approximately 14 inches below grade. Three select soil samples, designated S-101 through S-103 and collected from points evenly distributed throughout the excavation area, were submitted to Spectrum Analytical, Inc. (Spectrum), a Massachusetts-certified analytical laboratory located in Agawam, Massachusetts, for analysis of EPH by the MA DEP Method. As a result of EPH analyses no detectable concentrations of petroleum hydrocarbons were identified in the submitted confirmatory soil samples. Original laboratory data, laboratory QA/QC, methods, and the chain-of-custody form are included as Appendix 5.

3.4 Remediation Waste

Following emergency response actions completed by personnel of Dowling, two 55-gallon drums of petroleum-impacted absorbent material and recovered product were removed from the Site on March 14, 2002 under Uniform Hazardous Waste Manifest. The impacted materials were disposed of at the General Chemical facility in Framingham, Massachusetts. A copy of the Uniform Hazardous Waste Manifests is provided for reference as Appendix 4.

As part of response actions conducted at the disposal Site, approximately 0.65 cubic yards of petroleum-impacted media were removed and stored on-Site in two 55-gallon drums for subsequent transport and disposal at an appropriate receiving facility. The generated drums were removed from the Site on July 1, 2002 under Uniform Hazardous Waste Manifest and transported to the Northland Environmental facility in Providence, Rhode Island. A copy of the Uniform Hazardous Waste Manifests is provided for reference as Appendix 4.

4.0 METHOD 1 RISK CHARACTERIZATION

Under the MCP (310 CMR 40.0000), once a property has been designated as a Disposal Site, a risk assessment is necessary to demonstrate that a condition of "No Significant Risk" to health, safety, public welfare, and the environment exists at the Disposal Site. Otherwise, further remedial actions are required to achieve a condition of "No Significant Risk."

To determine whether further action is required at the Site, it is first necessary to determine whether a condition of "No Significant Risk" exists using MCP Risk Characterization procedures. A Method 1 Risk Characterization uses a published list of contaminants, and provides risk characterization standards for these contaminants of concern. The following sections present the classifications of soil and groundwater for an MCP Method 1 Risk Characterization, and the applicable threshold concentrations for the contaminants present at the Site.

The basis for the Method 1 Risk Characterization is the Conceptual Site Model (CSM), included as a stem and leaf diagram in Figure 4. The CSM documents known or potential sources of contamination, affected media, known or potential routes of migration, and known or potential human and environmental receptors.

4.1 Soil Categories

The classifications for soil are listed at 310 CMR 40.0933. Soil at a given site is classified as either S-1, S-2, or S-3, based upon exposure potential. Frequency of use by adults and children, the intensity of the use of the Site, and the accessibility of the soil are considered in the classification of soil. Frequency of use is classified as "high, low, or not present." Intensity is classified as "high or low," and soil accessibility is described as "accessible, potentially accessible, or isolated." These criteria are as follows:

Frequency of Use: The Disposal Site is located within the boundaries of a Massachusetts Department of Mental Retardation Facility. As such, children and adults are considered present at the Site at a "high frequency".

Intensity of Use: Intensity of use is considered "low," as normal Site activities do not have the potential to disturb soil.

Accessibility: Impacted surficial soils were observed between zero and 14 inches below grade. The surface area of the Disposal Site is paved, therefore the soil is considered "potentially accessible."

Using these parameters, soil at the Disposal Site is classified as Category S-2.

4.2 Groundwater Categories

The classifications for groundwater are listed at 310 CMR 40.0932. Groundwater at all locations is classified as category GW-3, based upon its potential to discharge to surface water. Groundwater can also be classified as GW-1 based upon potential to be used as drinking water supply, and as GW-2, based upon the potential for inhalation of vapors of oil or hazardous materials in indoor air.

The GW-1 /GW-2 groundwater classification evaluation for the Disposal Site is based upon a DEP GIS Site Scoring Map, and is shown in the following table. The DEP GIS Site Scoring Map is included for reference as Figure 5.

Table 2 - GW-1 / GW-2 Groundwater Classification Criteria

GW-1 Criteria	GW-1 Classification
1) within the Zone II for a public water supply	No
2) within an Interim Wellhead Protection Area	No
3) within a Potentially Productive Aquifer	No
4) within the Zone A of a Class A surface water body used as a public water supply	No
5) at any point located 500 or more feet from a public water supply distribution pipeline	No
6) at any groundwater sampling point located within 500 feet of a private water supply well	No
GW-2 Criteria	GW-2 Classification
1) Located within 30 feet of an occupied building and average annual depth to water is less than 15 feet	Yes

Groundwater was not encountered during excavation activities and was not sampled as part of this investigation. For the purposes of this Risk Characterization, groundwater at the Site is subject to the GW-2 Groundwater Classification. All groundwater at the Site is classified as GW-3, based upon its potential to discharge to surface water.

4.3 Method 1 Risk Characterization Standards

Using the groundwater and soil classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in groundwater and soil at the Site are listed in the MCP 310 CMR40.0974 and 40.0975, respectively.

4.3.1 Method 1 Risk Characterization - Soil

Using the groundwater and soil classifications derived above, Method 1 Risk Characterization threshold concentrations for compounds detected in soil at the Site are listed in the MCP 310 CMR 40.0975. The most stringent concentration from each soil and groundwater classification is considered to be the threshold under which a concentration of "No Significant Risk" exists.

EPH constituents were not detected in excess of the laboratory quantification limit of 30 mg/Kg in confirmatory soil samples S-101 through S-103. Laboratory quantification limits for the analyzed constituents are below the applicable Method 1 Risk Characterization Standards tabulated in 310 CMR 40.0975. Using the criteria presented above and laboratory analytical results, a condition of "No Significant Risk" is present for all current and future uses of soil at Site. Groundwater was not impacted by the release, therefore, groundwater was not considered in this Method 1 Risk Characterization.

4.4 Potential Receptors and Critical Exposure Pathways

The Site is located within the boundaries of a Massachusetts Department of Mental Retardation Facility. The Fernald Center is situated within a primarily residential area of Waltham, Massachusetts. Private residences and commercial properties surround the Site. No private water supply wells are located at residential properties within 500 feet of the Site.

Critical Exposure Pathways (CEP) are defined in 310 CMR 40.006 as those routes by which oil and/or hazardous material(s) release at a disposal site are transported, or are likely to be transported, to human receptors via:

- a) vapor-phase emissions or measurable concentrations of oil and/or hazardous materials into the living or working space of a pre-school, daycare, school or occupied residential dwelling, or;
- b) ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials from drinking water supply wells located at and servicing a pre-school, daycare, school, or occupied residential dwelling.

Impacted soils were encountered within 30 feet of an occupied residential facility. However, laboratory analysis of confirmatory soil samples indicated that concentrations of EPH were below the applicable Method 1 Risk Characterization standards and all petroleum impacted media had been removed from the disposal Site. No private water supply wells are located within 500 feet of the Site. These conditions thereby preclude the possibility of ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials via vapor phase emissions or water supply wells. Therefore, a CEP as defined in 310 CMR 40.006, has not been identified and is not considered likely at the Site.

4.5 Discussion

The Method 1 Risk Characterization, using the criteria presented above, demonstrates that a condition of "No Significant Risk" exists for current and future uses of the Site.

In addition, laboratory analysis of confirmatory soil samples collected subsequent to IRA excavation activities indicated no detectable concentrations of petroleum hydrocarbons. As such, pursuant to 310 CMR 40.1020, it is the opinion of Coneco that remedial actions have reduced concentrations of oil and/or hazardous materials to background conditions.

5.0 IMMEDIATE RESPONSE ACTION COMPLETION STATEMENT

Environmental conditions of the Site were evaluated in a manner consistent with guidelines presented in the "Massachusetts Contingency Plan" (310 CMR 40.0000). The focus of the

IRA is as follows: 1) further delineation of impacted materials and 2) the removal of petroleum-impacted materials.

Immediate Response Actions completed at the Site are summarized below:

- On January 7, 2002, immediately following the release, personnel of Dowling applied absorbent materials to the release area and recovered any residual product. Product and impacted absorbent materials were placed in two 55-gallon drums and transported under Uniform Hazardous Waste Manifest to the General Chemical facility in Framingham, Massachusetts for disposal on March 14, 2002.
- On January 17, 2002, Coneco personnel collected five surficial soil samples, designated S-01 through S-05, from the area located adjacent to the southern exterior wall of the generator room of the Thom Building. Samples were collected in order to evaluate the nature and extent of the release. Soil samples S-01 through S-03 were collected from points located directly adjacent to the exterior wall of the generator room. Soil samples S-04 and S-5 were collected from points located approximately 10 feet south of the release area to obtain initial baseline information prior to the removal of potentially petroleum-impacted media from the Site.
- On May 29, 2002, Coneco personnel conducted the hand excavation of surficial soils located adjacent to the generator room in order to remove petroleum-impacted media. Based on the results of initial delineation activities, Coneco personnel removed an approximately 16 square-foot section of asphalt and hand excavated impacted soil to a depth of approximately 14 inches below grade. As a result of excavation activities, approximately 0.65 cubic yards of petroleum-impacted media were removed and stored on-Site in two 55-gallon drums. The generated drums were removed from the Site on July 1, 2002 under Uniform Hazardous Waste Manifest and transported to the Northland Environmental facility in Providence, Rhode Island.
- Following the completion of excavation activities on May 29, 2002, Coneco personnel collected confirmatory soil samples from within the excavation area. Soil samples were collected from the base of the excavation at a depth of approximately 14 inches below grade. Three select soil samples, designated S-101 through S-103 and collected from points evenly distributed throughout the excavation area, were submitted for laboratory analysis of EPH by the MA DEP Method. As a result of EPH analyses no detectable concentrations of petroleum hydrocarbons were identified in the submitted confirmatory soil samples.

Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the Immediate Response Action are required. An Immediate Response Action Transmittal Form (BWSC-105) is included in Appendix 3.

6.0 RESPONSE ACTION OUTCOME

- A summary and conclusions of the Response Action are as follows:
- No uncontrolled sources of contamination are present at the Site. As a result, no additional response actions are necessary at the Site.
- EPH constituents were not detected in excess of the laboratory quantification limit of 30 mg/Kg in confirmatory soil samples S-101 through S-103. Laboratory quantification limits for the analyzed constituents are below the applicable Method 1 Risk Characterization Standards tabulated in 310 CMR 40.0975.
- A level of "No Significant Risk" for current and future uses exists at the Site and a Permanent Solution has been achieved. Remedial actions have reduced concentrations of oil and/or hazardous materials to background conditions
- Conditions for a Class A-1 RAO specified at 310 CMR 40.1035 and 310 CMR 40.1036 have been met at the Site.
- An RAO Transmittal Form (BWSC - 104) and copies of Municipal Notifications are included as Appendix 3.

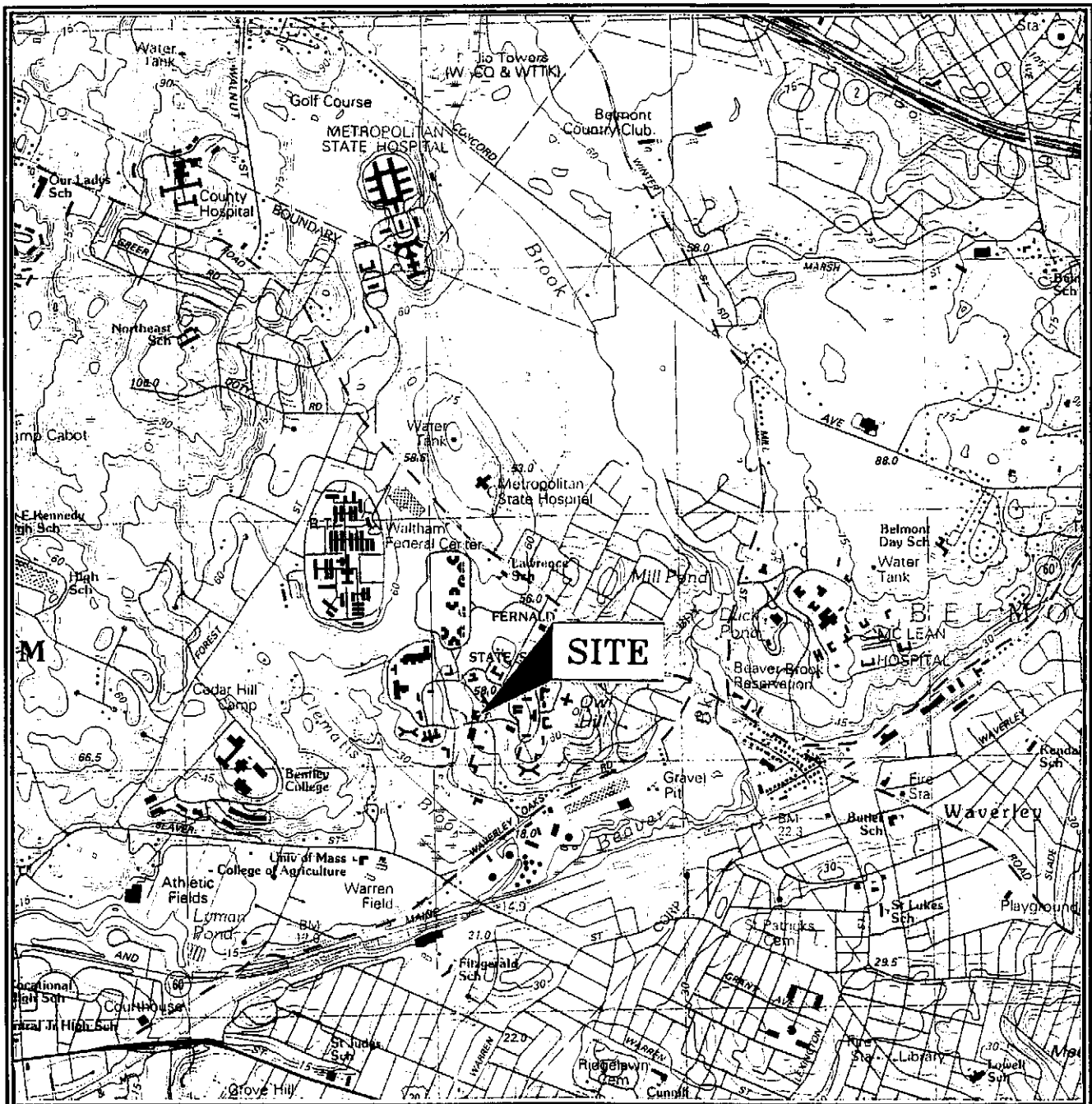
Based on the information presented herein, and subject to the limitations of the proposed Scope of Services, it is the opinion of Coneco that a condition of "No Significant Risk" to human health, safety, public welfare, and the environment exists at the Site.

Pursuant to 310 CMR 4.03, response actions conducted by State Agencies are exempt from the Response Action Outcome compliance fee as described in 310 CMR 40.0156(3).

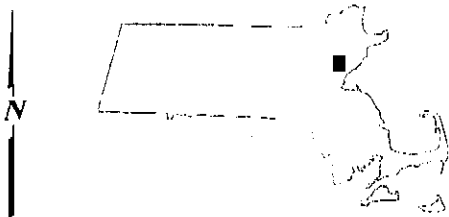
7.0 LIMITATIONS

The conclusions expressed by Coneco in this report are based solely on the references cited. Observations were made under the conditions stated. Information provided by federal, state, and local agencies contacted was relied upon as accurate and complete. This study was conducted to define the limits of petroleum-impacted media and reduce petroleum concentrations. This report represents Coneco's opinion relative to the referenced findings. Unless otherwise specified in the scope of work, Coneco accepts no responsibility for client performance of recommendations as may be offered in this report. No attempt was made to investigate Site owner or operator compliance with federal, state, or local laws and regulations in connection with Site usage.

Should additional information become available concerning this Site or neighboring properties, Coneco should be given the opportunity to review and modify the Site investigation findings, as necessary. With specific regard to subsurface explorations, data obtained from soil sampling may not be wholly representative of the nature and extent of subsurface conditions at locations other than the actual sample location. Variable conditions may only become evident upon further exploration. If variations become apparent in the future, it will be necessary to reevaluate the conclusions and recommendations offered in this report.



U.S.G.S. 1985
 Boston North, Massachusetts
 3 Meter Contours, Scale 1:25,000



Coordinates: 42° 23' 26" N 71° 12' 30" W
 UTM 4,695,300 N 318,200 E (Zone 19)

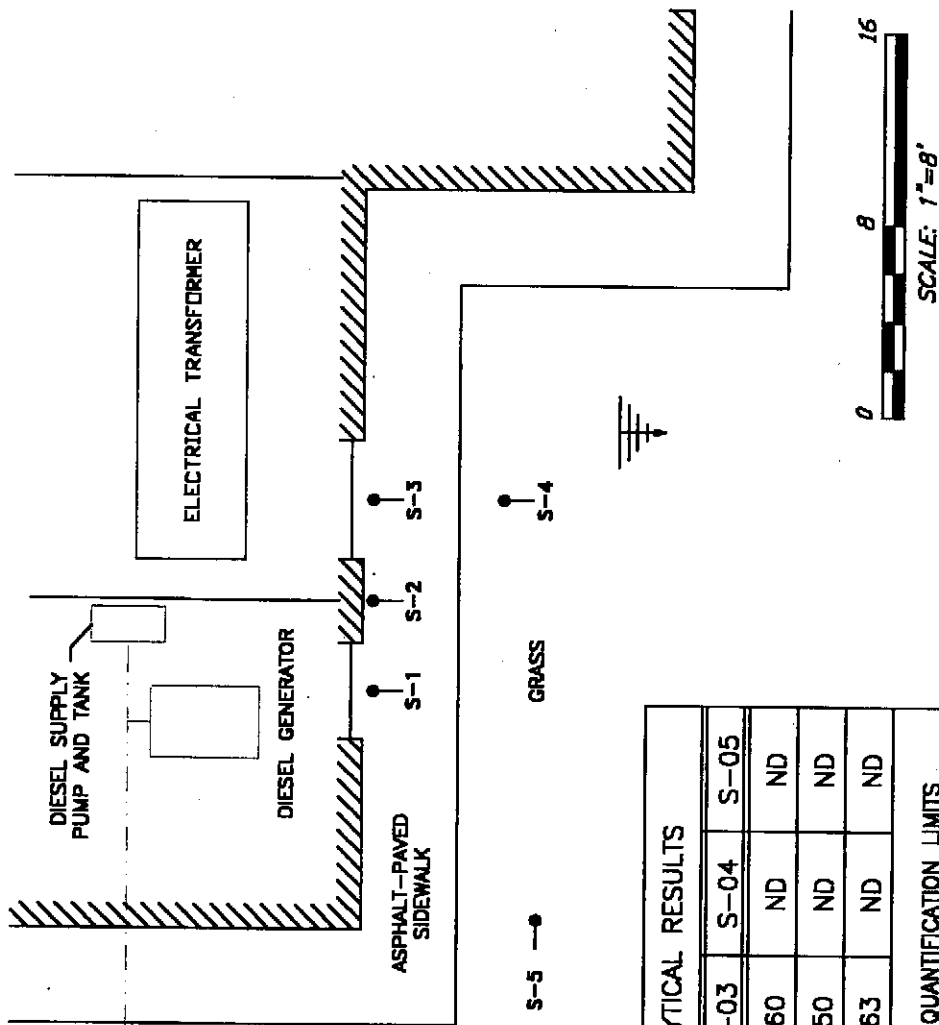
Coneco Engineers & Scientists

Site Locus Map

**Fernald Center, Thom Building
 200 Trapelo Road
 Waltham, Massachusetts
 RTN 3-21380**

FIGURE 1

THOM BUILDING






NOTE: THE LOCATIONS AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE AND BASED ON CONECO FIELD OBSERVATIONS.

INITIAL DELINEATION-EPH SOIL ANALYTICAL RESULTS					
ANALYTE	S-01	S-02	S-03	S-04	S-05
C9-C18 ALIPHATICS	2,900	11,000	160	ND	ND
C19-C36 ALIPHATICS	1,300	5,900	150	ND	ND
C11-C22 AROMATICS	2,838	9,965	163	ND	ND

NOTES: ALL RESULTS PROVIDED IN mg/Kg
 ND = NOT DETECTED ABOVE LABORATORY QUANTIFICATION LIMITS

LEGEND

-  DOWNSLOPE INDICATOR
-  SOIL SAMPLE LOCATION
-  UST SUPPLY LINE

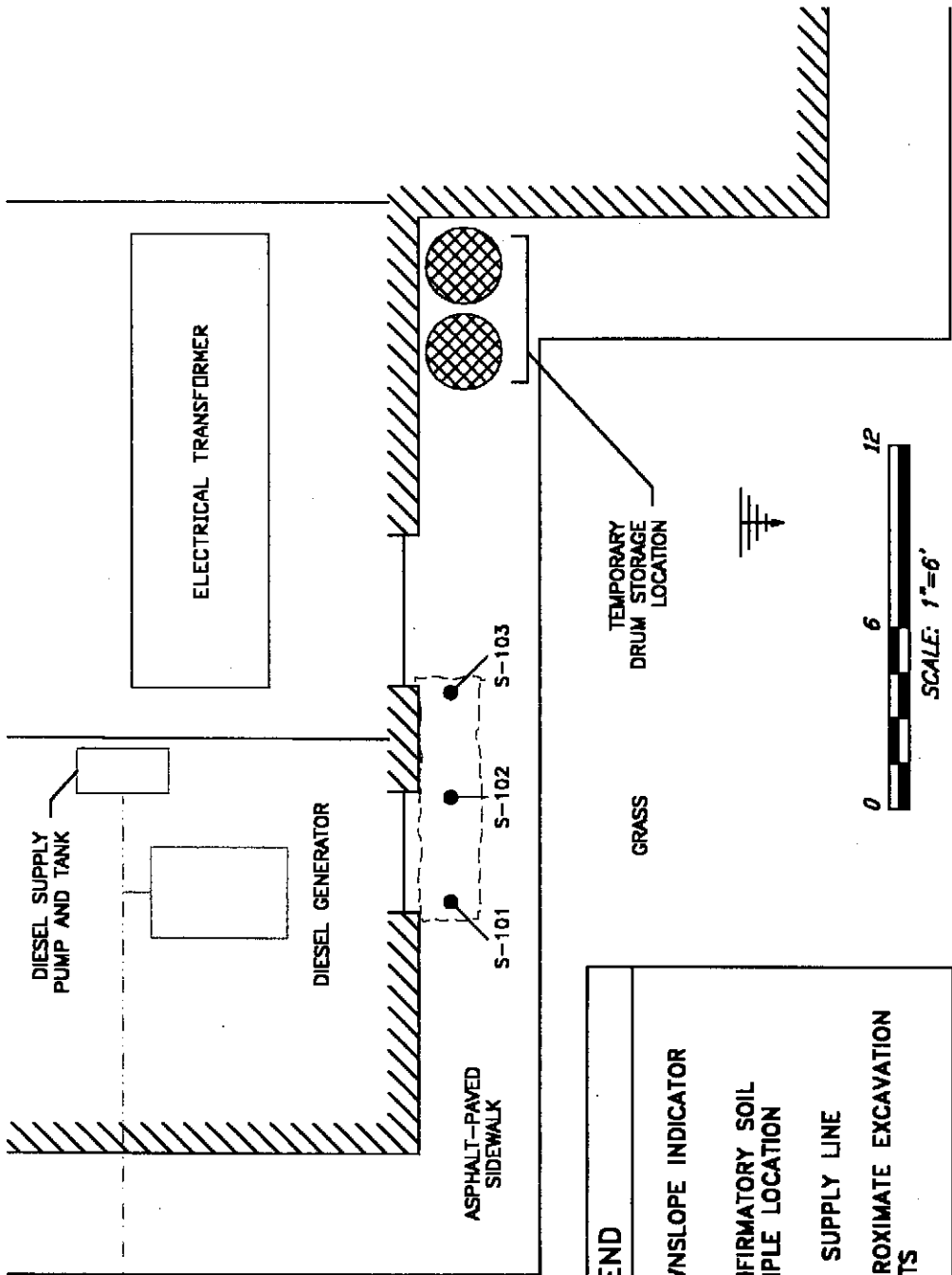
CONECO
 Engineers & Scientists

4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3191
 DRAWN: JSS 4/4/02
 CHECKED: BFK 4/5/02
 CAD FILE NO. 02/04/02/04/02/02

SITE PLAN

FERNALD CENTER, THOM BUILDING
 200 TRAPELO ROAD
 WALTHAM, MASSACHUSETTS
 RTN 3-21380

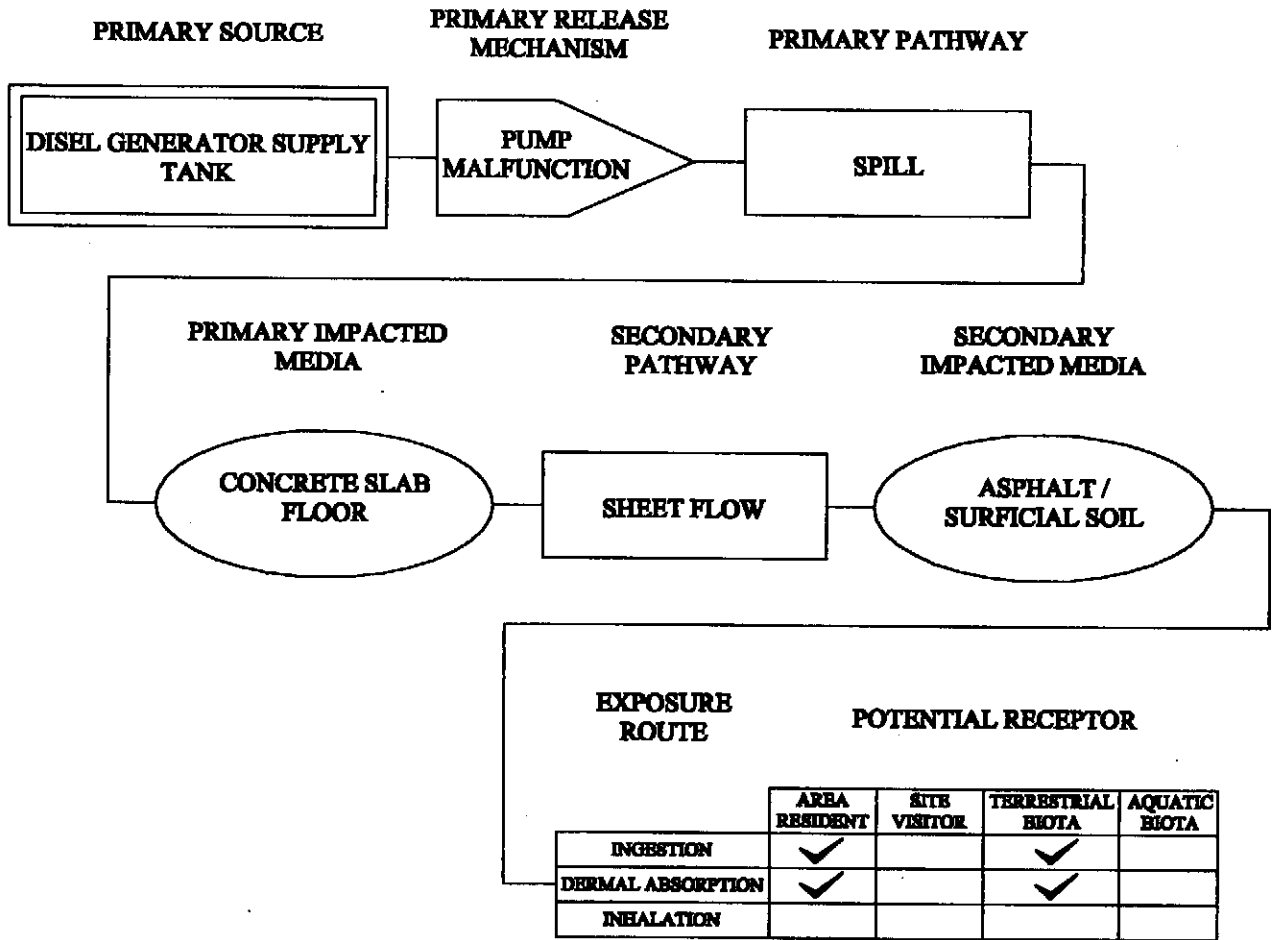
SCALE: AS NOTED
 PROJECT NO.: 4613.A
 DRAWING NUMBER: FIGURE 2



LEGEND	
	DOWNSLOPE INDICATOR
	CONFIRMATORY SOIL SAMPLE LOCATION
	UST SUPPLY LINE
	APPROXIMATE EXCAVATION LIMITS

NOTE: THE LOCATIONS AND DIMENSIONS OF SITE FEATURES ARE APPROXIMATE AND BASED ON CONECCO FIELD OBSERVATIONS.

 Engineers & Scientists		IRA EXCAVATION PLAN	
		FERNALD CENTER, THOM BUILDING 200 TRAPELO ROAD WALTHAM, MASSACHUSETTS RTN 3-21380	
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 687-3181	DRAWN JSS	CHECKED BFK	SCALE AS NOTED
BY DATE 6/24/02	CAD FILE NO. 04/0600007/0001.000	PROJECT NO. 4513.A	DRAWING NUMBER FIGURE 3



CONCEPTUAL SITE MODEL

FERNALD CENTER, THOM BUILDING
 200 TRAPELO ROAD
 WALTHAM, MASSACHUSETTS
 RELEASE TRACKING NUMBER 3-21380

SCALE	PROJECT NO.	DRAWING NUMBER
N / A	4513.A	FIGURE 4

CONECO
Engineers & Scientists

4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 897-3191

	DRAWN	CHECKED	CAD FILE NO.
BY	JSS	BFK	
DATE	6/24/02	6/25/02	

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

Thom Building
Fernald Center
200 Trapelo Road
WALTHAM, MA 02452
4695289n 318224ew



Site Location

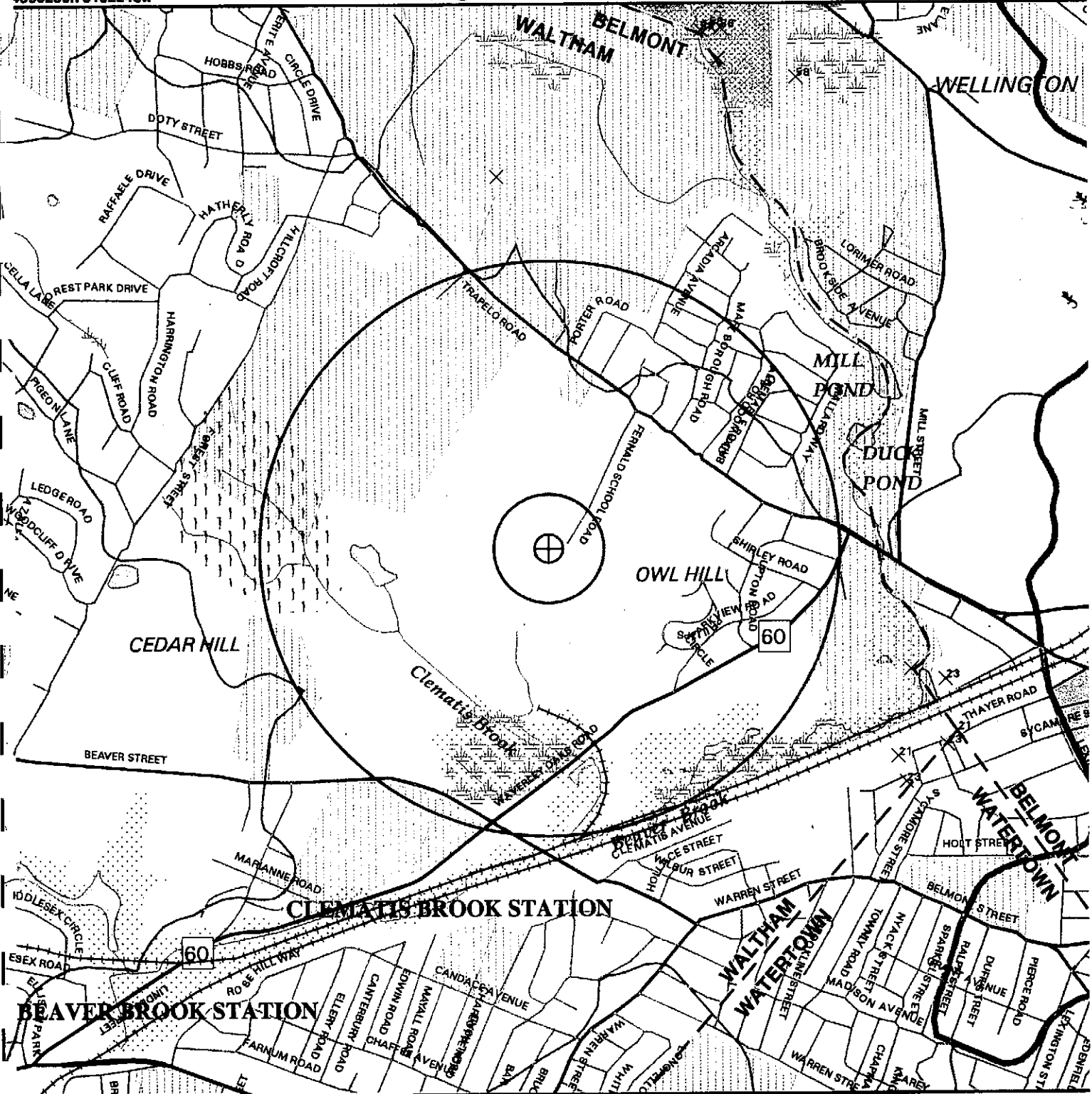
The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Massachusetts
Geographic
Information
System

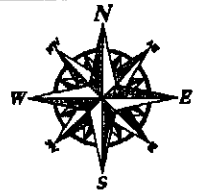


Massachusetts Executive Office of Environmental Affairs - 2002

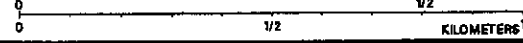


- Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail
- Boundaries: Town, County, DEP Region; Train; Powerlines; Pipeline; Aqueduct
- Beams: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams
- Potentially Productive Aquifers: Medium, High Yield
- Non-Potential Drinking Water Source Area: Medium, High Yield

- EPA Sole Source Aquifer; FEMA 100-year floodplain
- Public Water Supplies: Ground, Surface, Non Community
- Approved Zone 2; MWPA; Surface Water Supply Zone A
- Hydrography: Water Features, Public Surface Water Supply
- Wetlands: Fresh, Salt, NHESP Wetlands Habitat
- Protected Open Space; ACEC
- DEP Permitted Solid Waste Facilities; Certified Vernal Pools



SCALE 1:15000



June 25, 2002



D. H.

RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 21380

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

A. SITE OR DOWNGRADIANT PROPERTY LOCATION:

Site Name: (optional) _____

Street: Fernald Center, 200 Trapelo Road Location Aid: Thom Building

City/Town: Waltham ZIP Code: 02452-6302

Check here if this Site location is Tier Classified. If a Tier I Permit has been issued, state the Permit Number: _____

Related Release Tracking Numbers that this Form Addresses: _____

If submitting an RAO Statement, you must document the location of the Site or the location and boundaries of the Disposal Site subject to this Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site. If submitting a Downgradient Property Status Submittal, you must provide a site plan of the property subject to the submittal and, to the extent defined, the Disposal Site.

B. THIS FORM IS BEING USED TO: (check all that apply)

Submit a Response Action Outcome (RAO) Statement (complete Sections A, B, C, D, E, F, H, I, J and L).

Check here if this is a revised RAO Statement. Date of Prior Submittal: _____

Check here if any Response Actions remain to be taken to address conditions associated with any of the Releases whose Release Tracking Numbers are listed above. This RAO Statement will record only an RAO-Partial Statement for those Release Tracking Numbers.

Specify Affected Release Tracking Numbers: _____

Submit an optional Phase I Completion Statement supporting an RAO Statement or Downgradient Property Status Submittal (complete Sections A, B, H, I, J, and L).

Submit a Downgradient Property Status Submittal (complete Sections A, B, G, H, I, J and K).

Check here if this is a revised Downgradient Property Status Submittal. Date of Prior Submittal: _____

Submit a Termination of a Downgradient Property Status Submittal (complete Sections A, B, I, J and L).

Submit a Periodic Review Opinion evaluating the status of a Temporary Solution (complete Sections A, B, H, I, J and L).

Specify one: For a Class C RAO For a Waiver Completion Statement indicating a Temporary Solution

Provide Submittal Date of RAO Statement or Waiver Completion Statement: _____

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

RECEIVED

JUL 16 2002

DEP

NORTHEAST REGIONAL OFFICE

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

Assessment and/or Monitoring Only

Removal of Contaminated Soils

Re-use, Recycling or Treatment

On Site Off Site

Describe: Diesel-impacted soil

Landfill Cover Disposal Est. Vol.: _____ cubic yards

Removal of Drums, Tanks or Containers

Describe: _____

Removal of Other Contaminated Media

Specify Type and Volume: Absorbent Mat./Product, 2 drums

Other Response Actions

Describe: _____

Deployment of Absorbant or Contaminant Materials

Temporary Covers or Caps

Bioremediation

Soil Vapor Extraction

Structure Venting System

Product or NAPL Recovery

Groundwater Treatment Systems

Air Sparging

Temporary Water Supplies

Temporary Evacuation or Relocation of Residents

Fencing and Sign Posting

SECTION C IS CONTINUED ON THE NEXT PAGE.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADE PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 21380

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

C. DESCRIPTION OF RESPONSE ACTIONS: (continued)

Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

Describe
Technologies:

D. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste was sent to an off-site facility, answer the following questions)

Name of Facility: General Chemical / Northland Environmental
Town and State: Framingham, Massachusetts / Providence, Rhode Island
Quantity of Remediation Waste Transported to Date: (2) 55-gal drums / (2) 55-gal drums

E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select ONLY one Class:

- Class A-1 RAO: Specify one of the following:
 - Contamination has been reduced to background levels.
 - A Threat of Release has been eliminated.
- Class A-2 RAO: You MUST provide justification that reducing contamination to background levels is infeasible.
- Class A-3 RAO: You MUST provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.
If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: _____
- Class B-1 RAO: Specify one of the following:
 - Contamination is consistent with background levels
 - Contamination is NOT consistent with background levels.
- Class B-2 RAO: You MUST provide an implemented AUL.
If applicable, provide the AUL expiration date: _____
- Class C RAO: Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.
Specify One: Passive Operation and Maintenance Monitoring Only
 Active Operation and Maintenance (defined at 310 CMR 40.0006)

F. RESPONSE ACTION OUTCOME INFORMATION:

If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.

Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

Notice of Activity and Use Limitation Grant of Environmental Restriction Number of AULs attached: _____

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.
Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

Risk Characterization Method(s) Used:	<input checked="" type="checkbox"/> Method 1	<input type="checkbox"/> Method 2	<input type="checkbox"/> Method 3
Soil Category(ies) Applicable:	<input checked="" type="checkbox"/> S-1	<input checked="" type="checkbox"/> S-2	<input type="checkbox"/> S-3
Groundwater Category(ies) Applicable:	<input type="checkbox"/> GW-1	<input checked="" type="checkbox"/> GW-2	<input checked="" type="checkbox"/> GW-3

> When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do NOT specify a Risk Characterization Method.

> When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is NOT consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 21380

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

G. DOWNGRADIANT PROPERTY STATUS SUBMITTAL:

- If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.
- Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.

Release Tracking
Number(s): _____

Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: Brian F. Klingler LSP #: 8493 Stamp: _____

Telephone: 508-697-3191 Ext.: _____

FAX: (optional) 508-697-5996

Signature:

Date: 7-1-02



I. PERSON MAKING SUBMITTAL:

Name of Organization: Joanne Ciardello

Name of Contact: MA Dept. of Mental Retardation Title: Director of Operations

Street: 200 Trapelo Road

City/Town: Waltham State: MA ZIP Code: 02452-6302

Telephone: 781-894-3600 Ext.: 2104 FAX: (optional) _____

J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: (check one)

RP or PRP Specify: Owner Operator Generator Transporter Other RP or PRP: _____

Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

Any Other Person Submitting This Form Specify _____
Relationship: _____



**RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADE PROPERTY STATUS TRANSMITTAL FORM**

Release Tracking
Number

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

3 - 21380

K. CERTIFICATION OF PERSON SUBMITTING DOWNGRADE PROPERTY STATUS SUBMITTAL:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: _____
(signature)

For _____ Date: _____
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____
City/Town: _____ State _____ ZIP Code: _____
Telephone: _____ Ext. _____ FAX: (optional) _____

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, Joanne Ciardello, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Joanne Ciardello Title: Director of Operations
(signature)

For MA Dept. of Mental Retardation Date: July 1, 2002
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____
City/Town: _____ State _____ ZIP Code: _____
Telephone: _____ Ext. _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

SITE PHOTOGRAPHS

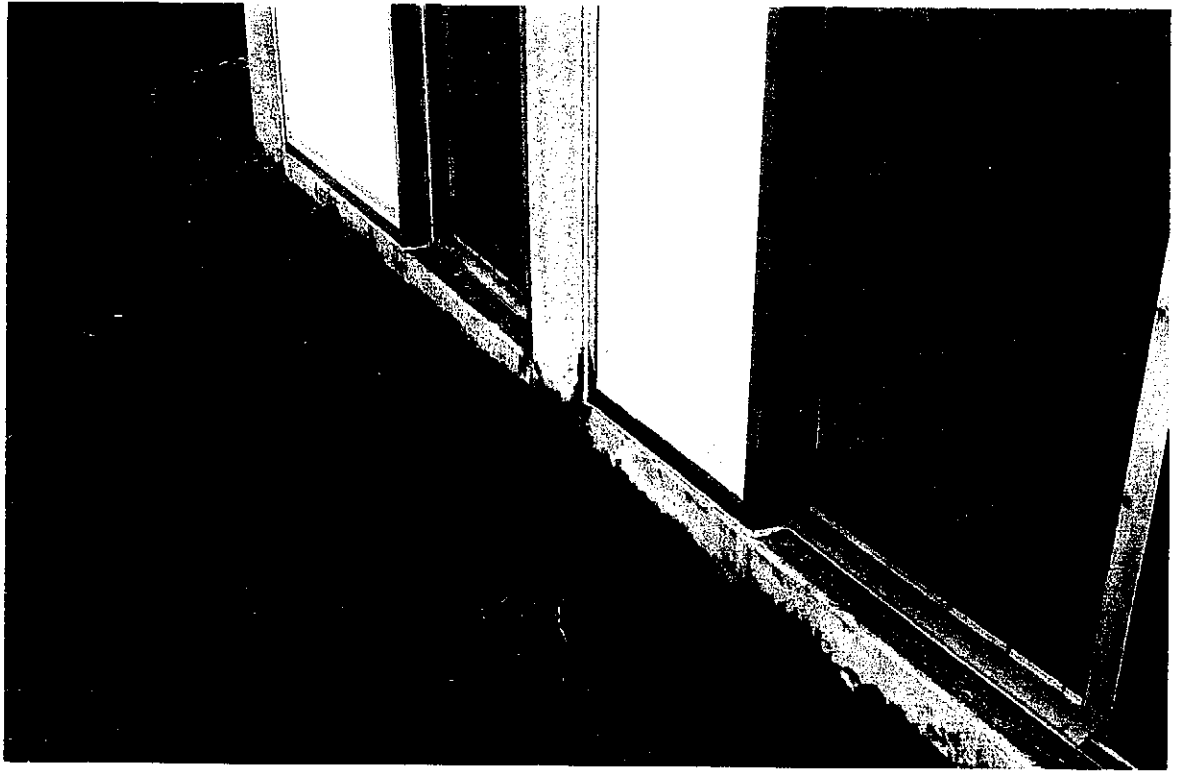


Photo 1. Site conditions following emergency response activities.



Photo 2. IRA Excavation area.



Photo 3. Site conditions following IRA Excavation activities.



Photo 4. View of the Site from the east at the completion of IRA excavation activities.

SITE-SPECIFIC HEALTH AND SAFETY PLAN

**CONECO ENGINEERS AND SCIENTISTS
SITE HEALTH & SAFETY PLAN**

DATE: April 5, 2002

PREPARER'S SIGNATURE: _____



A. SITE DESCRIPTION: FERNALD CENTER, THOM BUILDING

LOCATION: 200 Trapelo Road

CROSS STREETS: Marlborough Road

SITE USAGE: Residential / School Facility

PAST SITE USAGE: Same

SURROUNDING AREA:

 Virgin Land X Residential X Parkland/School

 X Commercial/Retail Industrial Other:

ENTRY OBJECTIVES:

 X Visual/Surficial Test Pits/Identify Contaminated Soil

 Test Borings/Observation Wells X Monitor Tank/Soil Removal

 X Sampling Soil/Water Other:

ONSITE CONTROL:

An exclusion zone will be designated on site as the area within a 10-foot radius of the area of work interest. The Project Manager is responsible for physically delineating this zone with flagging, hazard cones, etc. Entry into the exclusion zone by individuals other than those listed in Section F of this document is prohibited without authorization from the Health/Safety Officer or the Group Supervisor.

B. HAZARD EVALUATION

The following substance(s) are known or suspected to be on the site or within the immediate site vicinity:

Substance	Anticipated Concentration	Media
Petroleum	Unknown	Soil

Note: Material Safety Data Sheets for the above referenced compounds are attached.

C. PERSONNEL PROTECTIVE EQUIPMENT

Based on an evaluation of the anticipated potential hazards, a personal protection level of _____ C, X D, or _____ Other (check one) has been designated for all personnel working in the exclusion zone.

Personnel must always be equipped to upgrade to level C if necessary. Down grading of the specified level of protection will not be made without authorization from the Health/Safety Officer and the Group Supervisor listed in Section F of this document.

Specific protection equipment and clothing materials are as follows (check as necessary):

1. RESPIRATORY PROTECTION: _____ Full Face
(MSHA/NIOSH Approved) (50 X P.E.L. or cartridge limits)

X (C) Half Face
(10 X P.E.L. or cartridge limits)

CARTRIDGE TYPE: X (C) Organic Vapor

X (C) Dust/Mist/Fume

_____ Other

2. COVERALLS: X (C) Standard TYVEK
_____ Polylaminated TYVEK
_____ Saran TYVEK
_____ Other

3. GLOVES: X Inner PVC

X (C) Outer Neoprene - Latex

_____ Other

4. BOOTS: X Rubber, Steel Toe
 Disposable Outer
5. HARD HAT X
6. EYE PROTECTION X
7. EAR PROTECTION X
8. OTHER (specify) X

D. ENVIRONMENTAL / PERSONNEL MONITORING

Air monitoring will generally be conducted by the Coneco Site personnel. Each designated operator will be properly trained in the use of the monitoring equipment. The results of all air monitoring will be recorded and used as the basis for specifying personnel protective equipment and determining the need to upgrade/downgrade protective measures. Work activities at the Site will be shut down if monitoring values exceed those specified below for Level C. Monitoring procedures and action levels are as follows:

HNU HW-101	< 5 Units above Background	Repeat monitoring at 30-minute intervals; Discontinue when readings remain at or below background for 1 hour	a
	5-25 Units above Background	Use half-mask respirator; Ventilate area; Monitor at 15-minute intervals; Discontinue when readings remain at or below background for 1 hour	a,b
	> 25 Units above Background	Stop Work; Contact supervisor and H&S Officer; Ventilate area	a,b
Notes:	a. Use appropriate lamp and calibrate unit. b. Air-purifying respirators must be used only when use criteria are met and with appropriate cartridges.		

E. DECONTAMINATION PROCEDURES

All personnel will refer to the Coneco Environmental Corporation Standard Operating Procedures Manual for DE-CON, unless otherwise specified or attached to this plan.

F. COMMUNICATION AND EMERGENCY PROCEDURES

The following items should be located and discussed with all field personnel prior to the initial entry of the exclusion zone or before work begins.

- 1) Coneco Health/Safety Plan
- 2) Personal protection equipment
- 3) On-site client contact
- 4) Location of nearest telephone
- 5) Emergency method of equipment shutdown
- 6) Hand signals

In the event of an emergency, development of hazardous site conditions, or significant changes in the work plan, communication will be established as soon as is practicable with the Group Supervisor and the on-site client contact.

EMERGENCY SERVICES ARE SERVICES ARE AVAILABLE AS FOLLOWS:

AGENCY	TELEPHONE
Police	911
Fire	911
Ambulance	911
Public Works Dept.	781-314-3800
DigSafe	1-800-322-4844
ChemTrec	1-800-424-9300
DEP HOTLINE	1-800-424-8802

CONTACT	TELEPHONE
Principal: Brian F Klingler L.S.P.	(508) 697-3191 ext. 103 (508) 962-6277 (mobile)
Health and Safety Officer: Amy A. Willoughby	(508) 697-3191 ext. 105 (508) 962-7423 (mobile)

NOTE: A FIRST AID KIT IS AVAILABLE FROM THE PROJECT MANAGER

Deaconess-Waltham Hospital is the nearest Hospital to the Site. It is located at 9 Hope Avenue in Waltham with telephone number (781) 647-6000. From the Site, turn right onto Trapelo Road and continue for approximately 0.4 miles. Turn right onto Waverly Oaks Road (MA Route 60) and continue for approximately 1.75 miles. Merge Right onto Main Street (MA Route 20) and continue for approximately 1.10 miles. Turn left onto Prospect Street and continue for approximately 0.3 miles the turn right onto Sharon. Deaconess-Waltham Hospital is approximately straight ahead across the intersection of Sharon and Hope Street.

SEE ATTACHED MAP FOR HOSPITAL ROUTES

G. PLAN LIMITATIONS & ACKNOWLEDGMENT

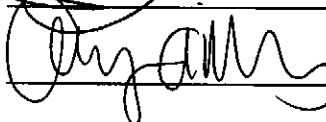
The preceding Site Health and Safety Plan has been prepared pursuant to 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response. It is not intended to cover any other OSHA General Industry Standards. It has also been prepared for the protection of Coneco's personnel and as preliminary information for use by Coneco's subcontractors and other individuals involved in site environmental activities associated with the stated Entry Objectives. Coneco's subcontractors and other involved individuals not employed by Coneco are responsible for their own safety while on the Site. Coneco will not be responsible for providing personal protection equipment for individuals other than Coneco personnel. Coneco will not be responsible or held liable for personal injury resulting from the direct actions, negligence, or lack of approved health and safety training on the part of individuals other than Coneco personnel.

ALL SITE PERSONNEL HAVE READ THE ABOVE PLAN AND ARE FAMILIAR WITH ITS PROVISIONS.
(Please sign in the appropriate space below)


Group Supervisor



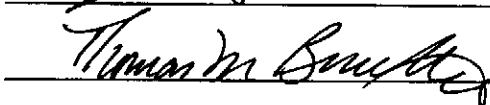
Health/Safety Officer



Project Manager



Other Site Personnel



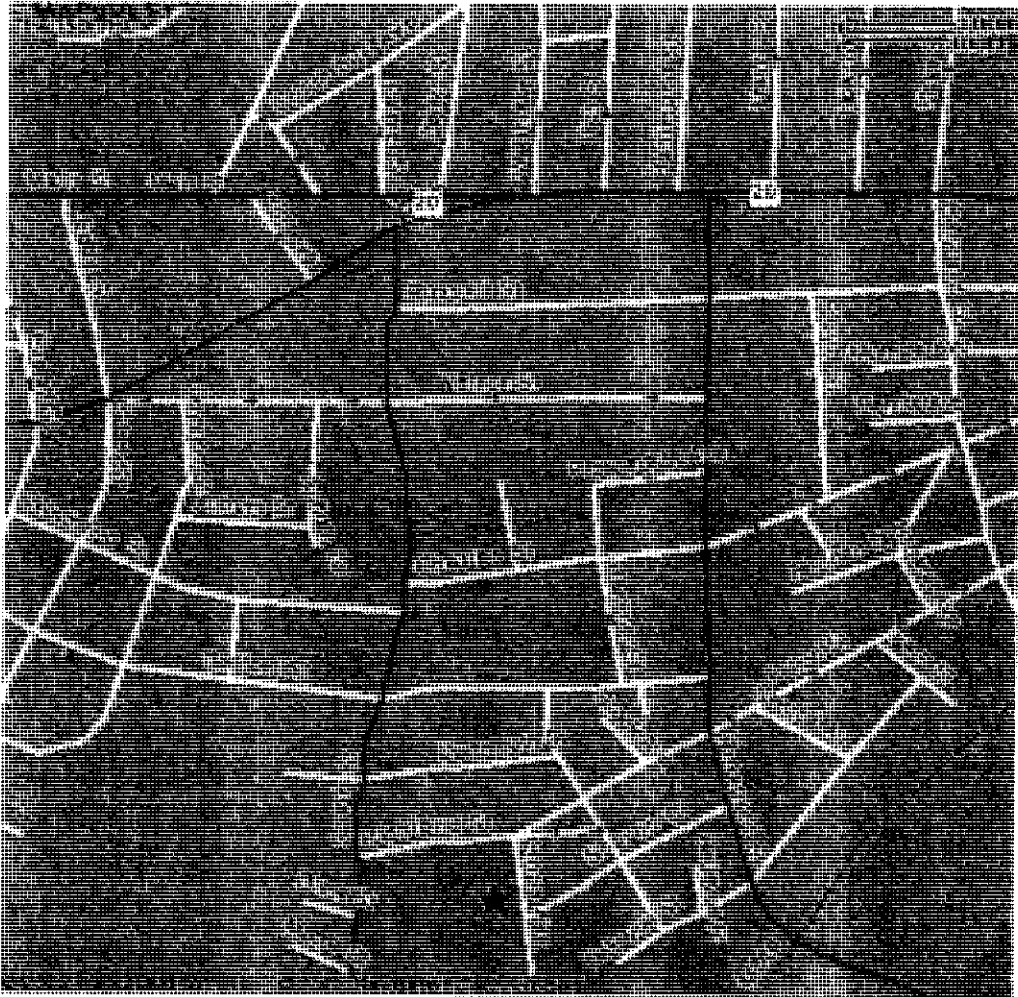
Welcome!

MAPQUEST.

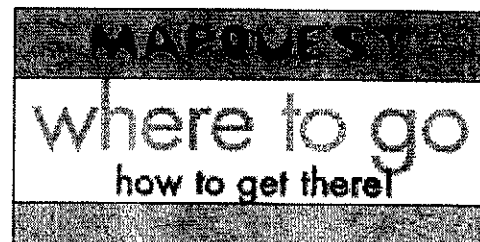
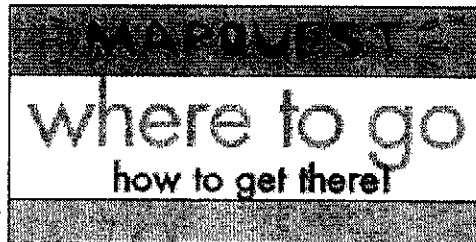
Deaconess-Waltham Hospital
9 Hope Ave
Waltham, MA
02453-2711, US

SEND TO PRINTER

[Back](#)



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**COPY OF RELEASE NOTIFICATION FORM (BWSC-103)
IMMEDIATE RESPONSE ACTION TRANSMITTAL FORM (BWSC-105)
RESPONSE ACTION OUTCOME TRANSMITTAL FORM (BWSC - 104)
COPIES OF MUNICIPAL NOTIFICATIONS**



COPY

Release Tracking Number

3 - 21380

If assigned by DEP

RELEASE NOTIFICATION & NOTIFICATION RETRACTION FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart 4)

A. RELEASE OR THREAT OF RELEASE LOCATION:

Street: Fernald Center, 200 Trapelo Road Location Aid: Thom Building

City/Town: Waltham ZIP Code: 02454-6302

B. THIS FORM IS BEING USED (check one)

TO:

Submit a **Release Notification** (complete all sections of this form).

Submit a **Retraction of a Previously Reported Notification** of a Release or Threat of Release (complete Sections A, B, E, F and G of this form). You **MUST** attach the supporting documentation required by 310 CMR 40.0335.

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

Date and time you obtained knowledge of the Release or TOR. 01/07/02 Time: 12:15 Specify: AM PM

The date you obtained knowledge is always required. The time you obtained knowledge is not required if reporting only 120 Day Conditions.

IF KNOWN, record date and time release or TOR occurred. 01/07/02 Time: 12:00 Specify: AM PM

Check here if you previously provided an Oral Notification to DEP (2 Hour and 72 Hour Reporting Conditions only).

Provide date and time of Oral Notification. 01/07/02 Time: 12:30 Specify: AM PM

Check all Notification Thresholds that apply to the Release or Threat of Release: (for more information see 310 CMR 40.0310 - 40.0315)

2 HOUR REPORTING CONDITIONS

72 HOUR REPORTING CONDITIONS

120 DAY REPORTING CONDITIONS

Sudden Release

Threat of Sudden Release

Oil Sheen on Surface Water

Poses Imminent Hazard

Could Pose Imminent Hazard

Release Detected in Private Well

Release to Storm Drain

Sanitary Sewer Release (Imminent Hazard Only)

Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch

Underground Storage Tank (UST) Release

Threat of UST Release

Release to Groundwater near Water Supply

Release to Groundwater near School or Residence

Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)

Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards

Release of Oil to Groundwater Exceeding Reportable Concentration(s)

Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch

List below the Oils or Hazardous Materials that exceed their Reportable Concentration or Reportable Quantity by the greatest amount. If necessary, attach a list of additional Oil and Hazardous Material substances subject to reporting.

Name and Quantities of Oils (O) and Hazardous Materials (HM) Released:

O or HM Released	O HM (check one)	CAS # (if known)	Amount or Concentration	Units	Reportable Concentrations Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)
No. 2 Fuel Oil	<input checked="" type="checkbox"/> <input type="checkbox"/>		>10	Gallons	
	<input type="checkbox"/> <input type="checkbox"/>				
	<input type="checkbox"/> <input type="checkbox"/>				

D. ADDITIONAL INVOLVED PARTIES:

Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

Check here if attaching Licensed Site Professional (LSP) name and address (optional).

You may write in names and addresses on the bottom of the second page of this form.



**IMMEDIATE RESPONSE ACTION (IRA)
TRANSMITTAL FORM**

Release Tracking
Number

3 - 21380

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart 40.0428)

A. RELEASE OR THREAT OF RELEASE LOCATION:

Release Name:
(optional)

Street: Fernald Center, 200 Trapelo Road Location Aid: Thom Building

City/Town: Waltham ZIP Code: 02452-6302

- Check here if a Tier Classification Submittal has been provided to DEP for this Release Tracking Number.
- Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114.
- Specify Program: CERCLA HSWA Corrective Action Solid Waste Management RCRA State Program (21C Facilities)

Related Release Tracking Numbers That This IRA
Addresses: _____

B. THIS FORM IS BEING USED TO: (check all that apply)

- Submit an IRA Plan (complete Sections A, B, C, D, E, H, I, J and K).
- Check here if this IRA Plan is an update or modification of a previously approved written IRA Plan Submitted:
- Submit an Imminent Hazard Evaluation (complete Sections A, B, C, F, H, I, J and K).
- Submit an IRA Status Report (complete Sections A, B, C, E, H, I, J and K).
- Submit a Request to Terminate an Active Remedial System and/or Terminate a Continuing Response Action(s) Taken to Address an Imminent Hazard (complete Sections A, B, C, D, E, H, I, J and K).
- Submit an IRA Completion Statement (complete Sections A, B, C, D, E, G, H, I, J and K).

RECEIVED

JUL 16 2002

**DEP
NORTHEAST REGIONAL OFFICE**

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT

- IRA: Identify Media and Receptors Affected: (check all that apply)
- Air Groundwater Surface Water Sediments Soil
 - Wetland Storm Drain Paved Surface Private Well Public Water Supply Zone 2 Residence
 - School Unknown Other Specify _____

- Identify Conditions That Require IRA, Pursuant to 310 CMR 40.0412: (check all that apply)
- 72 Hour Reporting Condition(s) Substantial Release Migration 2 Hour Reporting Condition(s) Other Condition(s)

Describe Sudden release of approximately 12 gallons of diesel fuel

- Identify Oils and Hazardous Materials Released: (check all that apply)
- Oils Chlorinated Solvents Heavy Metals
 - Others Specify: Diesel fuel

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

- Assessment and/or Monitoring Only
- Excavation of Contaminated Soils
 - Re-use, Recycling or Treatment
 - On Site Off Site Est. Vol.: 1 cubic yards
 - Describe Diesel-impacted soil
 - Store On Site Off Site Est. Vol.: _____ cubic yards
 - Landfill Cover Disposal Est. Vol.: _____ cubic yards
- Removal of Drums, Tanks or Containers
 - Describe _____
- Deployment of Absorbent or Containment Materials
- Temporary Covers or Caps
- Bioremediation
- Soil Vapor Extraction
- Structure Venting System
- Product or NAPL Recovery
- Groundwater Treatment Systems
- Air Sparging
- Temporary Water Supplies

SECTION D IS CONTINUED ON THE NEXT PAGE.



IMMEDIATE RESPONSE ACTION (IRA)
TRANSMITTAL FORM

Release Tracking
Number

3 - 21380

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart
D)

D. DESCRIPTION OF RESPONSE ACTIONS (continued):

- Removal of Other Contaminated Media
 - Specify Type and Volume: Absorbent Mat / Product 2 Drums
- Temporary Evacuation or Relocation of Residents
- Other Response Actions Describe _____
- Fencing and Sign Posting
- Check here if this IRA involves the use of Innovative Technologies (DEP is interested in using this information to aid in creating an Innovative Technologies Clearinghouse).
Describe Technologies: _____

E. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste has been sent to an off-site facility, answer the following questions)

Name of Facility: General Chemical / Northland Environmental
 Town and State: Framingham, Massachusetts / Providence, Rhode Island
 Quantity of Remediation Waste Transported to Date: (2) 55-gal. drums / (2) 55-gal. drums

F. IMMINENT HAZARD EVALUATION SUMMARY: (check one of the following)

- Based upon an evaluation, an Imminent Hazard exists in connection with this Release or Threat of Release.
- Based upon an evaluation, an Imminent Hazard does not exist in connection with this Release or Threat of Release.
- Based upon an evaluation, it is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
- Based upon an evaluation, it is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.

G. IRA COMPLETION STATEMENT:

- Check here if future response actions addressing this Release or Threat of Release will be conducted as part of the Response Actions planned for a Site that has already been Tier Classified under a different Release Tracking Number, or a Site that is identified on the Transition List as described in 310 CMR 40.0600 (i. e., a Transition Site, which includes Sites with approved Waivers). These additional response actions must occur according to the deadlines applicable to the earlier Release Tracking Number (i. e., Site ID Number).

State Release Tracking Number (i. e., Site ID Number) of Tier Classified Site or Transition Site: _____

If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement, you must submit either a Release Abatement Measure (RAM) Plan or a Phase IV Remedy Implementation Plan, along with the appropriate transmittal form, as an attachment to the IRA Completion Statement.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an Immediate Response Action Plan is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an Imminent Hazard Evaluation is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation complies(y) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an Immediate Response Status Report is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an Immediate Response Action Completion Statement or a Request to Terminate an Active Remedial System and/or Terminate a Continuing Response Action(s) Taken to Address an Imminent Hazard is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

SECTION H IS CONTINUED ON THE NEXT PAGE.



IMMEDIATE RESPONSE ACTION (IRA)
TRANSMITTAL FORM

Release Tracking
Number


Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

3 - 21380

H. LSP Opinion (continued):

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: Brian F. Klingler LSP #: 8493 Stamp:
Telephone: 508-697-3191 Ext.: _____
FAX: (optional) 508-697-5996
Signature: 
Date: 7-1-02



I. PERSON UNDERTAKING IRA:


Name of Organization: Massachusetts Department of Mental Retardation
Name of Contact: Joanne Ciardello Title: Director of Operations
Street: 200 Trapelo Road
City/Town: Waltham State: MA ZIP Code: 02452-6302
Telephone: 781-894-3600 Ext.: 2104 FAX: (optional) _____
 Check here if there has been a change in the person undertaking the IRA.

J. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA: (check one)

RP or PRP Specify Owner Operator Generator Transporter Other RP or PRP: _____
 Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
 Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
 Any Other Person Undertaking IRA Specify Relationship: _____

K. CERTIFICATION OF PERSON UNDERTAKING IRA:

I, Joanne Ciardello, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By:  Title: Director of Operations
(signature)
For MA Department of Mental Retardation Date: July 1, 2002
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:
Street: _____
City/Town: _____ State: _____ ZIP Code: _____
Telephone: _____ Ext.: _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PERMITTING

July 9, 2002
Project No. 4613.A

The Honorable Mayor David F. Gately
City of Waltham Mayor's Office
City Hall Second Floor
610 Main Street
Waltham, Massachusetts 02452

RE: **Public Involvement Notification**
Massachusetts Department of Mental Retardation Fernald Center
Thom Building
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21380

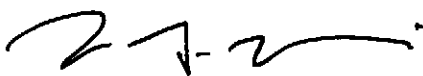
Dear Mayor Gately:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of the identification of a release of approximately 12 gallons of diesel fuel at the Thom Building of the Massachusetts Department of Mental Retardation Fernald Center in Waltham, Massachusetts. This letter follows notification to the Department of Environmental Protection - Northeast Regional Office (NERO) on January 7, 2002 and the submittal of a Response Action Outcome (RAO) Statement on July 9, 2002. The Site has been assigned Release Tracking Number (RTN) 3-21380. Copies of the RAO Statement are available for review at the DEP-NERO.


Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the above described release are required.

If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists



Jedd S. Steinglass
Project Manager



Brian F. Klingler, P.G., L.S.P.
Principal Geologist

JSS:BFK:jd
jss-4613.A.notification.mayor.doc



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PERMITTING

July 9, 2002
Project No. 4613.A

Mr. Walter Sweder
Director
City of Waltham Health Department
119 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Massachusetts Department of Mental Retardation Fernald Center
Thom Building
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21380

Dear Director Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of the identification of a release of approximately 12 gallons of diesel fuel at the Thom Building of the Massachusetts Department of Mental Retardation Fernald Center in Waltham, Massachusetts. This letter follows notification to the Department of Environmental Protection - Northeast Regional Office (NERO) on January 7, 2002 and the submittal of a Response Action Outcome (RAO) Statement on July 9, 2002. The Site has been assigned Release Tracking Number (RTN) 3-21380. Copies of the RAO Statement are available for review at the DEP-NERO.

Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the above described release are required.

If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists

A handwritten signature in black ink, appearing to read 'J S Steinglass', is written over the typed name.

Jedd S. Steinglass
Project Manager

A handwritten signature in black ink, appearing to read 'Brian F. Klingler', is written over the typed name.

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

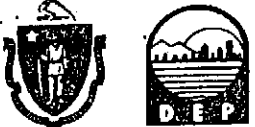
JSS:BFK:jd
jss-4613.A.notification.mayor.doc

UNIFORM HAZARDOUS WASTE MANIFESTS

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

GCC FILE # 22585

73-8783

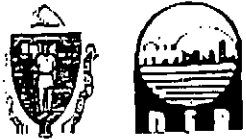


Please print or type. (Form designed for use on elite (12-pitch) typewriter)

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP7818943600		Manifest Document No. 7209V		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address COMMONWEALTH OF MASSACHUSETTS-DMR 160 NORTH WASHINGTON ST. BOSTON MA. 02114 4. Generator's Phone () 781-894-3600						A. State Manifest Document Number MA Q 072091			
5. Transporter 1 Company Name CLEAN VENTURE INC.				6. US EPA ID Number NJ0000027193		B. State Gen. ID 00 TRAPELO RD. WALTHAM, MA			
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Trans. ID 46513 MA			
9. Designated Facility Name and Site Address GENERAL CHEMICAL CORPORATION 133 LELAND STREET FRAMINGHAM MA 01702						10. US EPA ID Number MA0019571079		D. Transporter's Phone ()	
						E. State Trans. ID 908-355-5800		F. Transporter's Phone ()	
						G. State Facility's ID NOT REQUIRED		H. Facility's Phone () 508-872-5000	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	Type	13. Total Quantity	14. WASTE NO.
a. STATE REGULATED WASTE OIL (Non DOT/RCRA Regulated per 40/49 CFR)						001 DM	000355 G		MA01
b. STATE REGULATED OILY SOLIDS (Non DOT/RCRA Regulated per 40/49 CFR)						001 DM	010200 P		MA01
c.									
d.									
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)						K. Handling Codes for Wastes Listed Above			
WATER AND DIESEL a.(0001)			c.			a.	S | 0 | 2	c.	
SOIL W/ DIESEL b.(0002)			d.			b.	S | 0 | 1	d.	
15. Special Handling Instructions and Additional Information GENERAL CHEMICAL (508)872-5000									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
JOANNE CIARDULLO				Joanne Ciardullo As Agent				Date 03/14/02	
Printed/Typed Name				Signature				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials									
DANA CALLAHAN				Dana Callahan				Date 03/14/02	
Printed/Typed Name				Signature				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials									
								Date	
Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19									
R Swartz				R Swartz				Date 03/10/02	
Printed/Typed Name				Signature				Month Day Year	

Form Approved DMB No. 2050-0039.
EPA Form 8700-22 (Rev. 9-95) Previous editions are obsolete.



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

A-365

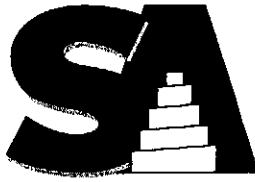
Please print or type. (Form designed for use on either typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. MP7818943600		Manifest Document No. 746295		Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address STATE OF MA D.M.R. 500 HARRISON AVE BOSTON MA 02110				A. State Manifest Document Number MAQ 246295		B. State Gen ID MA DMR FERRIS CENTER THOM BLDG 200 TRAPEZOID RD WALTHAM		C. State Trans ID	
4. Generator's Phone () 617-724-7886		5. Transporter 1 Company Name WESTERN OIL, INC.		6. US EPA ID Number RI R00050002		7. RI 19235		D. Transporter's Phone () 401-727-8600	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address NORTHLAND ENVIRONMENTAL, INC. 275 ALLENS AVENUE PROVIDENCE, RI 02905		10. US EPA ID Number RT D040098352		E. State Trans ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type		13. Total Quantity		14. Vol Wt		15. Waste No	
a. HA REGULATED OILY SOLIDS NONE NONE		002 DM		00600		P		NONE	
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.) a. PROFILE				K. Handling Codes for Wastes Listed Above a. S101					
15. Special Handling Instructions and Additional Information EMERGENCY CONTACTS 617-524-7886									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name JOHANNIE CIRIELLO				Signature <i>Johannie CirIELLO</i>				Date Month Day Year 07 10 02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name SEAN CATHERS				Signature <i>Sean Cathers</i>				Date Month Day Year 07 10 02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Date Month Day Year	
19. Discrepancy Indication Space HA SECTION I SHOULD BE MAQ1									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								Date Month Day Year	
Printed/Typed Name JAL				Signature <i>JAL</i>				Date Month Day Year	

7/10/2002 11:03 AM

MAQ 246295 COPY 5: TRANSPORTER 1 RETAINS

**ORIGINAL LABORATORY DATA, LABORATORY QA/QC, METHODS,
CHAIN-OF-CUSTODY FORMS**



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Attn: Jedd Steinglass

Client Project Number: 4613.A

Location: Waltham, MA

Thursday, January 24, 2002

Report Status:

- Final Report
 Re-issued Report
 Revised Report



<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC93620	S-1	EPH Aliphatics/Aromatics Ultrasonic Extraction % Solids
AC93621	S-2	EPH Aliphatics/Aromatics Ultrasonic Extraction % Solids
AC93622	S-3	EPH Aliphatics/Aromatics Ultrasonic Extraction % Solids
AC93623	S-4	EPH Aliphatics/Aromatics Ultrasonic Extraction % Solids
AC93624	S-5	EPH Aliphatics/Aromatics Ultrasonic Extraction % Solids



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: 4613.A

Location: Waltham, MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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

Authorized by:

Hanibal C. Vayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Waltham, MA
Client: CONECO
Lab ID No: AC93620
Client Id: S-1

Client Project No: 4613.A
Submittal Date: 1/22/02
Collection Date: 1/17/02
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/23/02	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	2,900	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	1,300	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	2,838	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	2,867	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/23/02	MSL	MA EPH 98-1
% Solids	92.8	%		1/23/02	RT	SM2540 B Mod

Lab ID No: AC93621

Client Id: S-2

Collection Date: 1/17/02

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/23/02	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	11,000	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	5,900	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	9,965	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	10,073	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/23/02	MSL	MA EPH 98-1
% Solids	85.5	%		1/23/02	RT	SM2540 B Mod

Lab ID No: AC93622
Client Id: S-3

Collection Date: 1/17/02
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/23/02	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	160	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	150	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	163	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	165	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/23/02	MSL	MA EPH 98-1
% Solids	91.4	%		1/23/02	RT	SM2540 B Mod

Lab ID No: AC93623

Client Id: S-4

Collection Date: 1/17/02

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/23/02	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	1/23/02	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	1/23/02	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	50	1/23/02	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	50	1/23/02	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/23/02	MSL	MA EPH 98-1
% Solids	83.2	%		1/23/02	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			1/23/02	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	1/23/02	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	1/23/02	MSL	MA EPH 98-1
% Solids	81.7	%		1/23/02	RT	SM2540 B Mod

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Broken	<input type="checkbox"/> Leaking		
Aqueous Preservative	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> pH < 2	<input type="checkbox"/> pH > 2	<input type="checkbox"/> pH adjusted to <= 2 in lab	Comment:
Temperature	<input type="checkbox"/> Received on ice	<input checked="" type="checkbox"/> Received cold	<input type="checkbox"/> Received ambient	<input checked="" type="checkbox"/> Recorded temperature: 20°C	

Were all QA/QC procedures followed as required by the EPH method? Yes No

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

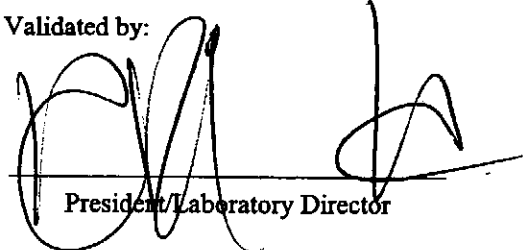
* Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest 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.

Reviewed by:


Quality Service/Quality Assurance Depts.

Validated by:


President/Laboratory Director

1/24/02



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.
Feeding
HANDAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: 1/24/02
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

0100211237
[Signature]

Report To: VEDD STEINGLASS
CONELB
4 FIRST ST.
B2/DIEMETER, MA

Invoice To: Spence
 P.O. No.: _____
 R.O.N.: _____

Project No.: 4613.A
 Site Name: FERRIS CENTER, THOM BLDG.
 Location: WALHAM State: MA
 Sampler(s): JSS/TNB

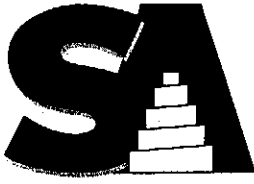
1=Na₂S₂O₃, 2=HCl, 3=H₂SO₄, 4=HNO₃, 5=NaOH, 6=Ascorbic Acid
 7=CH₃OH, 8=NaHSO₄, 9=_____, 10=_____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____, X2=_____, X3=_____
 G=Grab C=Composite

Containers: _____ Analyses: _____ Notes: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
09100	S-1	1/17/02	3pm	G	SO	NP	1	1	1	1
093001	S-2						1	1	1	1
093002	S-3						1	1	1	1
093003	S-4						1	1	1	1
093004	S-5						1	1	1	1
AC										
AC										
AC										
AC										

Relinquished by: [Signature] Received by: [Signature]
 Date: 1/22/02 Time: 1147
 Date: 1/24/02 Time: 1550

Fax results when available to (508) 697-5996
 E-mail results when available to _____
 Condition upon Receipt: Iced Ambient 2 °C
REFRIG.



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

Coneco
4 First Street
Bridgewater, MA 02324

Attn: Jedd Steinglass

Client Project Number: 4613.A

Wednesday, June 12, 2002

Report Status:

- Final Report
- Re-issued Report
- Revised Report



Location: Fernald Center-Waltham, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD18442	S-101	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD18443	S-102	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids
AD18444	S-103	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes % Solids



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 4613.A

Location: Fernald Center-Waltham, MA

Laboratory ID

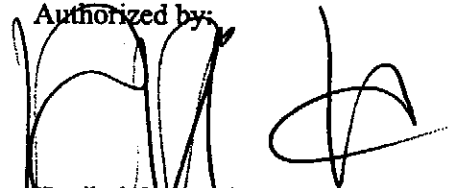
Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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

Authorized by:



Hanibal C. Waych, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fernald Center-Waltham, MA

Client: CONECO

Lab ID No: AD18442

Client Id: S-101

Client Project No: 4613.A

Submittal Date: 5/31/2002

Collection Date: 5/29/2002

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			6/5/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	6/11/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	59	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	72	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	84	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	83	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
% Solids	90.7	%		6/5/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			6/5/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	6/11/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	54	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	58	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	85	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
% Solids	90.1	%		6/5/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			6/5/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
<i>EPH Aliphatics/Aromatics</i>						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	6/11/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	6/11/2002	MSL	MA EPH 98-1
<i>EPH Target PAH Analytes</i>						
Naphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	170	6/11/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	67	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	72	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	81	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	89	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	6/11/2002	MSL	MA EPH 98-1
% Solids	90	%		6/5/2002	RT	SM2540 B Mod

Parameter Results Units PQL Start Date Analyst Method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH<2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to <2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 10°C

Were all QA/QC procedures followed as required by the EPH method? Yes No

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes * see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No

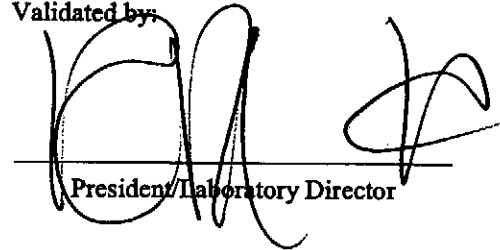
* Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest 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.

Reviewed by:


Quality Service/Quality Assurance Depts.

Validated by:


President/Laboratory Director

6/12/2002



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.
 Padering
 HANDBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling: 06031257E
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: VEDD SENEKALAS
CONELLO
4 FIRST ST
BUILDING 2, MA 02324
 Project Mgr.: DS

Invoice To: Same
 P.O. No.: _____
 R.O.N.: 0060000

Project No.: 4613.A
 Site Name: Thom Building, Fenway Center
 Location: Waltham State: MA
 Sampler(s): DS

1=Na₂SO₄ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=_____
 10=_____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=____ X2=____ X3=____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers	Analyses	Notes
AC	S-101	5/24/02	11 AM	G	SO	N/A	1						
AC	S-102	5/29/02	11 AM	G	SO	N/A	1						
AC	S-103	5/29/02	11 AM	G	SO	N/A	1						
AC													
AC													
AC													
AC													
AC													
AC													
AC													

Relinquished by:	Received by:	Date:	Time:
<u>[Signature]</u>	<u>[Signature]</u>	<u>5-31-02</u>	<u>11:49 AM</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>5/31/02</u>	<u>16:35</u>

Fax results when available to () _____
 E-mail results when available to VENED.SENEKALAS@SPECTRUMANALYTICAL.COM
 Condition upon Receipt: Iced Ambient 1 °C

EXHIBIT C-12

RTN 3-0015121, Fernald School

Site Information			
Site Number:	3-0015121	Category:	TWO HR
Site Name:	FERNALD SCHOOL	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	7/11/1997
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	
Official notification date:	5/20/1997	Location type:	SCHOOL, STATE
Initial status date:	5/20/1998	Source:	VEHICLE

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	7/11/1997
RAO class:	A2
Activity & Use Limitation:	NONE

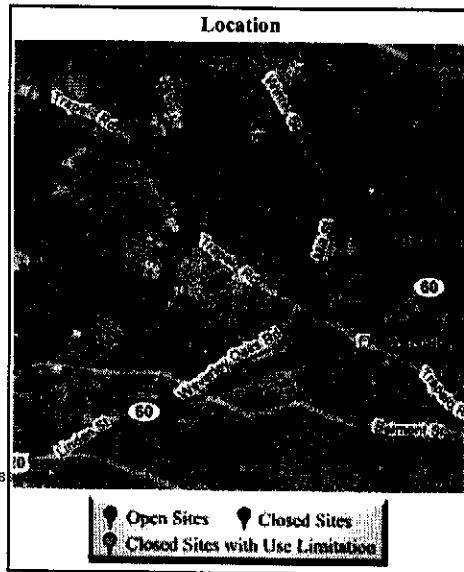
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	5/20/1997
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	APORAL - Oral Approval of Plan or Action
Submittal Date:	5/20/1997
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
GASOLINE	40	GAL

LSPs	
LSP#	Name
9092	OBRIEN, JAMES B

RAO Detail			
Class	Method	GW Category	Soil Category
A2	1	2	1
A2	1	2	1



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RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

3 - 15-121

Handwritten initials

A. SITE OR DOWNGRADIANT PROPERTY LOCATION:

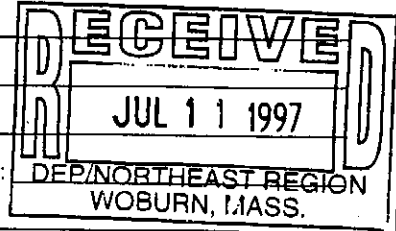
Site Name: (optional) Fernald State School

Street: 200 Trapelo Road

Location Aid: _____

City/Town: Waltham

ZIP Code: 02154



Check here if this Site location is Tier Classified. If a Tier I Permit has been issued, state the Permit Number: _____

Related Release Tracking Numbers that this Form Addresses: _____

If submitting an RAO Statement, you must document the location of the Site or the location and boundaries of the Disposal Site subject to this Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site. If submitting a Downgradient Property Status Submittal, you must provide a site plan of the property subject to the submittal and, to the extent defined, the Disposal Site.

B. THIS FORM IS BEING USED TO: (check all that apply)

Submit a Response Action Outcome (RAO) Statement (complete Sections A, B, C, D, E, F, H, I, J and L).

Check here if this is a revised RAO Statement. Date of Prior Submittal: _____

Check here if any Response Actions remain to be taken to address conditions associated with any of the Releases whose Release Tracking Numbers are listed above. This RAO Statement will record only an RAO-Partial Statement for those Release Tracking Numbers.

Specify Affected Release Tracking Numbers: _____

Submit an optional Phase I Completion Statement supporting an RAO Statement or Downgradient Property Status Submittal (complete Sections A, B, H, I, J, and L).

Submit a Downgradient Property Status Submittal (complete Sections A, B, G, H, I, J and K).

Check here if this is a revised Downgradient Property Status Submittal. Date of Prior Submittal: _____

Submit a Termination of a Downgradient Property Status Submittal (complete Sections A, B, I, J and L).

Submit a Periodic Review Opinion evaluating the status of a Temporary Solution (complete Sections A, B, H, I, J and L).

Specify one: For a Class C RAO For a Waiver Completion Statement indicating a Temporary Solution

Provide Submittal Date of RAO Statement or Waiver Completion Statement: _____

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

Assessment and/or Monitoring Only

Removal of Contaminated Soils

Re-use, Recycling or Treatment

On Site Off Site Est. Vol.: _____ cubic yards

Describe: _____

Landfill Cover Disposal Est. Vol.: _____ cubic yards

Removal of Drums, Tanks or Containers

Describe: (2) 55-gallon drums containing absorb. material

Removal of Other Contaminated Media

Specify Type and Volume: (15) gallons of gas + water

from impacted puddle (contained in Vac-Truck)

Other Response Actions

Describe: _____

Deployment of Absorbant or Contaminant Materials

Temporary Covers or Caps

Bioremediation

Soil Vapor Extraction

Structure Venting System

Product or NAPL Recovery

Groundwater Treatment Systems

Air Sparging

Temporary Water Supplies

Temporary Evacuation or Relocation of Residents

Fencing and Sign Posting

SECTION C IS CONTINUED ON THE NEXT PAGE.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADE PROPERTY STATUS TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

3 - 15121

C. DESCRIPTION OF RESPONSE ACTIONS: (continued)

Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

Describe Technologies: _____

D. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste was sent to an off-site facility, answer the following questions)

Name of Facility: Northland Environmental, Inc. / ZECCO, Inc.

Town and State: Providence, RI / Northboro, MA

Quantity of Remediation Waste Transported to Date: (2) 55-gal drums / (15) gallons water + gas

E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select ONLY one Class:

Class A-1 RAO: Specify one of the following:

- Contamination has been reduced to background levels. A Threat of Release has been eliminated.

Class A-2 RAO: You MUST provide justification that reducing contamination to background levels is infeasible.

Class A-3 RAO: You MUST provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.

If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: _____

Class B-1 RAO: Specify one of the following:

- Contamination is consistent with background levels Contamination is NOT consistent with background levels.

Class B-2 RAO: You MUST provide an implemented AUL.

If applicable, provide the AUL expiration date: _____

Class C RAO: Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.

Specify One: Passive Operation and Maintenance Monitoring Only

Active Operation and Maintenance (defined at 310 CMR 40.0006)

F. RESPONSE ACTION OUTCOME INFORMATION:

If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.

Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

- Notice of Activity and Use Limitation Grant of Environmental Restriction Number of AULs attached: _____

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.

Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

Risk Characterization Method(s) Used: Method 1 Method 2 Method 3

Soil Category(ies) Applicable: S-1 S-2 S-3

Groundwater Category(ies) Applicable: GW-1 GW-2 GW-3

> When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do NOT specify a Risk Characterization Method.

> When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is NOT consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

3 - 15121

G. DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.

Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.

Release Tracking Number(s): (3-15149), (3-10725), (3-13467)

Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CM. 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief.

> if Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

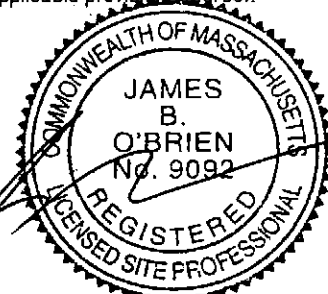
LSP Name: James B. O'Brien LSP #: 9092 Stamp:

Telephone: (617) 335-6361 Ext.:

FAX: (optional) (617) 335-3543

Signature: [Handwritten Signature]

Date: 7-1-97



I. PERSON MAKING SUBMITTAL:

Name of Organization: Massachusetts Department of Mental Retardation

Name of Contact: Mr. George Atamian Title:

Street: 160 North Washington Street

City/Town: Boston State: MA ZIP Code: 02114

Telephone: (617) 727-5608 Ext.: 388 FAX: (optional)

J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: (check one)

RP or PRP Specify: Owner Operator Generator Transporter Other RP or PRP:

Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

Any Other Person Submitting This Form Specify Relationship:



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM
Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

3 - 15121

K. CERTIFICATION OF PERSON SUBMITTING DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. The person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: _____
(signature)

For: _____ Date: _____
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____
City/Town: _____ State: _____ ZIP Code: _____
Telephone: _____ Ext.: _____ FAX (optional): _____

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, George Atamian, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. The person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: George Atamian Title: DIRECTOR OF ENDF.
(signature)

For: GEORGE ATAMIAN Date: 7-3-97
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: 160 No. WASHINGTON ST
City/Town: BOSTON State: MA ZIP Code: 02114
Telephone: 617 624 7888 Ext.: _____ FAX (optional): 617 727 9863

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

DEP
NORTHEAST REGIONAL OFFICE

97 JUL 11 PM 2:34

RECEIVED

Response Action Outcome (RAO) Statement

Massachusetts Department of Mental Retardation

Walter E. Fernald School – (Immediate Response Action)

200 Trapelo Road

Waltham, Massachusetts

MADEP RTN: 3-15121

VERTEX Project No. 0442

A-2
NA C

VERTEX

Prepared for:

Massachusetts Department of
Environmental Protection,
Northeast Regional Office
10 Commerce Way
Woburn, MA 01801

June 30, 1997

RESPONSE ACTION OUTCOME (RAO) STATEMENT

**Fernald School
200 Trapelo Road
Waltham, Massachusetts
MADEP RTN: 3-15121
VERTEX Project No. 0442**

1.0 INTRODUCTION

This Class A-2 Response Action Outcome (RAO) Statement has been prepared by Vertex Engineering Services, Inc. (VERTEX) to document a condition of "No Significant Risk" which has been achieved at a release site (DEP RTN#3-15121), at a property referenced as 200 Trapelo Road in Waltham, Massachusetts. This RAO is being submitted to the Massachusetts Department of Environmental Protection (MADEP) as required by the Massachusetts Contingency Plan (MCP) in response to the above referenced release.

This release was the result of a spill of gasoline from a thirty five (35) gallon fuel tank of a passenger van owned by MDMR. The tank was punctured when the driver backed into a broken light stanchion. The driver, not aware of the leak, proceeded to drive over paved roads to three different on-campus stops, releasing gasoline along the way. The total amount of fuel released is estimated at less than 35 gallons, assuming the tank was filled to capacity at the time of the incident.

An Emergency Response was conducted by Keystone Environmental Services, Inc. of 77 Accord Park Drive Norwell, Massachusetts (Keystone), whose personnel were already on campus performing unrelated work. The Emergency Response Actions were directed by Mr. Paul Giddings of the MADEP who issued a Notice of Responsibility (NOR) to MDMR. Response actions included the use of "speedy dry", absorbent booms and pads. Impacted water within puddles was remediated by a Vacuum truck.

Vertex Engineering Services, Inc. (VERTEX) was contracted by MDMR to conduct Licensed Site Professional Services (LSP) at the site. Keystone, Maurice O'Connell and Lt. Galdin of the Waltham Fire Department (all of which were on-site during the Emergency Response Actions) were interviewed by VERTEX as part of an initial investigation. According to them and an inspection of the site by VERTEX, the majority of release areas are paved with asphalt which would have prevented contact with soil and groundwater. Only two unpaved areas were known to have been impacted by the release. These areas were identified as the grassy area around the original point of contact with the light stanchion, and another grassy area at the edge of the parking lot adjacent to the on-campus Shriver Building.

VERTEX obtained surficial soil samples from these areas to assess any remaining gasoline contamination. Samples were analyzed for Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) as well as Methyl Tert Butyl Ether (MTBE).

In accordance with the MCP, a risk characterization has been performed which documents that a condition of "No Significant Risk" has been achieved at the site. This RAO documents site activities, investigations, analytical results and the Method 1 Risk characterization as required by 310 CMR 40.1056. Specifically, this RAO includes the following sections:

- 1.0 Introduction
- 2.0 RAO Category
- 3.0 General Disposal Site Information
- 4.0 Environmental Remediation Activities
- 5.0 Risk Characterization
- 6.0 Feasibility of Restoration To Background
- 7.0 Conclusions
- 8.0 Qualifications

2.0 RESPONSE ACTION OUTCOME (RAO) CATEGORY

The category of this RAO was determined in accordance with 310 CMR 40.1036. Class A-2 is appropriate to this site for the following reasons:

- 1) A Permanent Solution has been achieved.
- 2) Levels of oil/and or hazardous materials (OHM) at the site have not been reduced to background levels.
- 3) One or more Activity and Use Limitations are not required to maintain a level of No Significant Risk.

3.0 GENERAL DISPOSAL SITE INFORMATION

The site is located on the campus of the Walter E. Fernald School, 200 Trapelo Road, Waltham, Massachusetts. It is improved with several buildings used for administration, educational and residential purposes. The campus is also comprised of asphalt roads and parking areas as well as landscaped and grassy locations. Specifically, the areas affected by this release are the paved parking areas associated with the on-site buildings known as "The Fernald Workshops", "Shriver Building" and "The Redemption Center" as well as the asphalt paved roads which connect them. Please reference Figure-2 Site schematic. The location of the site is shown on the Boston North, Massachusetts USGS Topographic Quadrangle, dated 1985. Please refer to Attachment A, Figure 1 - Site Locus Map.

In general, the site slopes to the south toward Waverly Oaks Road. The site and surrounding properties are serviced by municipal water. The site is not located within a Current or Potential Drinking Water Source Area or within a Potentially Productive Aquifer.

This RAO addresses RTN #3-15121, which applies to a release site, comprised of paved and unpaved parking areas located on the campus. The release site is shown on Figure 2.

4.0 ENVIRONMENTAL REMEDIATION ACTIVITIES

According to Kevin Stetson, Operations Manager of Keystone, on May 20, 1997, at approximately 5:00 p.m., a release of no more than 35 gallons of gasoline occurred at the Walter E. Fernald School campus located at 200 Trapelo Road Waltham, Massachusetts. The release resulted when a school owned passenger vehicle backed into a light station and ruptured the on-board 35 gallon gasoline fuel tank (see Appendix A "Photographic Documentation"). Approximately 3-4 gallons leaked onto a paved area and a grassy area where the light station occurs. Not aware the tank was leaking, the driver continued along a paved road to the on-campus Shriver Building. The van was then parked and released another 5-10 gallons onto the paved parking area. Still unaware of the leak, the driver continued along a paved road to the on-campus Redemption Building where the van was again parked and released another 10-12 gallons of gasoline onto the paved parking area. The parking area had previously accumulated rainwater into a puddle of dimensions 4 feet by 15 feet. A sheen was reported on the puddle. In addition, a trail of gasoline staining was observed to be on the asphalt roads between the three major release points, with no indication of an impact to soil, groundwater or catch basins.

After the leak was discovered, the hole in the gas tank was plugged by MDMR personnel. It is estimated that no more than 35 gallons of gasoline was released as described above.

According to Lt. Galdin of the Waltham Fire Department, some residual gasoline was washed across the parking lot at the Shriver Building and onto the soils near a dumpster. This was believed to be done by facility employees.

Lt. Galdin from the city of Waltham Fire Department; Kevin Stetson, Adam Doyle and Lewis Mills of Keystone; Paul Giedding of the MADEP; and Paul Birmingham, Director of Campus Safety for the MDMR, were reportedly on site by 6:00 p.m. and remained for the entire Emergency Response Action. At that time, the MADEP issued a Notice of Responsibility (NOR) to MDMR and assigned Release Tracking Number 3-15121 to the site.

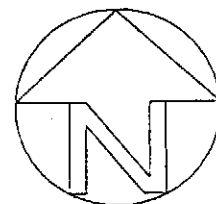
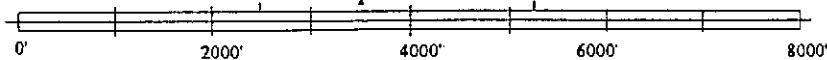


USGS Topographic Map, 1985

Boston North, Quadrangle

Contour Interval: 10 feet

1/2 mi. Graphic Scale 1 mi.



SITE LOCUS MAP

Walter E. Fernald School
200 Trapelo Road
Waltham, MA

SCALE: AS SHOWN

June 27, 1997

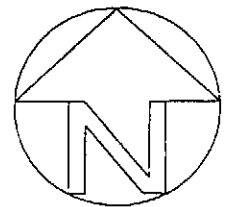
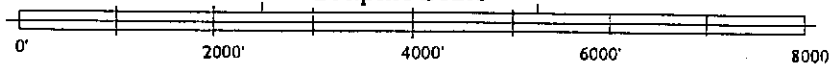
VERTEX Proj. No. 0442

VERTEX

FIGURE NO. 1



USGS Topographic Map, 1985
 Boston North, Quadrangle
 Contour Interval: 10 feet
 1/2 mi. Graphic Scale 1 mi.



SITE LOCUS MAP
 Walter E. Fernald School
 200 Trapelo Road
 Waltham, MA

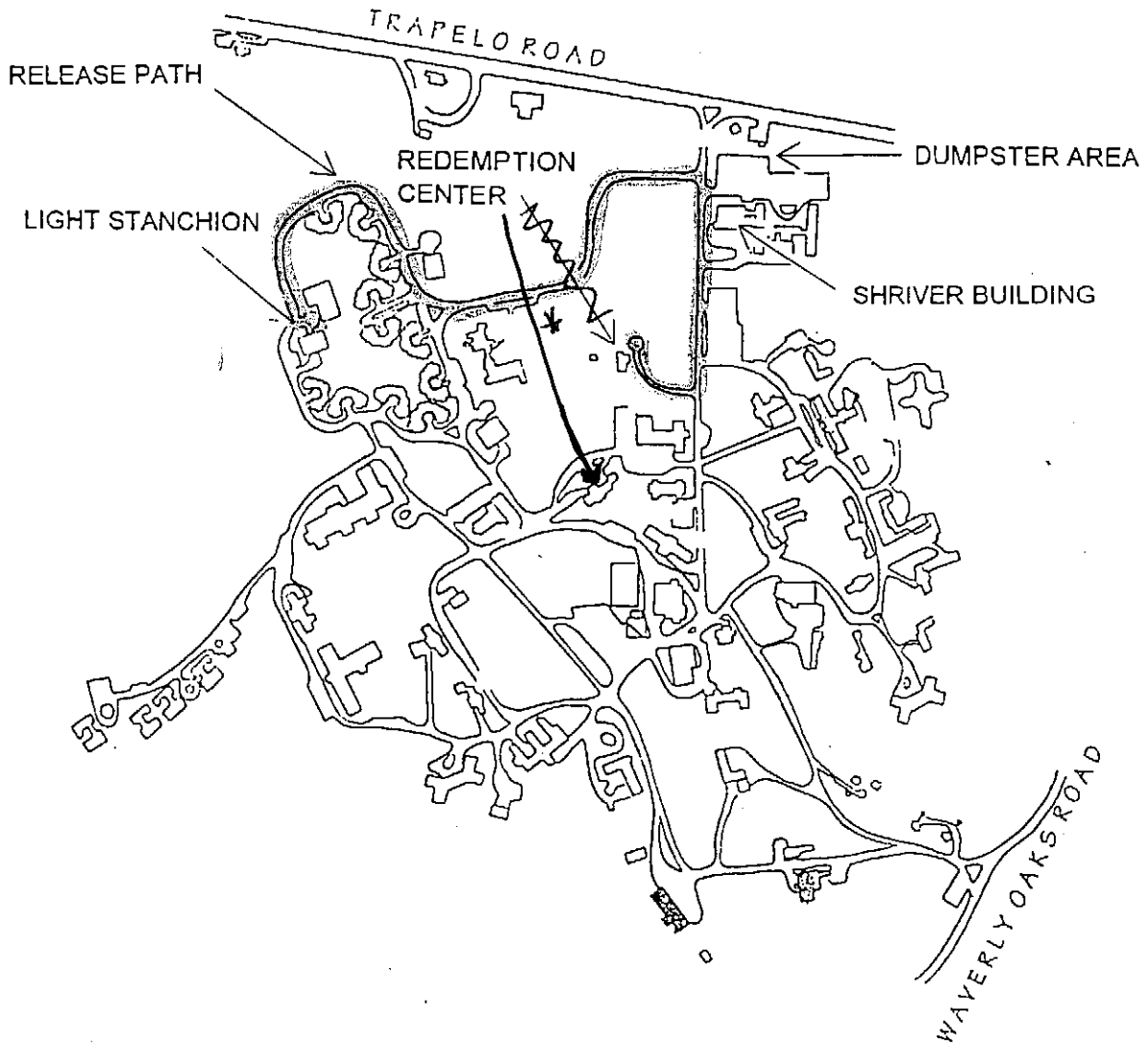
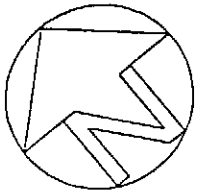
SCALE: AS SHOWN

June 27, 1997

VERTEX Proj. No. 0442

VERTEX

FIGURE NO. 1



* Correction made by Tachlaw
after verifying release areas
with Paul Bermingham (FDC Safety Officer) 1/2009

SITE SCHEMATIC
And Release Locations
Fernald State School
Waltham, Massachusetts

SCALE: NOT TO SCALE

June 30, 1997

VERTEX PROJ. NO.0442

VERTEX
Engineering Services, Inc.
FIGURE NO. 2

An Emergency Response was conducted by Keystone, already on campus performing unrelated work. The Emergency Response Actions were directed by Mr. Paul Giddings of the MADEP. The following is a summary of these actions:

Fernald Workshops Area

1 bag of Speedy Dry and some Kitty-litter (found on sight) were deployed as an absorbent to the area near the light stanchion, where the initial release of 3-4 gallons to the soil and paved areas occurred, and then swept and containerized in a 55 gallon drum.

Shriver Building Area

2 bags of Speedy Dry and some Kitty-litter (found on site) were deployed as an absorbent to the area outside the Shriver building, where 5-10 gallons of gasoline were released to the pavement. The impacted material was swept and then containerized in a 55 gallon drum.

Redemption Center Area

3 bags of Speedy Dry were used to absorb the gasoline on the impacted paved area outside the Redemption Center where 10-12 gallons of gasoline were released to a puddle. The Speedy Dry was also used to dike off and contain the impacted 4 by 15 foot puddle, absorbent pads were also placed into the impacted puddle. The following morning a vacuum truck was on-site to remove the impacted puddle. The Speedy Dry and absorbent pads were then placed in a 55 gallon drum.

The majority of operations were completed at approximately 8:00 p.m. the same night, except for the next day cleanup at the Redemption Center. Total containerized waste consisted of two 55-gallon drums containing impacted speedy dry and adsorbent pads and 15 gallons of impacted water in the vacuum truck. The two 55-gallon drums were transported off-site disposal to Northland Environmental, Inc., of Providence, RI. The 15-gallons of impacted puddle water was

transported for off-site disposal to Zecco, Inc., of Northboro, Massachusetts. Uniform Hazardous Waste Manifests can be referenced in Appendix B.

On May 21, 1997, VERTEX interviewed Lt. Galdin concerning observations he made during the previous night Response Actions. He identified two unpaved areas of the site which were observed to have been impacted at the time of the release. The first area was in the vicinity of the light stanchion adjacent to the Fernald Workshops. The second area was at the edge of the parking lot adjacent to the Shriver building, this is where residual gasoline was observed to be washed several hundred feet across the parking lot and into a grassy area.

Pursuant to the information obtained by Lt. Galdin, VERTEX collected two soil samples from the grassy area near the light stanchion adjacent to the Fernald Workshops and one from the identified area at the edge of the parking lot near the Shriver building. The soil samples were screened utilizing a photoionization detector (PID) calibrated "as benzene" to an isobutylene standard. Standard headspace screening methodologies were employed. The samples were placed into pre-labeled, laboratory supplied containers and immediately placed on ice. The samples were subsequently delivered to Woods Hole Group, Environmental Laboratories of Raynham, Massachusetts for laboratory analysis. Chain-of-Custody forms were completed and included in the sample shipment. Soil samples were analyzed for Total Petroleum Hydrocarbons by EPA Method 8100 Modified, Benzene, Toluene, Ethylbenzene and Xylene (BETEX) and Methyl tert-butyl ether (MTBE) via EPA Method 8260 Modified. Refer to Table 1 for field screening and analytical results. See Appendix C for analytical reports and associated chain of custody documentation.

Field screening and laboratory analytical results of soil samples are as follows:

Table 1- Screening and Analytical Results					
Sample ID.	Sample Location	TOV's (ppm)	TPH (mg/kg)	BTEX + MTBE (ppm)	
S-1	5 Feet Away from Light Stanchion Adjacent to Fernald Workshops (8" Below Grade)	ND	<19	Benzene	0.021 U
				Toluene	0.038
				Ethylbenzene	0.070 U
				Xylene (Total)	1.700
				MTBE	0.021 U
S-2	10 Feet Away From Light Stanchion Adjacent to Fernald Workshops (8" Below grade)	ND	<17	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
S-3	Near Dumpster at Corner of Parking Lot Adjacent to Shriver Building (8" Below Grade)	ND	52	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

U = Analyzed but not found

J = Estimated value, below quantitation limit

Results of the above listed soil analysis do not indicate that there has been a significant impact to soil at the site.

5.0 RISK CHARACTERIZATION

This section discusses the characterization of risk posed by the release of gasoline at the site. This characterization has been conducted in accordance with the procedures outlined in 310 CMR 40.0900 of the Massachusetts Contingency Plan (MCP), to demonstrate that a condition of No Significant Risk has been achieved at the site. This risk characterization involves discussions of the following:

- Hazard Identification;
- Exposure Assessment;

- Identification of Soil and Groundwater Categories;
- Selection of Method to Characterize Risk; and
- Characterization of Risk.

5.1 Hazard Identification

As discussed previously, the site is an institutional campus with an identified shallow soil release of gasoline. The impacted soil and pavement areas were remediated as discussed previously in this report. Confirmatory samples were collected from the potentially affected areas to evaluate the extent of gasoline contamination in the soil. Results of the final confirmatory samples were listed previously in Table-1.

5.2 Exposure Assessment

This section discusses the receptors, site activities and uses, exposure points and exposure point concentrations to assess the exposure that a receptor might receive during contact with impacted media at the site.

Identification of Receptors

As the site is currently and has historically been used as an institutional property, and has a mixture of administration, educational and residential buildings, the use of the property in the foreseeable future is considered to remain the same. Potential human receptors are considered to be adult workers, clients, visitors and trespassers.

Identification of Site Activities and Uses

As the site is currently and has historically been used as an institutional property for the mentally retarded. The site is comprised of a mixture of administration, educational and residential

buildings, the use of the property in the foreseeable future is considered to remain an educational institution.

As potable water is supplied to the site from municipal sources and no public wells have been identified within ½ mile of the site, use of site water for drinking or washing is not considered applicable to this assessment. Additionally, the site is not located in an area designated as a potentially productive aquifer.

Identification of Exposure Points

Exposure points are the points at which identified receptors would contact identified hazards during site activities/use. Groundwater is not used for potable purposes and exposure to groundwater is not considered an exposure point for this assessment. For this assessment, it is considered that the receptors could come into contact with impacted soil during routine activities. These receptors include adult workers, clients, visitors and trespassers.

Identification of Exposure Pathways

Exposure pathways are the routes by which exposure to the receptors at exposure points could occur. For the purposes of this assessment, site receptors could be exposed during routine activities through dermal contact with soil, ingestion of soil, and inhalation of particulate. As indicated previously, groundwater is not used for potable purposes and completion of an exposure pathway to groundwater is not considered to occur at the site.

Identification of Exposure Point Concentrations

Exposure point concentrations are the concentration of chemicals that receptors could be exposed to during site activities. To determine a conservative exposure point concentration as allowed under 310 CMR 40.0926(3) the highest concentration of each chemical was considered. These concentrations were previously displayed in Table-1. Table-2 shows that all concentrations are

below the applicable Method 1 Risk Assessment standards for S-1 Soil & GW-2 category. As indicated previously there is no exposure pathway for groundwater to impact receptors. Therefore, a groundwater exposure point concentration is not applicable.

5.3 Identification of Soil and Groundwater Categories

Soil Category

The site, receptor and exposure information previously discussed has been evaluated to determine the applicable soil category for the site. As on-site workers, clients, visitors and trespassers are included as potential receptors at the site during routine activities, the highest potential for exposure to soil has been selected as applicable to the site, for conservatism, and to demonstrate that an Activity Use Limitation (AUL) is not necessary for the Site. As such, the S-1 category, as defined in 310 CMR 40.0933 (5) has been selected.

5.4 Selection of Method to Characterize Risk

A Method 1 Risk Characterization, as described in 310 CMR 40.0970, has been selected to characterize the risk of harm to health, public welfare and the environment at this site, based on the evaluation presented previously. Specifically, the Method 1 characterization is considered applicable to this disposal site for the following reasons:

- 1) Oil materials (OHM) have only been detected in soil.
- 2) OHM detected at the site are listed in 310 CMR 40.0974 and 40.0975.
- 3) OHM present on-site are not known to bioaccumulate.

5.5 Characterization of Risk

A comparison of the exposure point concentrations to the applicable Method 1 S-1 Soil & GW-2 standards are presented below in Table-3.

Table 3- Screening and Analytical Results					
Sample ID	Sample Location	TOV's (ppm)	TPH (mg/kg)	BTEX + MTBE (ppm)	
S-1	5 Feet Away from Light Stanchion Adjacent to Fernald Workshops (8" Below Grade)	ND	<19	Benzene	0.021 U
				Toluene	0.038
				Ethylbenzene	0.070 U
				Xylene (Total)	1.700
				MTBE	0.021 U
S-2	10 Feet Away From Light Stanchion Adjacent to Fernald Workshops (8" Below grade)	ND	<17	Benzene	0.005 U
				Toluene	0.005 U
				Ethylbenzene	0.005 U
				Xylene (Total)	0.005 U
				MTBE	0.005 U
S-3	Near Dumpster at Corner of Parking Lot Adjacent to Shriver Building (8" Below Grade)	ND	52	Benzene	0.006 U
				Toluene	0.006 U
				Ethylbenzene	0.006 U
				Xylene (Total)	0.006 U
				MTBE	0.006 U
Method 1 Risk Assessment S-1 SOIL & GW-2 Standard	N/A	N/A	500	Benzene	40.0
				Toluene	500.0
				Ethylbenzene	500.0
				Xylene (Total)	500.0
				MTBE	100.0

Notes:

ND = Not Detected Above Detection Limit

N/A= Not Applicable

PPM = Parts Per Million

U = Analyzed but not found

J = Estimated value, below quantitation limit

The soil data for the site indicate that individual contamination concentrations at the site do not exceed the S-1 Soil & GW-2 standards. Based on this risk characterization, the site does not pose a risk to public health, safety, welfare. A condition of No Significant Risk, pursuant to 310 CMR 40.0900 has been achieved at the site.

6.0 FEASIBILITY OF RESTORATION TO BACKGROUND

As the site is adjacent to and inclusive of a well traveled vehicular way, it is anticipated that background concentrations of petroleum products can occur above detection limits and could vary widely across the site. Concentrations detected in impacted areas were found to be below S-1 Standards, the most stringent risk based standard provided in the MCP.

Based on the concentrations of total petroleum hydrocarbon detected, it is possible that background levels have been achieved; however, this can not be demonstrated in the absence of significant data collection and analysis. The sources of contamination detected in soil at the site have been remediated and are no longer present. The concentrations at the site, which are below the S-1 standards, are considered representative of no significant risk of harm to health, public welfare and the environment.

7.0 CONCLUSIONS

The following conclusions were made based upon the Method 1 Risk Characterization of site conditions at the subject site.

- 1) Current exposure point concentrations of TPH, BTEX and MTBE at the site are below S-1 soil standards.
- 2) Response actions performed at the site resulted in the removal of the source.
- 3) The site does not pose a risk of harm to health, public welfare and the environment.
- 4) A condition of No Significant Risk as defined by 310 CMR 40.0973(7) exists at the site.
- 5) No Activity and Use Limitations are necessary for this site.

8.0 QUALIFICATIONS

Our 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. VERTEX 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.

It must be recognized that environmental investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site investigation. All site subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the limited investigation. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated.

The conclusions presented in this report are professional opinions based solely upon visual observations and supplemental testing of soil and/or groundwater at the site. Our interpretation of the available historical information and documents reviewed, as described in this report, were also considered in the conclusions. VERTEX relied upon but did not attempt to independently verify the validity or accuracy of the findings and conclusions noted in the documentation reviewed.

This report is intended for the sole use of the Massachusetts Department of Mental Retardation. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

It should be noted that twenty percent (20%) of Response Action Outcome Statements and supporting documentation are audited by the Massachusetts Department of Environmental Protection ("the

Department"). The Department may conduct Random Audits or Targeted Audits for up to five (5) years following the submission of an RAO Statement. Under certain circumstances, as provided in 310 CMR 40.1110(3), there are no time constraints for Targeted Audits.

Due to the inherent flexibility in interpreting the applicable regulations, the Audits are often subjective and dependent on the opinion of the auditor. As a result, the auditor could require additional assessment of the site and/or remedial action. Based on these considerations, VERTEX is not and will not be responsible for costs or other possible ramifications of additional work required by the Department. The Massachusetts Department of Mental Retardation and any other parties with financial or other interests in the subject property are urged to consider these facts.

Description of Photographs

1. Photograph 1 depicts the hole in the gas tank.
2. Photograph 2 depicts the area of release adjacent to the light stanchion.
3. Photograph 3 depicts the area of release in front of the Shriver building.
4. Photograph 4 depicts the area near the dumpster adjacent to the Shriver building parking lot.

Photo
1

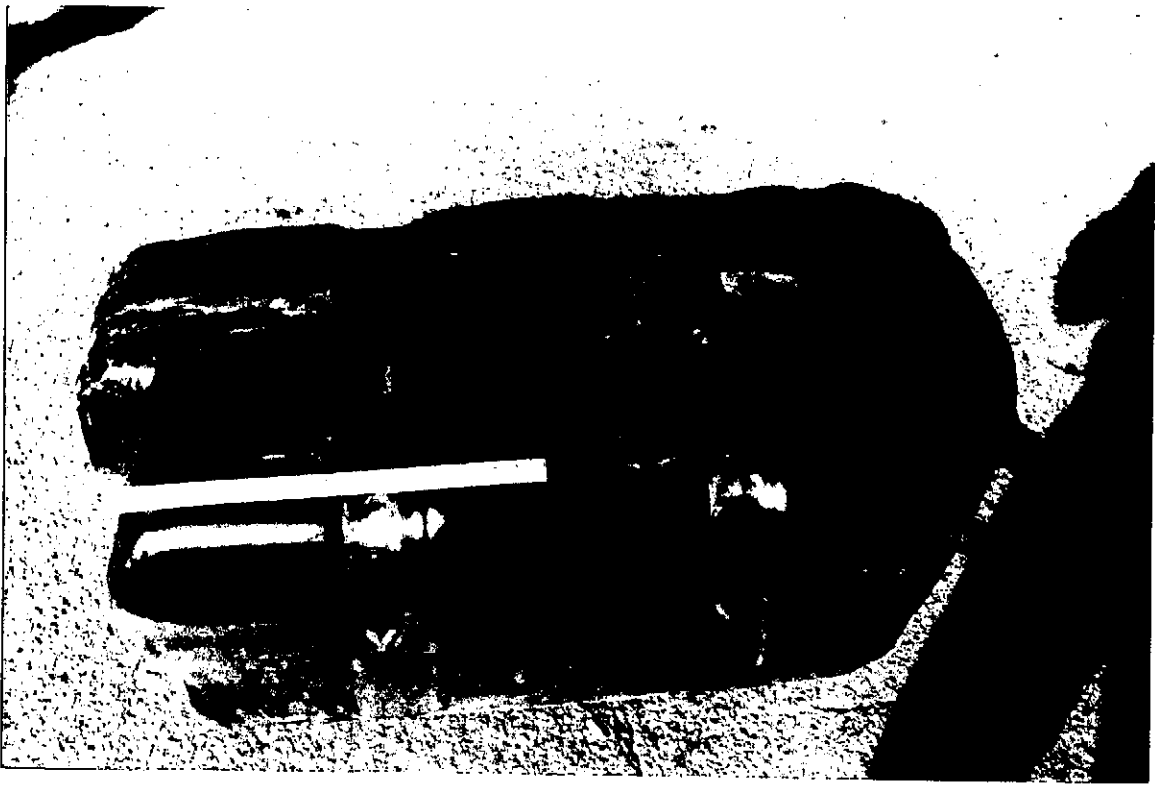


Photo
2



**PHOTOGRAPHIC
DOCUMENTATION**

Fernald School-Passenger Van Gasoline Release
200 Trapelo Road, Waltham MA

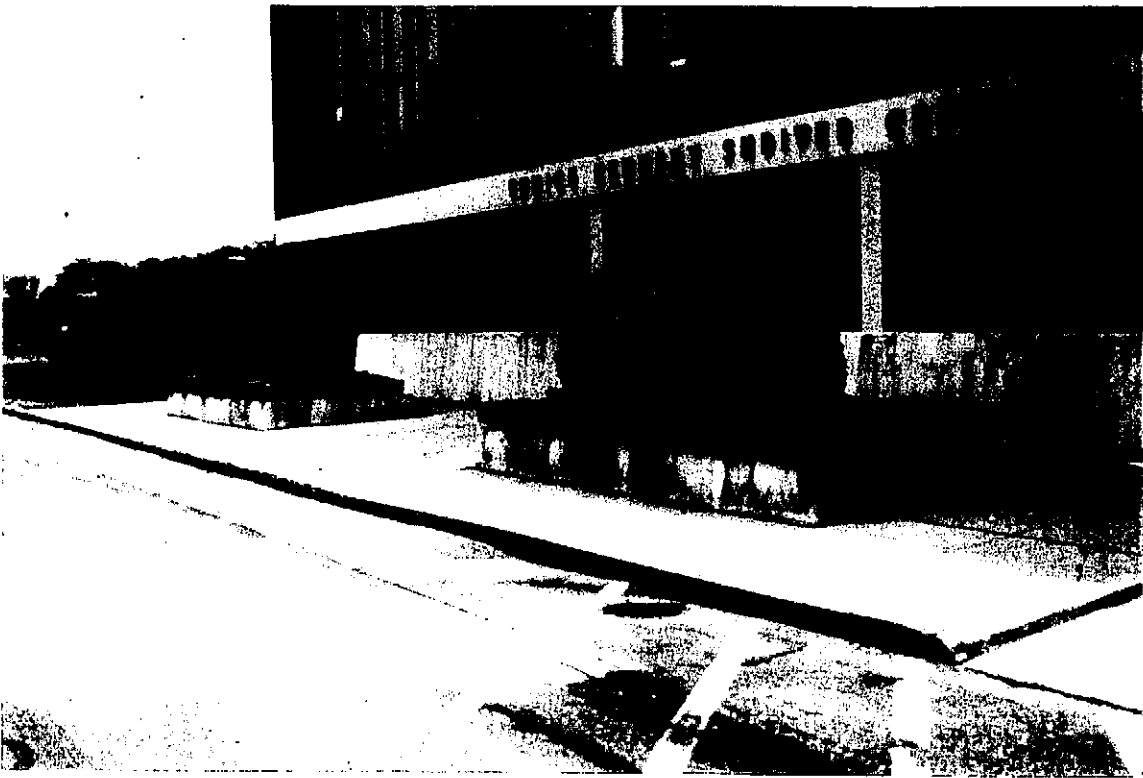
VERTEX PROJ. NO. 0442

June 26, 1997

VERTEX
Engineering Services, Inc.

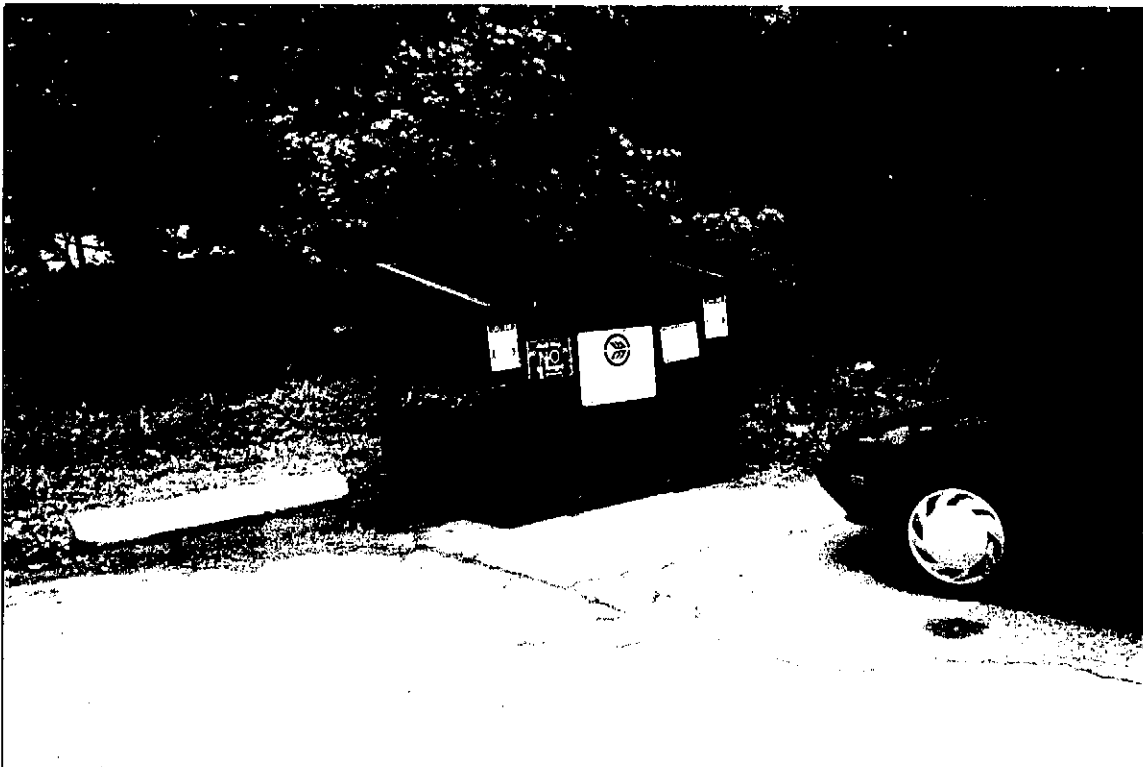
Photo

3



Photo

4



**PHOTOGRAPHIC
DOCUMENTATION**

Fernald School-Passenger Van Gasoline Release
200 Trapelo Road, Waltham MA

VERTEX PROJ. NO. 0442

June 26, 1997

VERTEX
Engineering Services, Inc.

APPENDIX B
PERMITS, MANIFESTS AND RECEIPTS

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

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



UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. MP6178943600	Manifest Document No. 101456	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
Generator's Name and Mailing Address COMM OF MASS EXECUTIVE OFFICE OF HEALTH AND HUMAN SERVICES, DEPT OF MENTAL RETARDATION 160 NO. WASHINGTON ST RM 267, BOSTON, MA 02114				A. State Manifest Document Number MA G 298045	B. State Gen. ID 200 TRAPELO RD WALTHAM		
Generator's Phone 617 727-5608				C. State Trans. ID	D. Transporter's Phone 401 7816346		
Transporter 1 Company Name 21ST CENTURY ENVIRONMENTAL INC OF RE (RE)		6. US EPA ID Number 990905985		E. State Trans. ID 12359	F. Transporter's Phone		
Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID NOT REQUIRED	H. Facility's Phone 401 781 6740		
Designated Facility Name and Site Address NORTHLAND ENVIRONMENTAL INC 275 ALLENS AVE PROVIDENCE, RI 02905-5003 IR#D 040 098352				10. US EPA ID Number			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) RQ HAZARDOUS WASTE, SOLID, NOS (BENZENE) 9, NA3077, P6 III				12. Containers No. 002	13. Total Quantity DM XX 110 G	14. Unit Wt/Vol 9	Waste No. D018
J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.) GASOLINE SPTS # 28051 (2XSS)				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY CALL Keystone Environmental Services @ 617-792-3990.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name				Signature		Date Month Day Year 11 21 1997	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Sean Mayo				Signature		Date Month Day Year 12 30 1997	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

GENERATOR
TRANSPORTER
FACILITY

MA G298045 COPY>B: GENERATOR MAILS TO DESTINATION STATE

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 elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator US EPA ID No. MA00178943400101915	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: COMMONWEALTH OF MASSACHUSETTS DEPT OF ENVIRONMENTAL PROTECTION 100 WOOD ST BOSTON MA 02114			A. State Manifest Document Number MA00178943400101915		B. State Gen ID			
4. Generator's Phone: 617-727-5608			C. State Trans ID		D. Transporter's Phone			
5. Transporter 1 Company Name ARIZONA ENVIRONMENTAL CORP		6. US EPA ID Number MA059934495		E. State Trans ID		F. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Trans ID		H. Facility's Phone		
9. Designated Facility Name and Site Address: ZELCO, INC 345 WEST MAIN STREET NORTH BARN, MA 01530			10. US EPA ID Number MA059934495		I. State Facility ID Not Required		J. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No	
a. RW WASTE FLAMMABLE LIQUIDS N.O.S. (GASOLINE, WATER) FLAMMABLE LIQUIDS, 3 UN1993 PGII				No.				
b.				Type				
c.								
d.								
Additional Descriptions for Materials Listed Above (include physical state and hazard code)				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY PHONE NUMBER 617-727-5608				16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name HARRIS		Signature William W. Harris		Date Month Day Year				
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature Leo T. McMahon		Date Month Day Year 09/11/77				
18. Transporter 2 Acknowledgement 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.								
Printed/Typed Name		Signature		Date Month Day Year				

GENERATOR

GENERATOR MAILS TO DESTINATION STATE

APPENDIX C
LABORATORY ANALYTICAL REPORT



Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

Certification of Results

The enclosed results of analyses are representative of the sample(s) as received by the laboratory. Woods Hole Group Environmental Laboratories (WHG) makes no representations or certifications as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Michael Mc-Garry
Woods Hole Group Environmental Laboratories

Date: 6/6/97

Certificates

Massachusetts MA030
Connecticut PH0141
New Hampshire 220696
Rhode Island 64
California I-2209 (Interim)
New York 11627 (Interim)



Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite 8
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

EPA Method - 8260

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-1

Sample ID: S-1 05/29/97 @1300(SOIL							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
5/30/97	N/A	3 Jun 97 6:31 p	EMH	1.38 g	SOIL	B2060302	88%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	21 U
Toluene	38
Ethylbenzene	70
Xylene (total)	1700
Methyl tert-butyl ether (MTBE)	21 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	99%	82%-121%
Toluene-d8	99%	81%-111%
4-Bromofluorobenzene	96%	69%-117%

Key: U - Analyzed but not found.
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



Woods Hole Group

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Fax: 508-822-3288

EPA Method - 8260

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-2

Sample ID: S-2 05/29/97 @1300(SOIL							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
5/30/97	N/A	3 Jun 97 5:27 p	EMH	5 g	SOIL	B2060302	95%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	100%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	99%	69%-117%

Key: U - Analyzed but not found,
 J - Estimated value, below quantitation limit.
 B - Found in associated blank as well as sample.
 N/A - Not Applicable.



Woods Hole Group

Environmental Laboratories

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Fax: 508-822-3288

EPA Method - 8260

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-3

Sample ID: S-3 05/29/97 @1300 (SOIL)							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
5/30/97	N/A	3 Jun 97 5:19 a	EMH	5.16 g	SOIL	B2060202	82%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	6 U
Toluene	6 U
Ethylbenzene	6 U
Xylene (total)	6 U
Methyl tert-butyl ether (MTBE)	6 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	100%	82%-121%
Toluene-d8	97%	81%-111%
4-Bromofluorobenzene	86%	69%-117%

Key: U - Analyzed but not found.
J - Estimated value, below quantitation limit.
B - Found in associated blank as well as sample.
N/A - Not Applicable.



Woods Hole Group

Environmental Laboratories

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Fax: 508-822-3288

EPA Method - 8260

Quality Control Report

Lab ID Number: B2060302

Sample ID:		Method Blank					
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97 3:50 p	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	98%	82%-121%
Toluene-d8	101%	81%-111%
4-Bromofluorobenzene	101%	69%-117%

Key: U - Analyzed but not found.
J - Estimated value, below quantitation limit.
N/A - Not Applicable.



Woods Hole Group

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EPA Method - 8260

Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97	EMH	1	SOIL	B2060302	100%

Concentration units ug/Kg

Blank Spike Q2060301				Blank Spike Dup Q2060302			
SAMPLE ID:	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	43	87%	45	90%	3.2%	59-172%
Benzene	U	45	90%	46	93%	2.7%	66-142%
Trichloroethene	U	46	93%	48	97%	4.4%	62-137%
Toluene	U	46	92%	47	94%	2.9%	59-139%
Chlorobenzene	U	46	92%	47	94%	2.2%	60-133%

* = Recovery outside limits.



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EPA Method - 8260

Quality Control Report

Lab ID Number: B2060202

Sample ID:		Method Blank					
Date Received	Date Extracted	Date Analyzed	Analyzed By	Sample Amount	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97 2:09 a	EMH	5 g	SOIL	N/A	100%

CONCENTRATION UNITS: $\mu\text{g/Kg}$

Compound

Benzene	5 U
Toluene	5 U
Ethylbenzene	5 U
Xylene (total)	5 U
Methyl tert-butyl ether (MTBE)	5 U

Surrogate	% Recovery	Acceptable Range
Dibromofluoromethane	99%	82%-121%
Toluene-d8	100%	81%-111%
4-Bromofluorobenzene	100%	69%-117%

Key: U - Analyzed but not found.
J - Estimated value, below quantitation limit.
N/A - Not Applicable.



EPA Method - 8260

Quality Control Results

Volatile Blank Spike/Blank Spike Duplicate							
Date Received	Date Extracted	Date Analyzed	Analyzed By	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	N/A	3 Jun 97	EMH	1	SOIL	B2060202	100%

Concentration units ug/Kg

SAMPLE ID:	Blank Spike Q2060203			Blank Spike Dup Q2060204			
	Sample Conc.	BS Conc.	BS % Recovery	BSD Conc.	BSD % Recovery	% RPD	% Recovery
1,1 Dichloroethene	U	45	89%	44	88%	1.4%	59-172%
Benzene	U	45	90%	44	88%	2.1%	66-142%
Trichloroethene	U	47	94%	47	94%	0.6%	62-137%
Toluene	U	45	91%	45	90%	1.0%	59-139%
Chlorobenzene	U	43	86%	43	86%	0.3%	60-133%

* = Recovery outside limits.



Woods Hole Group

Environmental Laboratories

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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-1

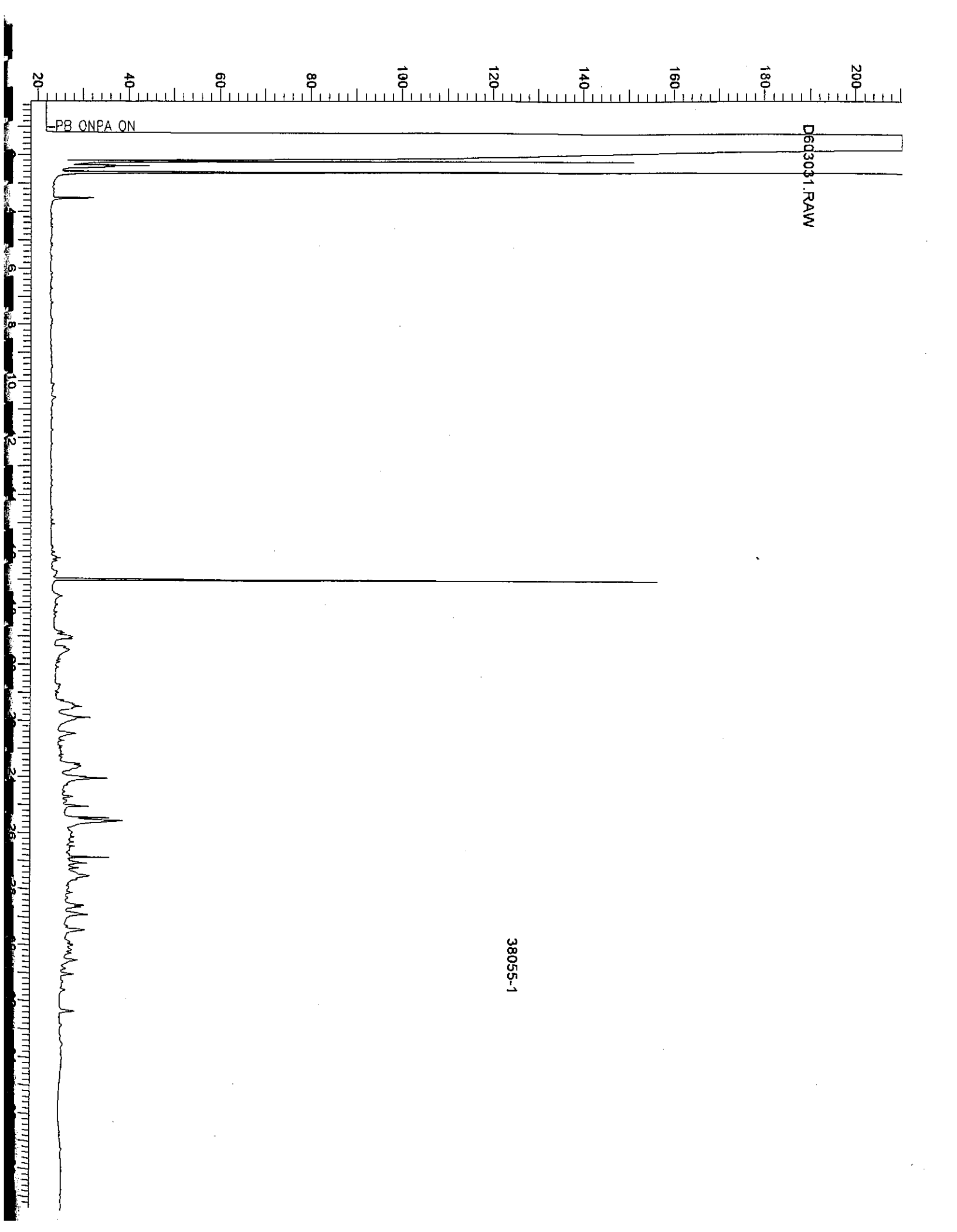
Sample ID: S-1 05/29/97 @1300(SOIL							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
5/30/97	6/2/97	6/4/97	NLJr	1	soil	TS0602B1	88%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<19
C19-C36 Hydrocarbons	<19
Total Petroleum Hydrocarbons	<19

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	40%	25%-120%

Qualitative Identification Results:

The sample chromatogram did not contain enough material for a qualitative identification.





Woods Hole Group

Environmental Laboratories

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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-2

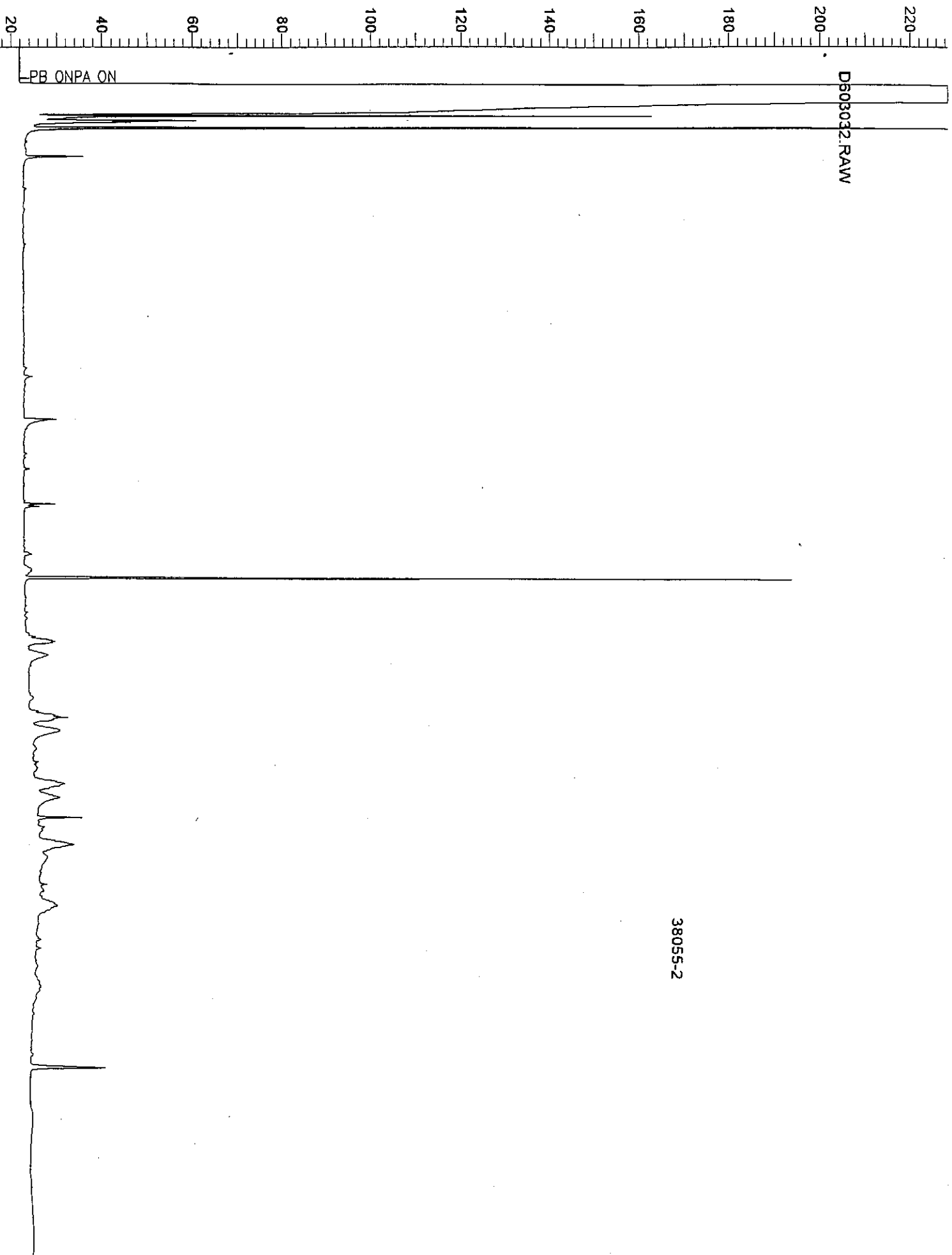
Sample ID: S-2 05/29/97 @1300(SOIL							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
5/30/97	6/2/97	6/4/97	NLJr	1	soil	TS0602B1	95%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<17
C19-C36 Hydrocarbons	<17
Total Petroleum Hydrocarbons	<17

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	53%	25%-120%

Qualitative Identification Results:

The sample chromatogram did not contain enough material for a qualitative identification.





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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Vertex Engineering

ETR Number: 38055

Project: Fernald IRA 0442

Lab ID Number: 38055-3

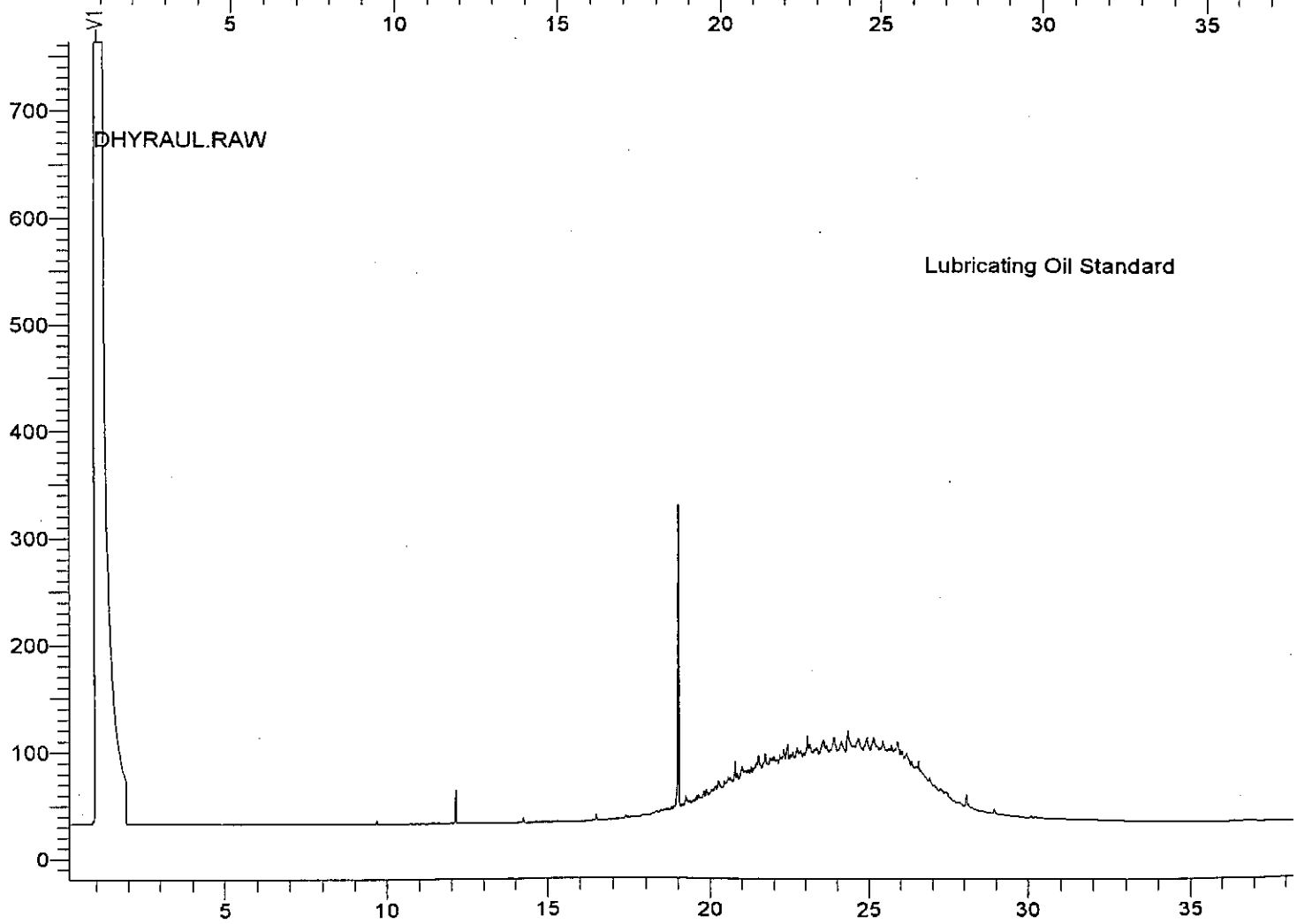
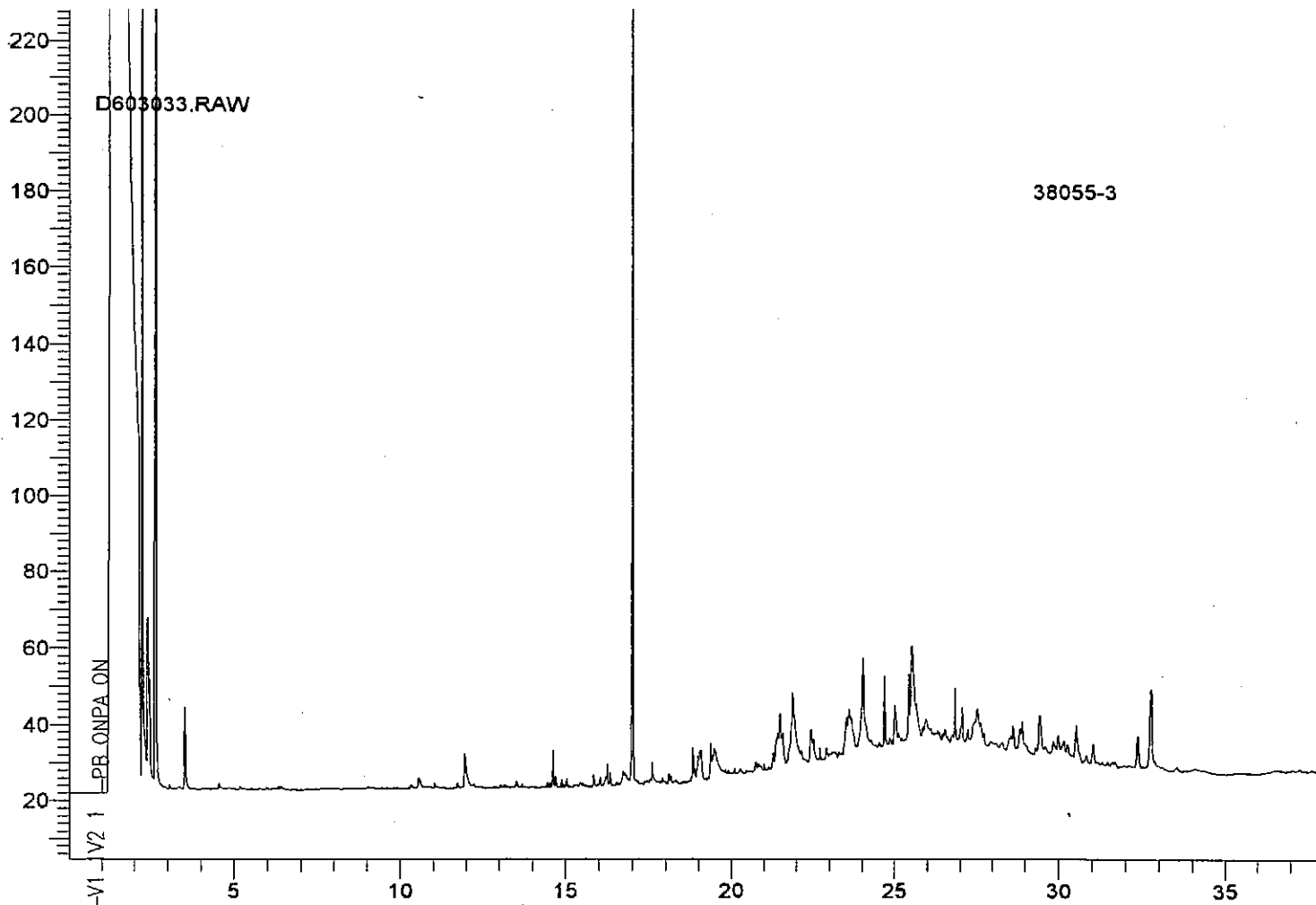
Sample ID: S-3 05/29/97 @1300(SOIL							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
5/30/97	6/2/97	6/4/97	NLJr	1	soil	TS0602B1	82%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<20
C19-C36 Hydrocarbons	52
Total Petroleum Hydrocarbons	52

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	69%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to high molecular weight components in the lubricating oil range.





Woods Hole Group

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Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Quality Control Report

Lab ID Number: TS0602B1

Sample ID: Method Blank							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	6/2/97	6/3/97	NLJr	1	soil	N/A	100%

Parameter	Results in mg/Kg (ppm)
C9-C18 Hydrocarbons	<17
C19-C36 Hydrocarbons	<17
Total Petroleum Hydrocarbons	<17

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	84%	25%-120%



Woods Hole Group

Environmental Laboratories

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Fax: 508-822-3288

Total Petroleum Hydrocarbons by GC/FID

Sample ID:		Laboratory Control Spike					
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	6/2/97	6/3/97	NLJr	1	soil	TS0602B1	100%

Parameter	Results in mg/Kg (ppm)	% Recovery
DIESEL FUEL	280.5	84%

Amount Spiked: 333 mg/Kg

Surrogate	Percent Recovery	QC Advisory Limits
ortho-Terphenyl	105%	25%-120%

COMPANY INFORMATION

Name: Vertex Engineering
Address: 400 Lilley Pkwy
Weymouth, MA 02189
Telephone: 617-335-6361
Facsimile: 617-335-3543
Contact Name: Jaron Frieden

COMPANY'S PROJECT INFORMATION

Project Name: Fernald IRA
Project Number: 0442
P.O. #: 154
Sampler Name(s): Jaron Frieden

SHIPPING INFORMATION

Carrier: _____
Airbill Number: _____
Date Shipped: _____
Quote #: _____

TAT — 10 Day — 5 Day — 3 Day — 48 Hr — 24 Hr — Other

VOLUME/CONTAINER TYPE/
PRESERVATIVE (NOTE 4)

902 Glass NR
412 Glass NR

NUMBER OF CONTAINERS

1
1
1

ANALYSIS/REMARKS (NOTE 2, 3)

Soil TPH 800 m, BTEX
Soil TPH 800 m, BTEX
Soil TPH 800 m, BTEX

COLLECTION DATE

5/29/97
5/29/97
5/29/97

SAMPLE ID (NOTE 1)

S-1
S-2
S-3

COMPOSITE GRAB

Soil
Soil
Soil

MATRIX

TIME

1:00
1:00
1:00

Relinquished by: (signature)

DATE

Received by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.: MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.: 40ml/glass/H₂SO₄.

Relinquished by: (signature)

DATE

Received by: (signature)

Notes to Lab:

Relinquished by: (signature)

DATE

Received for Laboratory by: (signature)

EXHIBIT C-13

MassDEP Files For Adjacent Parcels

SUPPLEMENTAL INFORMATION

FMR Heating Plant South Of, 333 Forest Street (RTN 3-0022303)

Site Information			
Site Number:	3-0022303	Category:	TWO HR
Site Name:	FMR HEATING PLANT SOUTH OF	Release Type:	RAO
Address:	333 FOREST ST	Current date:	1/31/2008
Town:	WALTHAM	Phase:	PHASE II
Zipcode:	02154-0000	RAO class:	A3
Official notification date:	11/13/2002	Location type:	FEDERAL
Initial status date:	11/13/2003	Source:	ASBESTOS
Click Here for File Viewer			

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	1/31/2008
RAO class:	A3
Activity & Use Limitation:	NOTICE
Response Action Information	
Response Action Type:	AUL - Activity and Use Limitation
Status:	RECPT - Transmittal or Notification Received
Submittal Date:	1/31/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	CSRCVD - Completion Statement Received
Submittal Date:	1/31/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	T2TRAN - Tier 2 Transfer
Submittal Date:	9/5/2007
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	11/20/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	11/20/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	11/20/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	SOW - Scope of Work Received
Submittal Date:	11/20/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	1/17/2003
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release

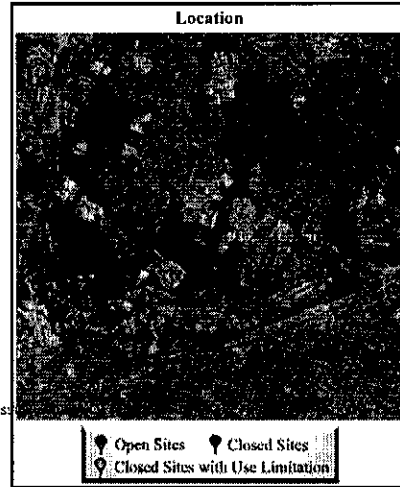
Chemicals		
Chemical	Amount	Units
ARSENIC	34.8	MG/KG
ASBESTOS	1	LBS

LSPs	
LSP#	Name
3760	BLAKE, CRAIG E

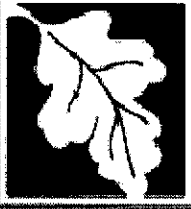
RAO Detail			
Class	Method	GW Category	Soil Category
A3	3		1

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
167	30	67	25	45	0	N	N

Submittal Date:	11/13/2002
RAO class:	
Activity & Use Limitation:	



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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC102

RELEASE AMENDMENT FORM

Release Tracking Number

3 - 22303

A. RELEASE/SITE LOCATION:

1. Site Name/Location Aid: **FMR HEATING PLANT SOUTH OF**
2. Street Address: **333 FOREST ST**
3. City/Town: **WALTHAM, WALTHAM** 4. ZIP Code: **021540000**

B. THIS FORM IS BEING USED TO: (check all that apply)

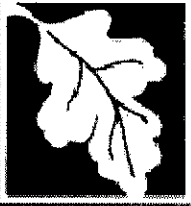
1. Date of Response(s): **9/11/2007** Start Time: **01:45** AM PM
(mm/dd/yyyy) (hh:mm)
- 2. Record an Initial Compliance Field Response - Announced
 - 3. Record an Initial Compliance Field Response - Unannounced.
 - 4. Record a Compliance Field Response - Announced.
 - 5. Record a Compliance Field Response - Unannounced.
 - 6. Record a Field Response - Direct Oversight.
 - 7. Record a Follow-up or Other Field Response.
 - 8. Record a Follow-up Office Response.
 - 9. Identify or Update a PRP or Other Person Associated with Release. (Fill out Section E)
 - 10. Correct or Add Data to WSC Database otherwise not specified on this form. (Record in Section C and, if needed, F)

C. DESCRIPTION OF ACTIVITIES RECORDED BY THIS FORM: (If additional lines are needed, record in Section F.)

THE WRITER REVIEWED A RAM PLAN PROPOSING THE CAPPING OF APPROXIMATELY 10,000 SQUARE FEET OF SOIL CONTAMINATED WITH ARSENIC AND ASBESTOS AT THE SITE OF A FORMER POWER PLANT. ACCORDING TO THE RAM PLAN, THE ACM IS NOT FRIABLE UNDER THE MASSDEP ELUTRIATOR METHOD, AND THE ARSENIC DATA SHOWS LIMITED HITS ABOVE RCS. THE PROPOSED CAP IS A GEOTEXTILE MATERIAL COVERED WITH ONE FOOT OF GRAVEL. ON 9/11/07, THE WRITER CONTACTED THE LSP OF RECORD, MR. CRAIG BLAKE [PH. (781) 251-0200] TO DISCUSS THE RAM. ACCORDING TO HIM, THIS CAPPING, WHILE ON COLLEGE PROPERTY, IS NOT NEAR ANY DORMS OR PROPOSED DORMS - IT IS ANTICIPATED TO BE A LANDSCAPED AREA AWAY FROM THE MORE HEAVILY USED PORTIONS OF THE COLLEGE PROPERTY. I DID WARN HIM THAT THE PROPOSED CAP MAY BE COMPLETED UNDER THE RAM, THAT USE OF AN AUL (AS PROPOSED) ALONE WILL NOT BE SUFFICIENT TO JUSTIFY THE CAP DUE TO ITS LIMITED THICKNESS. MR. BLAKE SAID HE UNDERSTOOD, HE BELIEVED THA THE CAP MAY BE ADEQUATE IF THE DRAFT ACM IN SOIL POLICY IS FINALIZED, BUT WOULD WAIT TO WHETHER THE POLICY WAS APPLICABLE PRIOR TO FILING THE RAO. AS SUCH, THERE ARE NO FURTHER ISSUES WITH THE RAM PLAN AT THIS TIME.

D. DEP STAFF AND FORM PREPARER:

1. DEP Staff: a. Name: **MACAFEE KYLE** b. Check here, if Unassigned (or staff name not applicable).
2. Preparer Signature: **Kyle MacAfee** 3. Date: **09/12/2007**



RELEASE AMENDMENT FORM

Release Tracking Number

3 - 22303

E. PRP OR OTHER PERSON ASSOCIATED WITH RELEASE :

1. Check all that apply: a. change in contact name b. change of address c. new person associated with release

2. Name of Organization: **BENTLEY COLLEGE**

3. Contact First Name: **PAUL** 4. Last Name: **CLEMENTE**

5. Street: **175 FOREST STREET** 6. Title:

7. City/Town: **WALTHAM** 8. State: **MA** 9. ZIP Code: **024520000**

10. Telephone: **7818912135** 11. Ext.: 12. FAX:

13. Relationship of Person to Release: a. PRP b. Other c. Type **PRP Current Owner**

F. ADDITIONAL DESCRIPTION:

Empty box for additional description.

SUPPLEMENTAL INFORMATION

UTM 4694592N 318350E, 313 Waverley Oaks Road (RTN 3-0003078)
(a.k.a. Shell Product Distribution Plant Former)

EDR Name: UTM 46 9 4692N 318350E (LUST)

EDR Map ID B10

Site Information			
Site Number:	3-0003078	Category:	NONE
Site Name:	SHELL PRODUCT DIST PLANT FMR	Release Type:	RAO
Address:	313 WAVERLEY OAKS RD	Current date:	8/6/2004
Town:	WALTHAM	Phase:	PHASE III
Zipcode:	02154-0000	RAO class:	A3
Official notification date:	10/15/1990	Location type:	FORMER, FUEL DEPOT, TANK FARM, WETLANDS
Initial status date:	8/2/1997	Source:	AST, PIPE, UST

Response Action Information	
Response Action Type:	AUL - Activity and Use Limitation
Status:	LEGNOT - Legal Notice Published
Submittal Date:	8/24/2004
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	8/6/2004
RAO class:	A3
Activity & Use Limitation:	NOTICE

Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	CSRCVD - Completion Statement Received
Submittal Date:	12/23/2003
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	T2EXT - Tier 2 Extension
Submittal Date:	12/22/2003
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	3/15/2002
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	CSRCVD - Completion Statement Received
Submittal Date:	12/6/2000
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHSIII - Phase 3
Status:	NDMDRC - Notice of Delay in Meeting RA Deadline Received
Submittal Date:	5/3/2000
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/21/1996
RAO class:	
Activity & Use Limitation:	

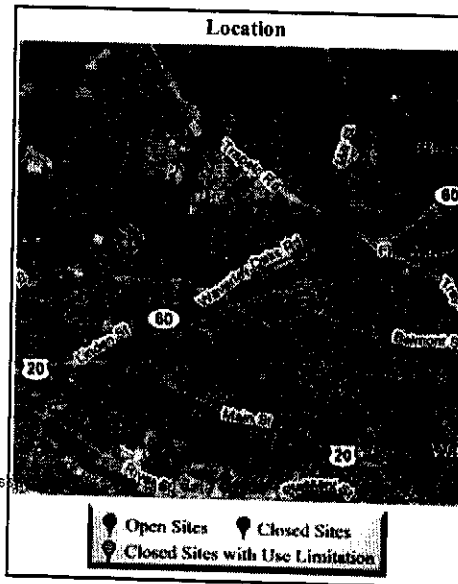
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	TCTRNS - Tier Classified Transition Sites

Chemicals		
Chemical	Amount	Units
UNKNOWN		

LSPs	
LSP#	Name
8926	SHAW, MICHAEL M

RAO Detail			
Class	Method	GW Category	Soil Category
A3	3	2	2

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
332	120	117	30	65	0	N	N



linked to SHWS 3-18952

Submittal Date:	10/15/1990
RAO class:	
Activity & Use Limitation:	

SUPPLEMENTAL INFORMATION

Duffy Brothers Construction, 411 Waverley Oaks Road (RTN 3-0000454)

EDR Map ID

C14

Site Information			
Site Number:	3-0000454	Category:	NONE
Site Name:	DUFFY BROTHERS CONSTRUCTION	Release Type:	RAO
Address:	411 WAVERLEY OAKS RD	Current date:	8/11/2008
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	C2
Official notification date:	1/15/1987	Location type:	COMMERCIAL
Initial status date:	9/6/1995	Source:	LAGOON, UNKNOWN
Click Here for File Viewer			

Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	CSRCVD - Completion Statement Received
Submittal Date:	5/22/2009
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASIV - Phase 4
Status:	CSRCVD - Completion Statement Received
Submittal Date:	5/22/2009
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	PEREXT - Permit Extension Received
Submittal Date:	11/25/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	TSAUD - Level I - Technical Screen Audit
Submittal Date:	9/5/2008
RAO class:	C2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	PHSIII - Phase 3
Status:	CSRCVD - Completion Statement Received
Submittal Date:	3/31/2004
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	CSRCVD - Completion Statement Received
Submittal Date:	10/10/2001
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	5/28/1999
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAO-P - Partial RAO for this RTN
Status:	RAORCD - RAO Statement Received
Submittal Date:	3/5/1996
RAO class:	B1
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	FCTRNS - Tier Classified Transition Sites
Submittal Date:	1/15/1987
RAO class:	
Activity & Use Limitation:	

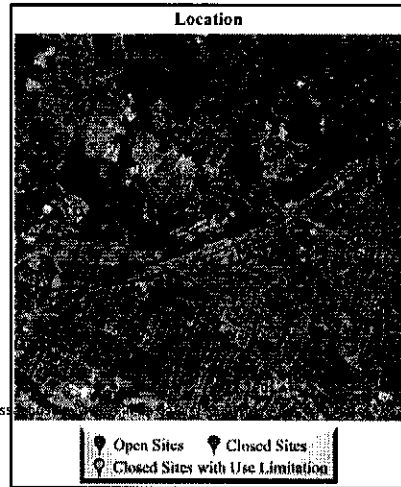
Chemicals		
Chemical	Amount	Units
UNKNOWN CHEMICAL OF UNKNOWN TYPE		

LSPs	
LSP#	Name
6048	MCBRIDE, GREGG W
4180	RICCIARDELLI, ALBERT J
8926	SHAW, MICHAEL M

Secondary RTNs
3-0025816

RAO Detail			
Class	Method	GW Category	Soil Category
C2	3	2	2
B1	1	2	1

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
546	270	156	35	85	0	N	N



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**PHASE IV AS-BUILT CONSTRUCTION
REPORT, FINAL INSPECTION REPORT
AND COMPLETION STATEMENT
UPLAND AREA
411 WAVERLEY OAKS ROAD
WALTHAM, MASSACHUSETTS
RTN 3-0454**

PREPARED ON BEHALF OF:
Duffy Brothers Remedial Trust II
Waltham, Massachusetts

PREPARED BY:
GZA GeoEnvironmental, Inc.
Norwood, Massachusetts

May 2009
File No. 12820.90

GZA
GeoEnvironmental, Inc.

*Engineers and
Scientists*

May 18, 2009
File No. 12820.90



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

One Edgewater Drive
Norwood
Massachusetts
02062
781-278-3700
FAX 781-278-5701
<http://www.gza.com>

Re: Phase IV – Final Inspection Report and OMM Plan - Upland Area
411 Waverley Oaks Road
Waltham, Massachusetts
RTN 3-0454

Dear Sir or Madam:

On behalf of Duffy Brothers Construction, Inc. (Duffy's), GZA GeoEnvironmental, Inc. (GZA) is submitting the attached Phase IV Final Inspection Report (FIR) and Operation, Maintenance, and Monitoring (OMM) Plan report for the Site located at 411 Waverley Oaks Road in Waltham, Massachusetts. This Phase IV FIR has been prepared in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0878. The Phase V OMM Plan has been prepared in accordance with the requirements of 310 CMR 40.0874. Upon submittal of these reports, the Upland Area of the site will be in Post Class C response Action Outcome (RAO) OMM.

If you have any questions or concerns regarding the attached report, please contact the undersigned at (781) 278-3700.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'R. Parkman', written over a light blue horizontal line.

Russell J. Parkman, P.E.
Senior Project Manager

A handwritten signature in black ink, appearing to read 'P. Sheehan', written over a light blue horizontal line.

Patrick F. Sheehan, P.E.
Consultant/Reviewer

A handwritten signature in black ink, appearing to read 'A. Ricciardelli', written over a light blue horizontal line.

Albert J. Ricciardelli, P.E., LSP
Senior Principal

Attachment: Report

cc: Mr. Kevin Duffy – Duffy Bros. Construction
William Gillis, Esq. – Donovan Hatem LLP

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FIGURES

FIGURE 1	SITE LOCUS PLAN
FIGURE 2	DISPOSAL SITE PLAN
FIGURE C-2	LOW PERMEABILITY WALL AND DRAIN LINE REPAIRS

APPENDICES

APPENDIX A	COPY OF BWSC 108 FORM AND EDEP RECEIPT
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APPENDIX H	NOTICE OF CHANGE FOR RGP
APPENDIX I	COPY OF PUBLIC INVOLVEMENT NOTICE



1.00 INTRODUCTION

This report (Report) serves as the Phase IV As-Built Construction Report, Final Inspection Report, and Completion Statement for the Groundwater and Separate Phase Hydrocarbon (SPM) Recovery System (Recovery System) installed in the "Upland Area" of the 411 Waverley Oaks Road Site located in Waltham, Massachusetts (the "Site"). This report has been prepared in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. The Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) for the Site is 3-0454.

GZA GeoEnvironmental, Inc. (GZA) has prepared this Report on behalf of the property owner, Duffy Brothers Construction, Inc. (Duffy). This Report is a companion submittal to the Post-Class C Response Action Outcome (RAO) Operation, Maintenance, and Monitoring Plan (OMM Plan). A copy of the completed Comprehensive Response Action Transmittal Form (BWSC108) is included within this report as Appendix A along with the eDEP form transmittal receipt.

This report is subject to the Limitations provided in Appendix B.

1.10 SITE CONTACTS

1.10.1 RP/PRPs

Duffy Brothers Construction, Inc. is the responsible party for submittal of this Report. Mr. Kevin Duffy is the contact for the company and can be reached at the following address and telephone number:

Mr. Kevin P. Duffy
Duffy Brothers Construction, Inc.
411 Waverley Oaks Road, Suite 340
Waltham, Massachusetts 02452
Telephone: 781-647-5775

1.10.2 Site LSP

The Licensed Site Professional (LSP) for the Site is Albert J. Ricciardelli of GZA, who can be reached at the following address and telephone number:

Mr. Albert Ricciardelli
GZA GeoEnvironmental Inc.
1 Edgewater Drive
Norwood, Massachusetts 02062
Telephone: 781-278-3831



1.10.3 Operator

On behalf of Duffy, the operator of the selected remedial action alternative will be GZA. The operator's lead representative is Patrick Sheehan, who can be reached at the following address and telephone number:

Mr. Patrick Sheehan
GZA GeoEnvironmental, Inc.
1 Edgewater Drive
Norwood, Massachusetts 02062
Telephone: 781-278-3824

2.00 DESCRIPTION OF SITE CONDITIONS AND SURROUNDING AREAS

This section presents a description of the Site including observed subsurface conditions and impacts. The following Site description is a summary of information presented in the Phase IV Remedy Implementation Plan (RIP) for the Upland Area of the Site dated October 2007.

The 411 Waverley Oaks Road property occupies approximately 27 acres in a mixed residential, commercial, and industrial area of Waltham, Massachusetts. Figure 1 presents the Site Locus Plan. The Site is comprised of a portion of the 411 Waverley Oaks Road property including Parcels 2 and 3 north of the delineated bordering vegetated wetland (BVW) boundary (referred to as the "Upland Area" of the Site) and a portion of the wetland to the south of the BVW boundary and developed portion of the property (referred to as the "Wetland Area" of the Site). The Site includes two large commercial/industrial buildings designated as "Buildings D and E" (which are connected and appear as one building), an office building, and a pond located within the Wetland Area. A Disposal Site Plan illustrating the Site boundary, exploration locations and other significant features of the Site's Upland and Wetland Areas is presented in Figure 2¹.

In addition to Buildings D and E and the office building discussed above, four radio towers are located in the Upland Area. There are three small buildings east of Buildings D and E which house the new groundwater and separate phase hydrocarbon (SPH²) recovery system (Recovery System), a power station for the radio towers, and a garage. An underground oil/water separator associated with the site storm drain system is located north of Building H. The majority of the developed portion of the Site is covered with asphalt pavement but there are limited landscaped areas adjacent to Site buildings and

¹In February 1996, GZA submitted a Closure Report (Partial RAO) for Parcels 1 and 4 of the 411 Waverley Oaks Road property. This report included a Method 1 Risk Characterization, which concluded that a condition of No Significant Risk (NSR) had been achieved on these parcels. On March 21, 1996, MassDEP issued a Response Action Outcome (RAO) Concurrence for Parcels 1 and 4.

²The terms "SPH" and "product" are used interchangeably throughout this report.



between the main parking areas and the Wetland Area. In late 2001, the portion of the parking lot between Buildings D and E and the Wetland Area was raised approximately 1 to 2 feet in grade due to settlement of the area over time to limit flooding of the parking areas adjacent to the wetlands.

The Site's Wetland Area is located south of the existing buildings and parking areas (Figure 2). A small pond, approximately 550 feet long by 50 feet wide, is located along the northern edge of the Wetland Area, immediately adjacent to the rear of the facility parking lot. This pond is referred to in prior reports as the "On-Site Pond." Water in the On-Site Pond flows southwest through a channel approximately 10 to 20 feet wide, and converges with Beaver Brook about 250 to 600 feet downstream. This channel is referred to in prior reports as the "Main Channel."

Beaver Brook flows from east to west through the Wetland Area along the property's southern boundary. As Beaver Brook enters the Site, it is confined to a well-defined stream channel that appears to be man-made. At a point approximately 250 feet south-southeast of the outlet of the On-Site Pond, Beaver Brook breaks into a few smaller channels. These smaller channels flow to the Main Channel. At a point approximately 850 feet southwest of the On-Site Pond outlet, the wetland (as flagged by Liston Associates [Liston]) ends and Beaver Brook flows west through a channeled stream approximately 10 feet wide.

Parcels 1 and 4 are immediately north of the Site, and wooded land, residences, and the Fernald State School are located across Waverley Oaks Road from Parcels 1 and 4. Residences and the Department of Conservation and Recreation (DCR) Beaver Brook Reservation are located east of the Site. Existing commercial property and a former Shell Oil Company petroleum storage facility (Shell Property) are located adjacent to the Site's western boundary. The former Shell Property has recently been developed into commercial office space where three four-story office buildings are currently located.

2.10 SUBSURFACE CONDITIONS

Based on previous Site investigations, including the Phase II Comprehensive Site Assessment (by GZA dated July 1995), subsurface materials across the Upland Area of the Site consist of bedrock overlain by varying deposits of glacial till, natural sands and gravels, peat and organics, and fill consisting of silt, silty sand and gravel.

The thickness of fill across the Upland Area of the Site ranges between approximately 5 and 17 feet, and generally increases from west to east across the area. When the property was originally developed, some portions of the Site, especially in areas north of the Wetland Area, were regraded to accommodate Site facilities such as building foundations and parking areas, as the natural soil consisted of peaty organic soils. Site fill materials are quite heterogeneous in composition, with hydraulic conductivities estimated to range between approximately 0.5 and 50 feet/day.



Peat and organic deposits up to 30 feet thick underlie the fill layer across a majority of the Site. These deposits have historically been classified as soft to very soft in consistency and fine-grained to fibrous in texture. Based on observed recovery rates from several on-Site recovery wells, GZA believes that the peat and organic layer contributes less to the overall transmissivity of the water table aquifer than does the fill layer. Glacial till overlying argillite bedrock underlies the peaty organic and sand and gravel deposits at the Site.

Sand deposits were identified in the eastern portion of the Upland Area of the Site at approximately similar depths and thicknesses as the peaty organic deposits identified in the remainder of the Site.

Evaluation of Site groundwater flow data conducted as part of the Phase II assessment indicates that the Site groundwater flow under non-pumping conditions is to the south/southwest toward the On-Site Pond and Wetland Area. The depth to the water table on the Site is generally 1 to 15 feet below ground surface (bgs). Based on the results of piezometric surface elevation monitoring, the water table generally slopes at a gradient of approximately 0.048 feet/foot from Parcels 1 and 4 toward the Wetland Area.

2.20 DESCRIPTION OF IDENTIFIED IMPACTS

The following section presents a summary of the nature and extent of contamination across the Upland Area of the Site. Contamination has been detected in surficial and subsurface soils and groundwater. Historical aerial photographs of the area taken over a period of several decades prior to the Site's redevelopment show evidence of drums, aboveground storage tanks (ASTs), and lagoons across the southern portion of the Site (what is now referred to as the Upland Area) and adjacent to the Wetland Area. During the operation of the former waste oil facility, spills, leaks, and overfilling of the storage vessels and lagoons are believed to have occurred which resulted in the release of waste oil to the soil, groundwater, surface water, and sediment at the Site.

The impacted subsurface materials encountered during previous explorations at the Site have been characterized as heterogeneous fill deposits and/or reworked native deposits. Because of the heterogeneity of Site soils and the number and variety of potential sources across the Upland Area, SPH deposition was quite variable. Evidence of petroleum impacts (i.e., stained or soils partially saturated with SPH) were observed at most boring locations over varying intervals at depths ranging from 1 to 17 feet bgs. The primary transport mechanisms at the Site are groundwater and surface water. Groundwater flows to the south and discharges to the On-Site Pond. Historical Wetland Area soil and sediment impacts are suspected to be from the transport of SPH from the Upland Area to the Wetland Area via both subsurface migration (associated with groundwater/product movement) and overland flow/runoff (resulting from surface spills and potential overfilling events, and aided by surface water runoff).

One of the primary release mechanisms at the Site is the reported use of unlined lagoons for the storage of large volumes of waste oil, which most likely resulted in the semi-continuous lateral seepage of oil into surrounding soil (due to the porous nature of the



soils and the periodic surcharging of the lagoons). Due to the nature of the oil and the heterogeneous nature of the surrounding fill, the lateral seepage of oil would have been preferentially through the coarsest grained fill materials, within pockets and local discontinuous layers, resulting in a vertically and horizontally variable distribution around the lagoons.

2.30 REGULATORY STATUS

The Site is currently classified as Tier 1B pursuant to MassDEP's November 25, 2008 presumptive approval of an October 8, 2008 Tier Permit Extension request. Phase IV activities are being conducted in the Wetland Area of the Site.

On January 11, 2007, Duffy entered into an Administrative Consent Order (ACO) agreement with MassDEP. This ACO required a Response Action Outcome (RAO) Statement be submitted for the Site by August 16, 2008. A Class C-2 RAO was submitted to MassDEP on August 11, 2008.

Gauging of certain Upland Area monitoring wells has recently been conducted pursuant to a Release Abatement Measure (RAM) Plan. The gauging activities are being incorporated into Post-Class C RAO OMM activities pursuant to this Report. As a result, a RAM Completion Statement is being submitted concurrent with, but separate from, this Report.

Following the submittal of this Report to MassDEP, the Wetland Area of the Site will continue to be in Phase IV, and the Upland Area of the Site will be in Post-Class C RAO OMM.

3.00 AS BUILT CONSTRUCTION REPORT

Since the October 30, 2007 submittal of the Phase IV Remedy Implementation Plan (RIP) for the Upland Area to MassDEP, the following Upland Area activities have been performed:

- Initiation of Phase IV construction activities (November, 2007)
- Installation of 133 high vacuum extraction (HVE) recovery wells (November 2007 through February 2008)
- Installation of an approximately 800 foot long low permeability wall (March, 2008)
- Installation of a total of approximately 10,000 feet of subsurface piping and utilities (March 2008 through November 2008)
- Construction of an over 2,000 square foot treatment building addition and treatment system (March 2008 through November 2008)
- Submittal of partial Class C-2 Response Action Outcome Statement for Upland and Wetland Areas of Site (August 11, 2008)



- Submittal of Tier IB Permit Extension application (October 8, 2008)
- Substantial completion of Phase IV construction activities (December 2008)

In general, Phase IV construction activities were performed in substantial compliance with the Phase IV RIP. As-built documentation of the Phase IV construction, including as-built drawings and manufacturers cut sheets, are provided in the Post-Class C RAO OMM Plan, which is being submitted to MassDEP concurrent with the submittal of this Report.

Significant changes in Phase IV activities (since the submittal of the October 30, 2007 Phase IV RIP) as well as a summary of Phase IV remediation waste management activities are provided below.

3.10 SIGNIFICANT CHANGES IN PHASE IV ACTIVITIES

During the installation of subsurface utilities associated with the Recovery System, three sections of existing Site storm drain piping, two of which connect catch basins located in the southeastern portion of the property to the underground oil/water separator located north of the treatment building, were exposed. The locations of these pipes are shown in Figure C-2. The eastern line, constructed of 15-inch diameter corrugated steel line, was located near the water table interface and observed to contain numerous corrosion related holes. As a result, Duffy elected to remove this section of drain line and replace it with SDR35 plastic drain pipe with grout seals on the catch basin and oil/water separator connections. This work was performed between October 9, 2008 and November 5, 2008 by Cyn Environmental Services, Inc. (Cyn). The northern line, constructed of 6-inch diameter corrugated high density polyethylene (HDPE), was also located near the water table interface and was observed to be in good condition; however, the grout seal between the drain pipe and the drain pipe connection into the 15-inch line was incomplete. As a result, between October 9, 2008 and October 15, 2008, GZA removed and reset the drain pipe, and installed a new grout seal. The western line, constructed of 18-inch diameter reinforced concrete line, was located near the water table interface and observed to be in poor condition. Additionally, a section of the line needed to be temporarily removed and replaced for the installation of the low permeability wall. As a result, GZA elected to remove the drain line from the oil/water separator to the outfall structure and replace it with 18" SDR35 plastic drain pipe with gasketed seals on the outfall and oil/water separator connections. This work was performed between July 7, 2008 and July 15, 2008 by Cyn.

No other significant new information or changes to Phase IV activities were identified during Phase IV construction activities.

3.20 REMEDIATION WASTE MANAGEMENT

During Phase IV construction activities, a temporary groundwater treatment system consisting of a frac tank, bag filters, and liquid phase activated carbon was utilized to treat groundwater generated during trenching and well development activities. Treated groundwater was discharged to the On-Site Pond under a Notice of Change associated



with the existing Remediation General Permit (RGP). The Notice of Change was submitted by GZA on April 23, 2008 to the United States Environmental Protection Agency (USEPA) and is provided in Appendix H. Sampling and testing of the effluent from the temporary groundwater treatment system was performed in accordance with the requirements of the RGP. Testing results, as well as copies of communications between GZA and USEPA, are provided in Appendix C.

Excess excavate and spent liquid phase activated carbon generated during temporary groundwater treatment and the installation of the low permeability wall, treatment system building foundation construction, and subsurface utility installation was stockpiled on-Site. Following sampling and laboratory testing by GZA, these materials were disposed of off-Site. A total of 892.49 tons of soil was disposed of at Pinetree Landfill. Copies of laboratory testing results and the Bill of Lading for the soil disposed of at Pinetree Landfill are provided in Appendix D. Copies of laboratory testing results and hazardous waste manifests for the soil disposed of at Horizon Environmental Services are provided in Appendix E.

As part of Phase IV construction activities, the process equipment associated with the existing groundwater and SPH recovery system was decommissioned. Approximately 3,015 gallons of SPH removed from the existing SPH storage tank was disposed off-site at the Clean Harbors facility. Copies of the laboratory testing results and hazardous waste manifests are provided in Appendix E.

4.00 FINAL INSPECTION REPORT

The final inspection of Phase IV construction activities was performed by the LSP-of-Record, Mr. Albert Ricciardelli, on May 1, 2009. Phase V OMM activities are anticipated to begin in May 2009. Mr. Ricciardelli's certification of Phase IV construction activities is provided on the BWSC-108 form provided in Appendix A.

In summary, the following permits and/or approvals were required to perform the Phase IV construction activities and/or will be required to perform Post-Class C RAO OMM activities:

- Phase IV RIP submitted to MassDEP on October 30, 2007 and the Tier 1B Permit. A two year extension to the Tier 1B permit (expiration date August 16, 2010), was presumptively approved by MassDEP on November 25, 2008.
- City of Waltham Order of Conditions (OOC). The OOC was issued to Duffy on September 17, 2007. A copy of the OOC is provided in Appendix F.
- City of Waltham Building Permit. The final inspection associated with this permit was performed by the city of Waltham on May 23, 2008. A copy of the permit is provided in Appendix G.



- Remediation General Permit (RGP). A Notice of Change to the existing RGP for the final treatment system was submitted to USEPA on October 6, 2008 and was accepted without comment. A copy of the approval is provided in Appendix H.
- Post-Class C RAO OMM Plan. This Plan is being submitted to MassDEP concurrent with this Report.

5.00 PHASE IV COMPLETION REPORT

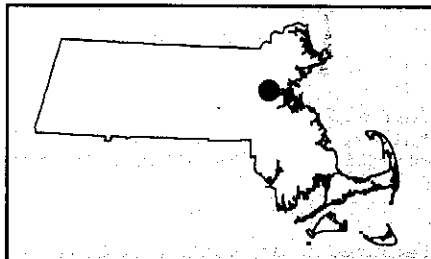
The Phase IV Completion Statement, executed by the LSP-of-Record, Mr. Albert Ricciardelli, is provided on the BWSC-108 form provided in Appendix A. Operation, maintenance, and monitoring of the recovery system will be performed as Post-Class C RAO activities. These activities will begin upon submittal of this Report to MassDEP and will be performed in accordance with the requirements of the OMM Plan.

6.00 PUBLIC INVOLVEMENT

In accordance with the MCP (310 CMR 40.0880), The City of Waltham's Chief Municipal Officer and Board of Health have been notified of the availability of this Phase IV Final Inspection Report, including information about how local officials may obtain a copy of the report. A copy of the Public Involvement Notice is included in Appendix I.



I:\12820\12820-90.PFS\Figures\GIS\MXD Documents\12820-90_F01_Site Locus.mxd



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
 SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF
 ENVIRONMENTAL AFFAIRS, MASSGIS. DISTRIBUTED JUNE, 2001.

Data Supplied by :



PROJ. MGR.: PFS
 DESIGNED BY: EMD
 REVIEWED BY: PFS
 OPERATOR: GAS

DATE: 02-13-2007

SITE LOCATION MAP
SHOWING 500 FOOT & 1/2 MILE RADII

411 WAVERLEY OAKS
 WALTHAM, MASSACHUSETTS

JOB NO.
 01.0012820.90

FIGURE NO.
1

SUPPLEMENTAL INFORMATION

Rear Area of Site, 411 Waverley Oaks Road (RTN 3-0010717)

EDR map ID
C15

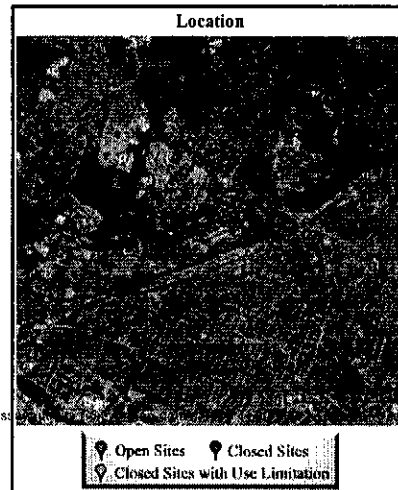
Site Information			
Site Number:	3-0010717	Category:	TWO HR
Site Name:	REAR AREA OF SITE	Release Type:	RAO
Address:	411 WAVERLEY OAKS RD	Current date:	5/20/1994
Town:	WALTHAM	Phase:	
Zipcode:	02154-0000	RAO class:	A2
Official notification date:	3/21/1994	Location type:	COMMERCIAL, WATERBODY
Initial status date:	3/21/1995	Source:	TANKER

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	5/20/1994
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	5/19/1994
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	iRA - Immediate Response Action
Status:	APORAL - Oral Approval of Plan or Action
Submittal Date:	3/21/1994
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	3/21/1994
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
PCB		
WATER	10	GAL
WATER	30	GAL

LSPs	
LSP#	Name
N/A	MCCARTHY, GERALD E

RAO Detail			
Class	Method	GW Category	Soil Category
A2	1	1	1



Imagery ©2009 DigitalGlobe, GeoEye, MassGIS, Commonwealth of Mass

SUPPLEMENTAL INFORMATION

Rear of Property, 411 Waverley Oaks Road (RTN 3-0025816)

EDR map ID
C19

Site Information			
Site Number:	3-0025816	Category:	TWO HR
Site Name:	REAR OF PROPERTY	Release Type:	RAONR
Address:	411 WAVERLY OAKS	Current date:	6/19/2006
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	
Official notification date:	4/14/2006	Location type:	COMMERCIAL, WATERBODY
Initial status date:	4/14/2007	Source:	UNKNOWN

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	PEREXT - Permit Extension Received
Submittal Date:	11/25/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/19/2006
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RAONR - RAO Not Required
Status:	RTCLSS - Linked to a Tier Classified Site
Submittal Date:	6/19/2006
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	4/14/2006
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
WATER		

LSPs	
LSP#	Name
8926	SHAW, MICHAEL M

Linked RTNs	
Primary RTN	Secondary RTNs
3-0000454	3-0025816

Tier Classification Detail						
NRS Totals	II	III	IV	V	VI	Zone 2 Imminent Hazard
546	270	156	35	85	0	N N

SUPPLEMENTAL INFORMATION

**Waltham Federal Center – Boiler Plant UST, 424 Trapelo Road (RTN 3-0006013)
(a.k.a. Waltham Federal Center)**

LUST EDR Name Waltham Federal Center

Site Information			
Site Number:	3-0006013	Category:	NONE
Site Name:	MURPHY FEDERAL CENTER - BOILER PLANT UST	Release Type:	RAO
Address:	424 TRAPELO RD	Current date:	3/15/2001
Town:	WALTHAM	Phase:	PHASE IV
Zipcode:	02154	RAO class:	C1
Official notification date:	1/24/1994	Location type:	FEDERAL
Initial status date:	1/24/1995	Source:	UST
Click Here for File Viewer			

EDR Map
ID D20

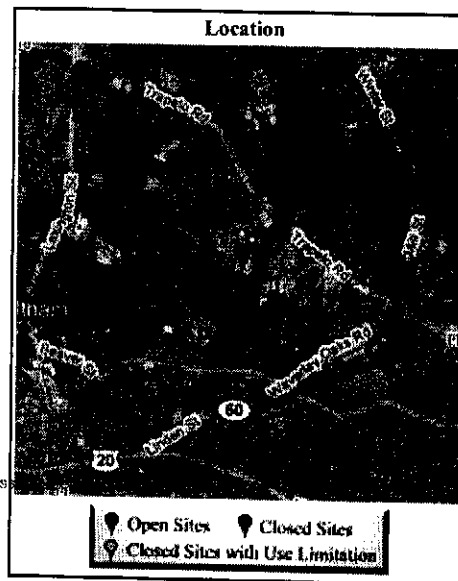
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	IMRCDD - Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date:	6/1/2009
RAO class:	C1
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	PHSIII - Phase 3
Status:	CSRCVD - Completion Statement Received
Submittal Date:	3/13/2001
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	2/27/2001
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/19/2000
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	REVRCD - Revised Statement or Transmittal Received
Submittal Date:	11/3/1999
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	7/16/1998
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	TCTRNS - Tier Classified Transition Sites
Submittal Date:	1/24/1994
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
PETROLEUM		

LSPs	
LSP#	Name
9654	BILLA, MICHAEL E
4058	STONE, ALTON D

RAO Detail			
Class	Method	GW Category	Soil Category
C1	1	3	3

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
237	35	87	30	85	0	N	N



Printable Interactive Map



Property Information

Prop ID R035 007 015A
Location 371 FOREST ST
Owner BENTLEY COLLEGE
Billing Address 175 FOREST STREET
City, State Zip WALTHAM, MA 02452-6322
Legal Ref. Date 11/9/2001
Sale Price \$1
Lot Size 22.29217



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

The City of Waltham makes no claims, no representations, and no warranties, expressed or implied, concerning the validity (expressed or implied), the reliability, or the accuracy of the GIS data and GIS data products furnished by the Town, including the implied validity of any uses of such data. The use of this data, in any such manner, shall not supercede any federal, state or local laws or regulations.





May 14, 2009

Mr. J. Michael Harrington
Property Manager
U.S. General Services Administration
GSA Public Buildings Service – New England Region
Ten Causeway Street, Room 985
Boston, MA 02222
michael.harrington@gsa.gov

**Re: Letter Report of Post Response Action Outcome Monitoring – Year Seven, Event One
April 2009 Ground-Water Gauging
Murphy Federal Center, Former Boiler Plant Underground Storage Tanks
424 Trapelo Road
Waltham, MA 02154
MA DEP RTN 3-6013
ADVENT Project No. 07-551**

Dear Mr. Harrington:

ADVENT Environmental Inc. (ADVENT), in conjunction with Bradburne, Briller & Johnson, LLC (BB&J), is pleased to provide the United States General Services Administration (GSA) with this *Letter Report of Post Response Action Outcome (RAO) Monitoring (Letter)* for the Murphy Federal Center located at 424 Trapelo Road, Waltham, Massachusetts (the Site). Our work was performed in accordance with the scope of work outlined in the Request for Quote ID: RFQ227943 issued by the GSA on August 14, 2007.

The Site – i.e., the vicinity of two underground storage tanks which were removed in 1993 – is currently undergoing periodic monitoring every six months pursuant to the Massachusetts Contingency Plan (MCP) as administered by the Massachusetts Department of Environmental Protection (MA DEP). A Temporary Solution and Class C RAO were originally prepared by Rizzo Associates, Inc. on behalf of the GSA. BB&J is continuing the periodic monitoring and observation plan of the Temporary Solution. On April 8, 2009, BB&J conducted monitoring well gauging, and pavement, and overburden soil monitoring as part of the Post-RAO Plan. This Letter provides documentation and results of this gauging and monitoring event.

Year Seven, Event One Activities

On April 8, 2009, the depths to nonaqueous phase liquid (NAPL)¹ and groundwater within 31 monitoring wells located at the Subject Property were gauged. Measurements were obtained using a Testwell interface probe. A site plan showing monitoring well locations is included in Attachment A. Monitoring well MW 102 was unable to be gauged due to a damaged well casing.

¹ Based on historical information obtained from *Periodic Review of Temporary Solution*; Rizzo Associates, Inc., report dated June 8, 2007 the petroleum product is No. 4 and/or No.6 heating oil.

NAPL was detected in six monitoring wells: MW-105; MW-108; MW-110; MW-205, MW-214 and MW-214A. Several wells were checked with a bailer due to the possibility of a NAPL sheen detected by the interface probe. Upon rechecking of the monitoring wells (MW-109; MW-202; MW-203; MW-204; MW-206; MW-209; MW-211; MW-212; and, MW-213), NAPL or sheen was not visible or detected. Ground-water gauging data and NAPL thickness measurements including the April 8, 2009 gauging measurements are presented in Table 1 (Attachment B). A summary of the monitoring well conditions is presented on the Monitoring Well Condition Form in Attachment C. Based on the April 8, 2009 gauging data:

- Ground-water depths ranged from 10.00 feet to 21.63 feet below ground surface (bgs) with ground-water flow direction interpreted to be towards the south-southwest.
- NAPL continues to be present in each of the monitoring wells that previously contained NAPL (MW-105, MW-108, MW-110, MW-205 and MW-214 and MW-214A). Within both MW-214 and MW-214A, NAPL was visible on the sides of the well casings at the top of the wells.
- NAPL thicknesses within the six monitoring wells ranged from 0.01 feet to 1.98 feet. Monitoring well MW-105 contains the most NAPL, measured at 1.98 feet.
- Notable changes in NAPL thicknesses were observed in three monitoring wells between the October 23, 2008 and April 8, 2009 gauging events:

Monitoring well MW-105 (shallow), showed a slight decrease from 2.46 feet thick in October 2008 to 1.98 feet thick in April 2009. The 2.46 feet of NAPL measured in October 2008 was the largest thickness detected in this well. This is the most up-gradient well and the data indicates that significant NAPL may be present at and just downgradient from the former tank pit.

Monitoring well MW-108 (bedrock), showed a significant decrease from 1.37 feet thick in October 2008 to 0.72 feet thick in April 2009. This well has shown considerable fluctuation in NAPL thickness and these values are in the range of those previously detected in the well.

Monitoring well MW-110 (bedrock), showed an increase from 1.03 thick feet in October 2008 to 1.58 feet thick in April 2009. This well has shown considerable fluctuation in NAPL thickness and these values are in the range of those previously detected in the well.

- The most significant NAPL encountered is present in the overburden aquifer at the location of monitoring well MW-105. Downgradient, NAPL is most prevalent in the bedrock monitoring wells – MW-108, MW-110 and MW-205. Based on information obtained from *Periodic Review of Temporary Solution* by Rizzo Associates Inc. report dated June 8, 2007, data suggest NAPL has migrated along the shallow bedrock surface to depths of approximately ten to fourteen feet below ground surface and has impacted shallow bedrock at depths of fourteen to twenty feet below ground surface by entering probable small and discontinuous bedrock fractures. The presence of NAPL being most prevalent in these three down-gradient bedrock monitoring wells may be explained by the water table in the shallow wells being at or near the top of the bedrock surface.

- NAPL was **not** observed within the other down-gradient perimeter monitoring wells: MW-201; MW-202; MW-203; MW-204; MW-206; MW-207; MW-208; MW-209; MW-210; MW-212; MW-213; MW-215; MW-216; MW 217; MW-218; and, MW-219.

Following monitoring well gauging, the soil and pavement surfaces within the former UST area and monitoring well network were visually scanned for the presence of petroleum oil. Petroleum product was not observed on the soil surfaces or in soil filled cracks in the pavement. Photographs of the paved and soil surfaces are provided in Attachment D.

Conclusions

The April 2009 gauging data indicate the continued presence of NAPL in the monitoring wells within the area in which it was originally detected – i.e. the Approximate Extent of Separate Phase Oil (NAPL) boundary as depicted on the figure in Attachment A – and that the NAPL thicknesses fluctuates between gauging rounds. Conditions at the Site are similar to those observed during previous monitoring events and the NAPL plume, while showing temporal variation in thickness between gauging events, appears to be spatially stable.

The next monitoring well gauging and soil overburden and pavement monitoring event will be completed in approximately six months.

We appreciate the opportunity to provide the GSA with our environmental consulting services. If you have any questions or require additional information, please call.

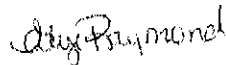
Sincerely,



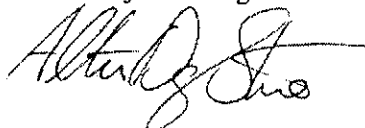
Tracy A. Dionne, BB&J
Staff Geologist



Paul C. Owens, L.P.G., BB&J
Principal



Edye Raymond, ADVENT
Project Manager

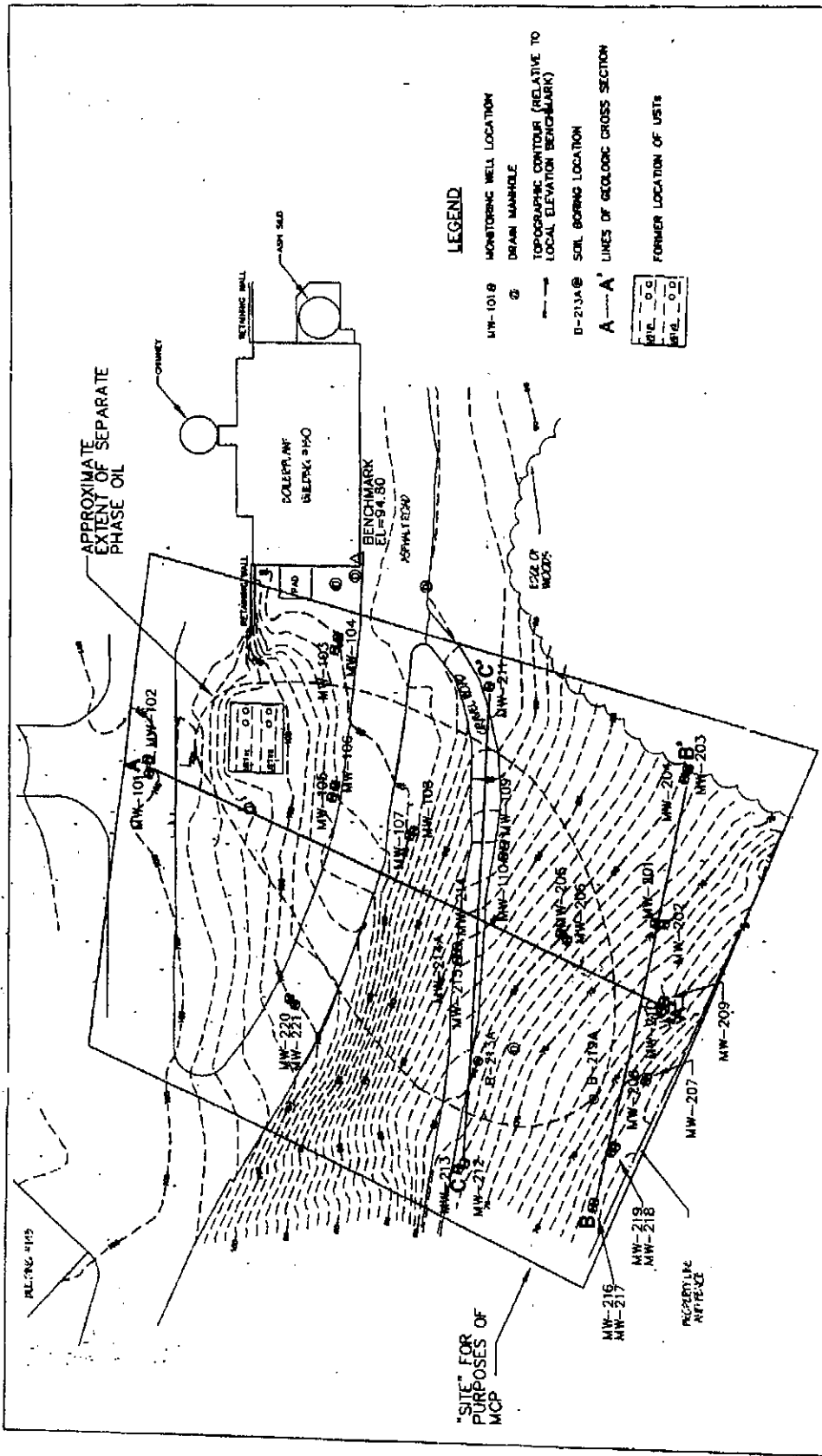


Alton D. Stone
LSP No. 4058

Murphy Federal Center, Waltham, MA
ADVENT Project No. 07-551

Post RAO Monitoring Letter
May 14, 2009

ATTACHMENT A
SITE MAP



LEGEND

- MW-101.8 MONITORING WELL LOCATION
- DRAIN MANHOLE
- TOPOGRAPHIC CONTOUR (RELATIVE TO LOCAL ELEVATION BENCHMARK)
- B-213A SOIL BORING LOCATION
- A---A' LINES OF GEOLOGIC CROSS SECTION
- FORMER LOCATION OF USTs

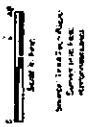
1.0	0.0	0.0
1.0	0.0	0.0
1.0	0.0	0.0

Soiler Plant UST Area
 Murphy Federal Center, Bldg. 150
 424 Trapelo Road, Wellesley, MA

Site Plan with Lines of
 Geologic Cross Section



TETRA TECH RIZZO



Scale: 1" = 10'
 North: True North
 Datum: NAD 83
 Projection: UTM
 Zone: 18N

APPROXIMATE
 EXTENT OF
 SEPARATE
 PHASE OIL

SOLENOID
 (ELEVATION 94.50)

BENCHMARK
 EL=94.50

"SITE" FOR
 PURPOSES OF
 MCP

PROPERTY
 BOUNDARY

DATE: 11/11/03

ATTACHMENT B

TABLE 1: GAUGING DATA

Table 1: Monitoring Well Gauging Data ^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-101	Shallow	11/06/07	9:42	NP	14.75	NP	Top of monitoring well casing is 3.6 ft below top of metal outer protective well casing (needs repair).
		4/24/08	13:02	NP	14.02	NP	Measured from top of metal outer protective well casing. 3.6 feet was subtracted from depth to water measurement.
		10/23/08	13:30	NM	NM	NM	Unable to gauge well. Debrns and/or rock blocking well casing opening.
		04/8/09	11:39	NP	13.38		Measured from top of metal outer protective well casing. 3.6 feet was subtracted from depth to water measurement.
MW-102	Bedrock	11/06/07	9:52	NM	NM	NM	Unable to access interior of well due to damaged casing. See Well Condition Survey Form.
		4/24/08	13:01	NM	NM	NM	Monitoring well casing damaged. Unable to gauge.
		10/23/08	13:28	NM	NM	NM	Monitoring well casing damaged. Unable to gauge.
		04/8/09	11:40	NM	NM	NM	Monitoring well casing damaged. Unable to gauge.
MW-103	Shallow	11/06/07	11:47	NP	17.48	NP	
		04/24/08	12:45	NP	17.34	NP	
		10/23/08	13:14	NP	17.62	NP	
		04/8/09	11:52	NP	17.03	NP	
MW-104	Bedrock	11/06/07	11:45	NP	NW	NP	Well dry. Depth to bottom 9.82 ft.
		04/24/08	12:53	NP	NW	NP	Well dry. Depth to bottom 9.66 ft.
		10/23/08	13:11	NP	NW	NP	Well dry. Depth to bottom not measured.
		04/8/09	11:30	NP	NW	NP	Well dry. Depth to bottom 9.75 ft.

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-105*	Shallow	11/00	--	--	--	0.01	
		12/00	--	--	--	0.02	
		01/01	--	--	--	0.14	
		05/01	--	--	--	0.08	
		06/01	--	--	--	0.11	
		09/01	--	--	--	0.36	
		11/01	--	--	--	0.91	
		04/02	--	--	--	0.41	
		07/02	--	--	--	0.84	
		10/02	--	--	--	0.60	
		03/03	--	--	--	0.21	
		08/03	--	--	--	2.25	
		03/04	--	--	--	1.41	
		06/04	--	--	--	1.42	
		11/04	--	--	--	1.55	
		12/05	--	--	--	1.47	
		11/06/07	15:44	18.52	20.53	2.01	
		11/20/07	16:08	17.21	19.08	1.87	
		04/24/08	13:34	15.37	17.34	1.97	
		10/23/08	14:52	16.85	19.31	2.46	Significant increase in NAFL thickness
		04/08/09	13:22	15.06	17.04	1.98	

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-106	Bedrock	11/06/07	10:08	NP	NW	NP	Well dry. Depth to bottom 14.52 ft.
		04/24/08	13:30	NP	13.33	NP	
		10/23/08	13:18	NP	15.76	NP	
		04/08/09	11:48	NP	13.00	NP	
MW-107	Shallow	11/06/07	10:15	NP	17.53	NP	
		04/24/08	14:01	NP	17.34	NP	
		10/23/08	12:21	NP	17.46	NP	
		04/08/09	11:22	NP	17.45	NP	
MW-108*	Bedrock	11/00	--	--	--	0.01	
		12/00	--	--	--	0.20	
		1/01	--	--	--	NP	
		5/01	--	--	--	0.08	
		6/01	--	--	--	0.11	
		9/01	--	--	--	1.33	
		11/01	--	--	--	2.41	
		04/02	--	--	--	1.41	
		07/02	--	--	--	1.30	
		10/02	--	--	--	1.05	
		03/03	--	--	--	1.03	
		08/03	--	--	--	1.64	
03/04	--	--	--	1.00			
06/04	--	--	--	0.91			
11/04	--	--	--	0.77			

Acronyms and Notes on last page of table.

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-108*	Bedrock	12/05	--	--	--	NM	
		11/06/07	15:08	21.94	22.99	1.05	
		11/20/07	13:27	20.05	22.89	2.84	
		04/24/08	14:06	19.66	19.84	0.18	
		10/23/08	13:51	21.60	22.97	1.37	Significant increase in NAPL thickness.
		04/08/09	13:00	20.91	21.63	0.72	
		11/06/07	10:29	NP	16.56	NP	
		04/24/08 ³	9:16	15.865	15.87	0.005	Product not previously detected in well.
		10/23/08	10:12	NP	16.13		Sheen on water possible; detected by probe. Will re-gauge well.
MW-109	Shallow	10/23/08	10:15	NP	16.13	NP	Re-gauged well. No sheen or NAPL detected by probe.
		04/08/09	9:50	NP	15.96	NP	Collected water sample with bailer; not visible sheen observed.
		11/00	--	--	--	0.36	
		12/00	--	--	--	0.75	
MW-110*	Bedrock	01/01	--	--	--	0.01	
		05/01	--	--	--	0.01	
		06/01	--	--	--	0.01	
		09/01	--	--	--	0.14	
		11/01	--	--	--	1.33	
		04/02	--	--	--	0.35	
		07/02	--	--	--	0.42	
		10/02	--	--	--	0.44	
		03/03	--	--	--	0.27	

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-110*	Bedrock	08/03	--	--	--	1.41	
		03/04	--	--	--	0.08	
		06/04	--	--	--	0.06	
		11/04	--	--	--	0.06	
		12/05	--	--	--	0.04	
		11/6/07	14:32	16.56	17.82	1.26	Difficulty in accurately measuring product thickness.
		11/20/07	15:23	17.15	17.36	0.21	
		04/24/08	11:55	16.05	16.20	0.15	
		10/23/08	14:18	16.59	17.62	1.03	Significant
		04/08/09	12:32	15.99	17.57	1.58	Increase in NAPL thickness.
MW-201	Bedrock	11/06/07	11:12	NP	16.36	NP	
		04/24/08	10:37	NP	13.93	NP	
		10/23/08	9:52	NP	15.03		Sheen on water possible; detected by probe. Will re-gauge.
		10/23/08	11:28	NP	15.02	NP	Re-gauged well, no NAPL detected by probe.
		04/08/09	9:14	NP	13.77	NP	
		11/06/07	11:14	NP	17.42	NP	
MW-202	Shallow	04/24/08	10:33	NP	13.42	NP	
		10/23/08	9:58	NP	14.62		Sheen on water possible; detected by probe. Will re-check.
		10/23/08	11:20	NP	14.62	NP	Re-gauged well, inserted bailer into well to obtain water sample; no sheen visible.
		04/08/09	9:17	NP	13.28		Collected sample with bailer; no visible sheen observed.

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-203	Bedrock	11/06/07	11:51	NP	13.99	NP	
		4/24/08	10:42	NP	13.30	NP	
		10/23/08	10:02	NP	13.84	NP	Sheen on water possible; detected by probe. Will recheck
		10/23/08	11:17	NP	NM	NP	Collected water sample with bailer, no visible sheen.
		04/08/09	10:07	NP	12.09	NP	Collected sample with bailer; no visible sheen observed.
		11/05/07	11:53	NP	13.69	NP	
MW-204	Shallow	04/24/08	10:45	NP	13.54	NP	
		10/23/08	9:57	NP	12.60	NP	Sheen on water possible; detected by probe. Will re-check
		10/23/08	11:19	NP	NM	NP	Collected water sample with bailer, no visible sheen.
		04/08/09	10:04	NP	12.40	NP	Collected sample with bailer; no visible sheen observed.
		11/00	--	--	--	NP	
		12/00	--	--	--	NP	
MW-205*	Bedrock	01/01	--	--	--	0.01	
		05/01	--	--	--	0.04	
		06/01	--	--	--	0.05	
		09/01	--	--	--	0.06	
		11/01	--	--	--	0.41	
		4/02	--	--	--	2.05	
		7/02	--	--	--	2.12	
		10/02	--	--	--	1.72	
		03/03	--	--	--	2.34	
		08/03	--	--	--	2.52	

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-205*	Bedrock	03/04	--	--	--	1.83	
		06/04	--	--	--	2.11	
		11/04	--	--	--	2.00	
		12/05	--	--	--	1.20	
		11/06/07	11:59	20.6	19.69	0.91	
		11/20/07	15:46	17.99	18.93	0.94	
		4/24/08	11:02	14.78	14.82	0.04	
		10/23/08	14:33	15.60	16.95	1.35	Significant increase in NAPL thickness.
		04/08/09	12:47	14.94	16.30	1.36	
		11/06/07	11:17	NP	17.14	NP	
MW-206	Shallow	04/24/08	10:58	NP	14.70	NP	
		10/23/08	12:40	NP	15.76	NP	
		04/08/09	11:02	NP	14.95	NP	Collected sample with bailer; no visible sheen observed.
		11/06/07	10:59	NP	12.62	NP	
MW-207	Bedrock	04/24/08	10:17	NP	10.39	NP	
		10/23/08	9:21	NP	11.09		Sheen on water possible; detected by probe. Will re-check.
		10/23/08	10:52	NP	NM	NP	Collected water sample with bailer, no visible sheen.
		04/08/09	9:07	NP	11.46	NP	
		11/06/07	11:01	NP	15.21	NP	
		04/24/08	10:20	NP	12.19	NP	
MW-208	Shallow	10/23/08	9:18	NP	13.42	NP	Sheen on water possible; detected by probe. Will re-check
		10/23/08	10:45	NP	13.42	NP	Re-gauged and collected water sample with bailer, no visible sheen
		04/08/09	9:05	NP	11.83	NP	

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-209	Bedrock	11/06/07	11:05	NP	20.10	NP	
		04/24/08 ³	10:24	15.13	15.135	0.005	Product not previously detected in well.
		10/23/08	9:30	NP	16.48	NP	
		04/08/09	9:12	NP	14.75		Collected sample with bailer; no visible sheen observed.
MW-210	Shallow	11/06/07	11:08	NP	18.77	NP	
		04/24/08	10:30	NP	14.85	NP	
		10/23/08	9:27	NP	15.63	NP	Sheen on water possible; detected by probe. Will re-check
		10/23/08	11:35	NP	15.63	NP	Re-gauged and Collected water sample with bailer, no visible sheen
MW-211	Bedrock	04/08/09	9:08	NP	14.82	NP	
		11/06/07	10:22	NP	17.67	NP	
		4/24/08 ³	9:10	16.645	16.65	0.005	Product not previously detected in well.
		10/23/08	10:58	NP	17.29	NP	
MW-212	Shallow	04/08/09	8:52	NP	10.62	NP	
		11/06/07	10:42	NP	18.10	NP	
		04/24/08	9:41	NP	9.98	NP	
		10/23/08	12:28	NP	NW	NM	Well Dry. Depth to bottom not measured.
MW-213	Bedrock	04/08/09	9:39	NP	10.01	NP	Collected sample with bailer; no visible sheen observed.
		11/06/07	10:40	NP	NW	NP	Well dry. Assumed depth to bottom of MW is 16.85 with sediment.
		04/24/08	9:48	NP	17.84	NP	Previous depth to bottom of monitoring well incorrectly measured. Depth to bottom is 26.99 feet.
		10/23/08	12:32	NP	17.61	NP	
04/08/09	9:42	NP	NP	17.31	NP	Collected sample with bailer; no visible sheen observed.	

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-214*	Shallow	11/00	--	--	--	NP	
		12/00	--	--	--	0.01	
		01/01	--	--	--	NP	
		05/01	--	--	--	NP	
		06/01	--	--	--	NP	
		09/01	--	--	--	0.15	
		11/01	--	--	--	0.16	
		04/02	--	--	--	0.43	
		7/02	--	--	--	0.62	
		10/02	--	--	--	0.33	
		3/03	--	--	--	0.45	
		8/03	--	--	--	0.61	
		3/04	--	--	--	0.07	
		6/04	--	--	--	0.29	
		11/04	--	--	--	0.10	
		12/05	--	--	--	0.11	
		11/6/07	12:38	18.52	18.54	0.20	
		11/20/07	14:49	15.30	15.31	0.01	
		04/24/08	11:40	NP	13.82	NP	
		10/23/08	14:46	NP	14.42	NP	NAPL visible in well casing but not detected in water by interface probe.
		04/08/09	9:47	14.11	14.12	0.01	NAPL visible in well casing.

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-214 A	Shallow	11/06/07	10:35	NP	16.87	NP	
		04/24/08 ³	11:33	14.28	14.29	0.01	Product not previously detected in well.
		10/23/08	12:49	NP	14.88	NP	but not detected in water by interface probe.
MW-215	Bedrock	04/08/09	9:47	14.61	14.62	0.01	NAPL visible in well casing.
		11/06/07	10:37	NP	18.39	NP	
		04/24/08	9:27	NP	16.10	NP	
MW-216	Shallow	10/23/08	12:46	NP	16.28	NP	
		04/08/09	9:43	NP	15.73	NP	
		11/06/07	10:47	NP	12.49	NP	
		04/24/08	9:06	NP	8.80	NP	
		10/23/08	9:05	NP	10.49		Sheen on water possible; detected by probe. Will recheck
MW-217	Bedrock	10/23/08	11:39	NP	10.49	NP	Re-gauged / collected water sample with bailer, no visible sheen.
		04/08/09	8:52	NP	10.62	NP	
		11/06/07	10:50	NP	14.81	NP	
		04/24/08	10:02	NP	9.96	NP	
		10/23/08	9:02	NP	11.90		Sheen on water possible; detected by probe. Will recheck
MW-218	Shallow	10/23/08	10:30	NP	11.90	NP	Re-gauged / collected water sample with bailer, no visible sheen.
		04/08/09	8:55	NP	8.43	NP	
		11/06/07	10:52	NP	15.17	NP	
		04/24/08	10:11	NP	11.61	NP	
		10/23/08	9:14	NP	13.14	NP	
04/08/09	9:02	NP	11.30				

Table 1: Monitoring Well Gauging Data^{1,2}

Well ID	Shallow/ Bedrock	Date	Time	Depth to Product	Depth to Water	Product Thickness	Comments
MW-219	Bedrock	11/06/07	10:55	NP	13.86	NP	
		04/24/08	10:08	NP	10.17	NP	
		10/23/08	9:11	NP	11.85	NP	
		04/08/09	8:57	NP	10.04		
MW-220	Shallow	11/06/07	10:02	NP	20.5	NP	
		04/24/08	13:20	NP	20.57	NP	
		10/23/08	13:22	NP	22.39	NP	
		04/08/09	11:33	NP	20.31	NP	
MW-221	Bedrock	11/06/07	9:59	NP	22.45	NP	
		04/24/08	13:17	NP	19.68	NP	
		10/23/08	13:25	NP	21.28	NP	
		04/08/09	11:36	NP	19.93	NP	

Table 1: Monitoring Well Gauging Data^{1,2}

Acronyms & Notes:

- : data not available
- * : Free product has been previously found in well.
- MW: monitoring well
- NM: not measured
- NP: no product in well
- NW: no water in well

- 1 : All measurements taken from top of monitoring well casing unless otherwise noted with a Solinst interface probe, Model 122, Heron Interface Probe. Model HO11/SM07L or a Testwell oil water meter.
- 2 : Solinst interface probe is same as one previously used for measurements; however, tape now has kinks and bends in tape. Tape was recalibrated with standard measuring tape to obtain correct gauging data measurements.
- 3 : On June 24, 2008, monitoring wells MW-109, MW-209, MW-211 and MW-214A were re-gauged and water samples were obtained with polyethylene bailers to confirm the absence of NAPL.

Prepared By/Date: IAD / 04.23.09
Checked By/Date: PCQ / 05.14.09

ATTACHMENT C
MONITORING WELL CONDITION FORM

WELL CONDITION SURVEY FORM

Project Name: <u>GSA - Waltham, MA</u>		Date: <u>4/8/2009</u>						
Project Number: <u>10108-0270801</u>		Completed By: <u>Tracy Dionne</u>						
WELL IDENTIFICATION	Concrete Pad	Surface Seal	Manhole Cover	Post Cover	Well Cap	Lock	Well Riser	RECOMMENDATIONS FOR REPAIR (i.e. what repair is needed/replacement?)
MW-101	NA	NA	NA	*	G	G	G	Post cover is not secured to outer casing. Casing is broken at ground surface.
MW-102	NA	NA	NA	G	F	F	*	Protective steel casing and PVC well casing bent at 45° angle. Probe could not access well. Need to reset well and protective casing.
MW-103	NA	NA	NA	G	G	G	G	
MW-104	NA	NA	NA	G	G	G	G	
MW-105	NA	NA	NA	G	G	G	*	PVC well casing broken within protective steel casing. Need to remove protective casing and reset well and steel casing.
MW-106	NA	NA	NA	F	*	G	G	Locking mechanism on well cap broken. Needs replacement. Replaced well cap 1/1/20/07.
MW-107	NA	NA	NA	G	G	G	G	
MW-108	NA	NA	NA	G	G	G	G	
MW-109	NA	NA	NA	G	G	G	G	Replaced well cap 1/1/20/07.
MW-110	NA	NA	NA	G	G	G	G	
MW-201	NA	NA	NA	G	G	G	G	
MW-201	NA	NA	NA	G	G	G	G	
MW-203	NA	NA	NA	G	G	G	G	
MW-204	NA	NA	NA	G	G	G	G	
MW-205	NA	NA	NA	G	G	G	G	Replaced missing well cap 1/1/20/07.
MW-206	NA	NA	NA	G	G	G	G	
MW-207	NA	NA	NA	G	G	G	G	
MW-208	NA	NA	NA	G	G	G	G	
MW-209	NA	NA	NA	G	G	G	G	

WELL CONDITION SURVEY FORM

Project Name: <u>GSA - Waltham, MA</u>		Date: <u>4/8/2009</u>						
Project Number: <u>10108-0270801</u>		Completed By: <u>Tracy Dionne</u>						
WELL IDENTIFICATION	Concrete Pad	Surface Seal	Manhole Cover	Post Cover	Well Cap	Lock	Well Riser	RECOMMENDATIONS FOR REPAIR (i.e. what repair is needed/replacement?)
MW-210	NA	NA	NA	G	G	G	G	
MW-211	NA	NA	NA	G	G	G	G	
MW-212	NA	NA	NA	G	G	G	G	
MW-213	NA	NA	NA	G	G	G	G	
MW-214	NA	NA	NA	G	G	G	G	
MW-214A	NA	NA	NA	G	G	G	G	
MW-215	NA	NA	NA	G	G	G	G	
MW-216	NA	NA	NA	G	G	G	G	
MW-217	NA	NA	NA	G	G	G	G	
MW-218	NA	NA	NA	G	G	G	G	
MW-219	NA	NA	NA	G	G	G	G	
MW-220	*	NA	NA	*	G	G	*	Post cover will not lock properly. Protective steel casing and PVC well broken at ground surface. Both need repair.
MW-221	NA	NA	NA	*	G	G	G	Post cover is not secured to outer casing - casing is warped. Possibly need new steel protective casing.

KEY:
 N: New
 G: Good
 F: Fair
 * : Needs Repair
 NA: Not Applicable

Prepared By/Date: IAD / 04-23-09
 Checked By/Date: FCO / 05-14-09

*Murphy Federal Center, Waltham, MA
ADVENT Project No. 07-551*

*Post RAO Monitoring Letter
May 14, 2009*

ATTACHMENT D
SITE PHOTOGRAPHS



Photograph No. 1 – View of Paved and Soil Surfaces Facing West.



Photograph No. 2 – North Facing View of Soil Surface in Vicinity of Monitoring Wells
MW-105 and MW-106.



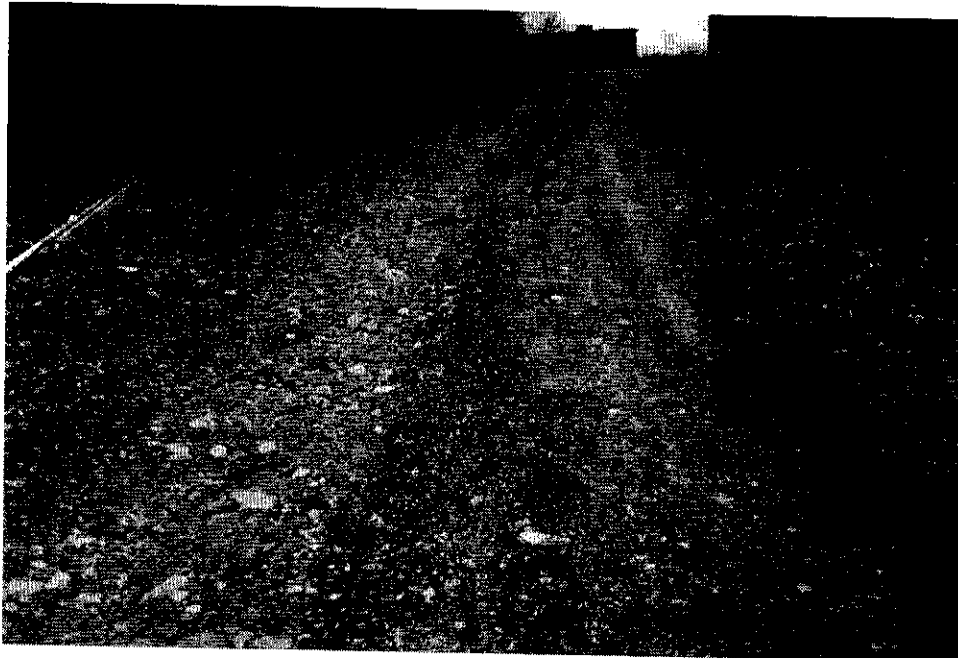
Photograph No. 3 – View of Soil Surface in Vicinity of Monitoring Wells
MW-107 and MW-108.



Photograph No. 4 – Northeast View of Unpaved Area in the Vicinity of Monitoring Wells
MW 105 and MW-106.



Photograph No. 5 – View of Soil Surface South of Monitoring Wells MW-105 and MW-106.



Photograph No. 6 –View of Soil Surface Facing West.

SUPPLEMENTAL INFORMATION

Murphy Federal Center Boiler Plant, 424 Trapelo Road (RTN 3-0017581)

~~EDR~~
EDR map ID
D 20

Site Information			
Site Number:	3-0017581	Category:	72 HR
Site Name:	MURPHY FEDERAL CTR BOILER PLANT	Release Type:	RAO
Address:	424 TRAPELO RD	Current date:	3/15/2001
Town:	WALTHAM	Phase:	
Zipcode:	02154-0000	RAO class:	C1
Official notification date:	11/16/1998	Location type:	FEDERAL
Initial status date:	11/16/1999	Source:	UNKNOWN

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	TSEVAL - Periodic Review Opinion Evaluating Temporary Solution
Submittal Date:	5/3/2002
RAO class:	C1
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCDV - Completion Statement Received
Submittal Date:	2/27/2001
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RAONR - RAO Not Required
Status:	RTCLSS - Linked to a Tier Classified Site
Submittal Date:	11/3/1999
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	SOW - Scope of Work Received
Submittal Date:	2/10/1999
RAO class:	
Activity & Use Limitation:	

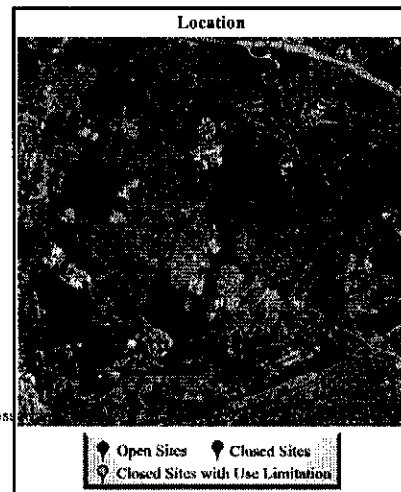
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	2/10/1999
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	11/16/1998
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
#4 FUEL OIL	5	INCH
NAPL	4	INCH

LSPs	
LSP#	Name
9654	BILLA, MICHAEL E

RAO Detail			
Class	Method	GW Category	Soil Category
C1	1	3	3



SUPPLEMENTAL INFORMATION

FC Murphy Federal Center, 424 Trapelo Road (RTN 3-0018887)

Site Information			
Site Number:	3-0018887	Category:	120 DY
Site Name:	FC MURPHY FEDERAL CENTER	Release Type:	RAO
Address:	424 TRAPELO RD	Current date:	2/21/2001
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	A2
Official notification date:	10/18/1999	Location type:	
Initial status date:	10/18/2000	Source:	

EDR map ID
D21

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	FEEREF - Fee Not Required - Fee Refunded - TFS Use Only
Submittal Date:	2/26/2001
RAO class:	A2
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	RAM - Release Abatement Measure
Status:	CSRCVD - Completion Statement Received
Submittal Date:	2/21/2001
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/18/1999
RAO class:	
Activity & Use Limitation:	

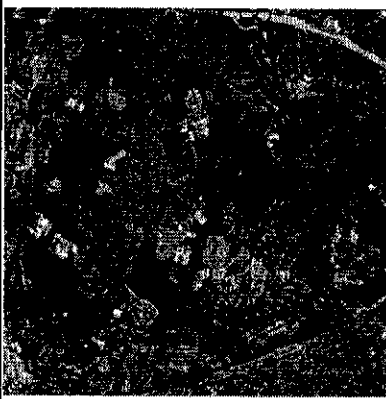
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/18/1999
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
2-METHYLNAPHTHALENE		
BENZO(A)ANTHRACENE	2.1	PPM
BENZO(A)PYRENE	2	PPM

LSPs	
LSP#	Name
2841	BURGESS, P DOUGLAS

RAO Detail			
Class	Method	GW Category	Soil Category
A2	3	3	1

Location



- Open Sites
- Closed Sites
- Closed Sites with Use Limitation

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SUPPLEMENTAL INFORMATION

Shell Branded Gasoline Station, 225 Waverley Oaks Road (RTN 3-0027761)

EDR Map ID

24

Site Information			
Site Number:	3-0027761	Category:	120 DY
Site Name:	SHELL BRANDED GASOLINE STATION	Release Type:	TIERII
Address:	225 WAVERLY OAKS RD	Current date:	5/18/2009
Town:	WALTHAM	Phase:	PHASE II
Zipcode:	02452-0000	RAO class:	
Official notification date:	6/12/2008	Location type:	
Initial status date:	6/12/2009	Source:	
Click Here for File Viewer			

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	LEGNOT - Legal Notice Published
Submittal Date:	5/19/2009
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCDV - Completion Statement Received
Submittal Date:	5/18/2009
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	PHASII - Phase 2
Status:	SOW - Scope of Work Received
Submittal Date:	5/18/2009
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	6/12/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	6/12/2008
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
C5 THRU C8 ALIPHATIC HYDROCARBONS	4520	UG/L
C9 THRU C10 AROMATIC HYDROCARBONS	11600	UG/L
MTBE	18600	UG/L

Tier Classification Detail						
NRS Totals	II	III	IV	V	VI	Zone 2 Imminent Hazard
237	60	102	15	60	0	N N



LEGEND

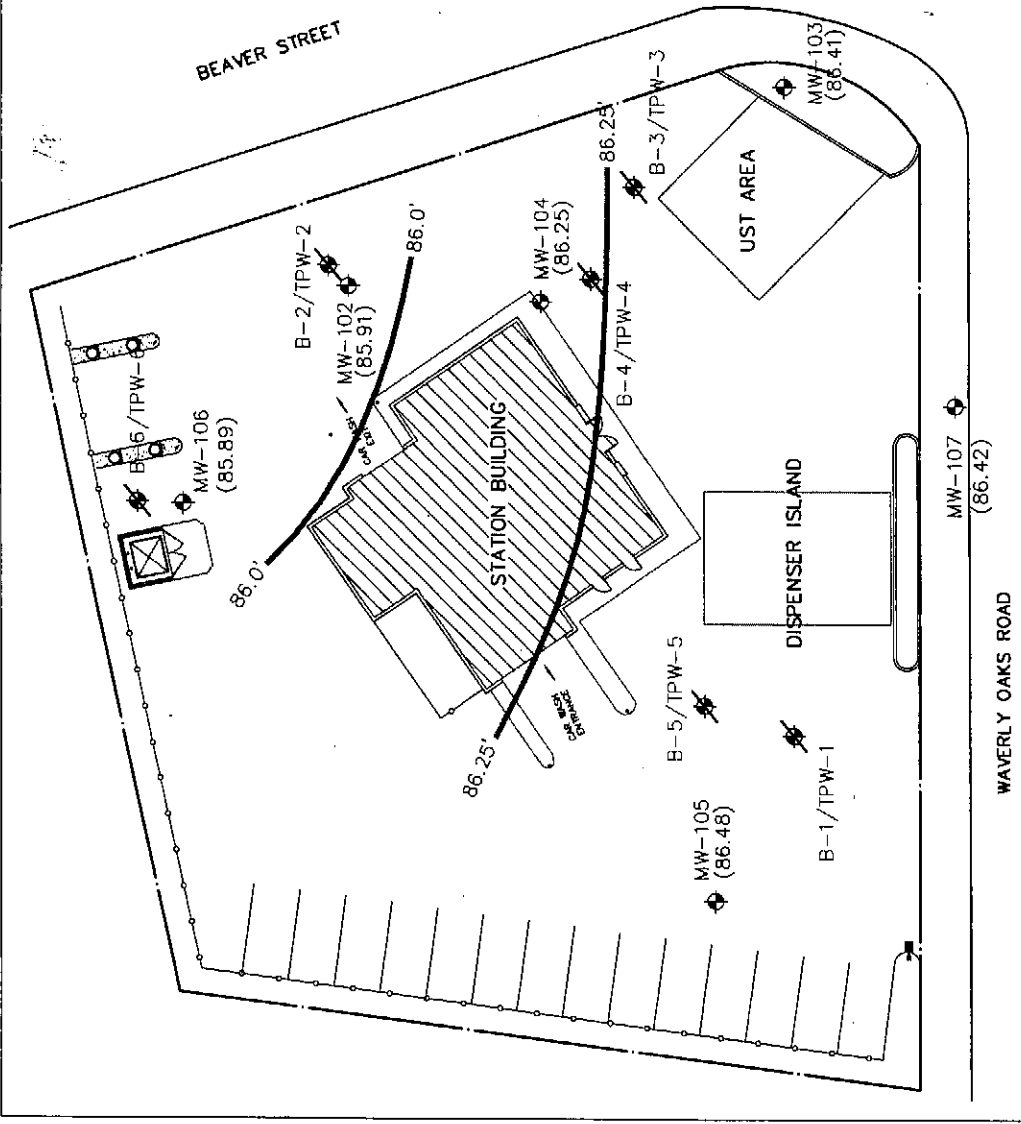
- MW-102 MONITORING WELL
- PROPERTY BOUNDARY (APPROX)
- B-6/TPW-6 BORING/TEMPORARY MONITORING WELL (DESTROYED)
- 86.0' GROUNDWATER CONTOUR FROM 3/5/08 GAUGING EVENT
- (85.91) GROUNDWATER ELEVATION FROM 3/5/08 GAUGING EVENT

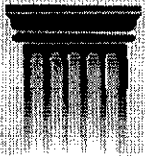


FIGURE 3

GROUNDWATER FLOW
 MARCH 5, 2009
 SHELL-BRANDED SERVICE STATION
 LOCATED AT
 225 WAVERLY OAKS ROAD
 WALTHAM, MA

PREPARED FOR
 MOTIVA ENTERPRISES, LLC
 ON 03/07/2009 | PLANNED BY
 SOVEREIGN CONSULTING, INC.
 9650 SOUTH MAIN STREET
 MANSFIELD, MA 02048
 TEL: (508) 398-3200 FAX: (508) 398-3248





SOVEREIGN CONSULTING INC.

Environmental services executed safely and consistently...

PHASE I INITIAL SITE INVESTIGATION, TIER CLASSIFICATION, AND PHASE II SCOPE OF WORK

Shell-Branded Service Station
225 Waverly Oaks Road
Waltham, MA 02452
SAP #137873

MassDEP RTN 3-27761

Prepared for:

MOTIVA ENTERPRISES LLC
PMB 301, 1830 SOUTH ROAD, UNIT 24
WAPPINGERS FALLS, NY 12590

Prepared by:

Sovereign Consulting Inc.
4 Open Square Way, Suite 307
Holyoke, MA 01040

May 14, 2009

Project Number: EQ654

Disposal (TSD) Facilities, RCRA - Large-Quantity Generators (LQGs) facilities, RCRA - Small-Quantity Generators (SQGs) facilities, UST facilities, and others. A complete listing of databases was searched and search distances are provided within the report. A copy of the database search report is provided as Attachment B. A summary of nearby Massachusetts-listed disposal sites and/or CERCLIS/RCRA/TSD facilities is provided in the sections below. On-site listings are summarized in subsection 5.1. Properties located within approximately 575 feet of the site are summarized in subsections 5.2 and 5.3.

5.1 On-Site Listings

The site was identified on the Spills, RCRA Generators, and UST databases, listed as 225 and 227 Waverly Oaks Road (Shell Service Station 137873/Gas Station/Shell-Branded Gasoline Station/Motiva Enterprises LLC).

* The site is identified on the Spills database for an apparent release of "Gasoline 150 Gal" resulting from a "Gas Pump" on February 15, 1996, to which the MassDEP subsequently assigned RTN 3-13458 to this incident. According to the FSTC report, Immediate Response Actions (IRAs) were conducted and a ClassA-2 Response Action Outcome (RAO) was submitted to the MassDEP on February 18, 1997 (see Section 4.2).

5.2 Waverly Oaks and Beaver Road, Waltham, MA

The property located at "Waverly Oaks and Beaver Rd." abuts the facility to the west and is identified on the Spills database (ID#N84-0681) for a release of less than 50 gallons of transformer oil on October 13, 1984. According to the FSTC report, the status of this incident is closed. No further information regarding this incident was included within the FSTC report.

5.3 110 Beaver Street, Waltham, MA

The property located at 110 Beaver Street (Former George More Facility) is located approximately 575 feet southeast, hydraulically downgradient of the facility, and is identified on the Institutional Controls, State, and Spills databases.

This property is identified on the Spills database (RTN 3-2923) for a release of "Unknown Chemical of Unknown Type." A Phase I/Tier Classification was performed in August 1998. Release Abatement Measure (RAM) activities were conducted in 1999. A Phase II CSA was completed in October 1999. A Class A-3 RAO was completed in June 2002, and an Activity and Use Limitation (AUL) was filed.

This property is identified on the Spills database (RTN 3-17435) for a release of "Cyanide 2,400 mg/Kg" from a floor sump on October 14, 1998. The release is listed by MassDEP as a two-hour release condition, resulting in Immediate Response Actions (IRA). An IRA Completion Statement/RNF was submitted to MassDEP in December 1998, and linked this RTN to the primary RTN 3-2923.

This property is identified on the Spills database (RTN 3-17779) for a release of "Benz[a]anthracene 2.35 mg/kg" in addition to EPH hydrocarbon fractions.

SUPPLEMENTAL INFORMATION

University of Massachusetts, 225-227 Beaver Street (RTN 3-0028049)

U-MASS Waltham, 240 Beaver Street (RTN 3-0028048)

U-MASS Waltham, 240 Beaver Street (RTN 3-0028050)



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE
205B Lowell Street, Wilmington, MA 01887 • (978) 694-3200

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Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

MassDEP NERO FACSIMILE
TRANSMITTAL FORM

TO:

Date: 7/24/09
Attention: Gretchen Fedor
Company Name: Techlaw Inc
Company Fax Number: 978.275.9489
Company Phone Number: 978.275.9730 x203

FROM:

DEP Contact Person: Ethan Gould
DEP Bureau: BWSC Data Mgmt
Contact Telephone: 978.694.3351
Comments:
RNF's attachments as requested
PLUS RNF for 3-28050 270 SEMERST
RAM Plan for 3-28050 is available for
review on site file viewer -EG

Transmittal Form plus 10 pages.

To report transmission problems call the DEP CONTACT PERSON.

FAX Number for MassDEP NERO is 978-694-3499



UNIVERSITY OF MASSACHUSETTS
AMHERST
117 Draper Hall
40 Campus Center Way
Amherst, MA 01003-9244

ENVIRONMENTAL HEALTH & SAFETY

Email: tbechta@ehs.umass.edu
Voice: 413.577.3632
Fax: 413.577.3634

RECEIVED

October 2, 2008

OCT 06 2008

MassDEP Northeast Region DEP
205B Lowell Street
Wilmington, MA 01887
NORTHEAST REGIONAL OFFICE

RE: Release Notifications for University of Massachusetts Waltham Agricultural Station
3-28048 , 3-28049 & 3-28050

To Whom It May Concern:

Attached please find the following Release Notification Forms for the University of Massachusetts Waltham Agricultural Station, located at 225-227 Beaver Street, Waltham Massachusetts.

1. Oil Release	3-28048	240 BEAVER ST	
C9-C18 Aliphatics	3150 mg/Kg		RCS-1 (1000mg/Kg)
C11-C22 Aliphatics	1510 mg/Kg		RCS-1 (1000mg/Kg)
C9-C18 Aliphatics	5.5 mg/L		RCGW-2 (5.0 mg/L)
2. Heavy Metals	3-28050	240 BEAVER ST	
Cadmium	40.9 mg/Kg		RCS-1
Chromium	92.8 mg/Kg		RCS-1
Lead	3770 mg/Kg		RCS-1
Arsenic	23.2 mg/Kg		RCS-1
3. Heavy Metals	3-28049	225-227 BEAVER ST	
Cadmium	9.1 mg/Kg		RCS-1
Chromium	37.5 mg/Kg		RCS-1
Lead	1520 mg/Kg		RCS-1

If you have any questions please feel free to contact me at 413-577-3632.

Respectfully submitted,

Theresa W. Bechta, REM, TURP
Assistant Director for Environmental and Hazardous Materials Management

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103

J.K

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28049

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: University of Massachusetts Waltham Agricultural Station

2. Street Address: 225-227 Beaver Street

3. City/Town: Waltham

4. ZIP Code: _____

5. UTM Coordinates: a. UTM N: _____ b. UTM E: _____

B. THIS FORM IS BEING USED TO: (check one)

1. Submit a Release Notification

2. Submit a Revised Release Notification

3. Submit a Retraction of a Previously Reported Notification of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

1. Date and time of Oral Notification, if applicable: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

2. Date and time you obtained knowledge of the Release or TOR: 06/05/2008 Time: 08:00 AM PM
mm/dd/yyyy hh:mm

3. Date and time release or TOR occurred, if known: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

Check all Notification Thresholds that apply to the Release or Threat of Release:
(for more information see 310 CMR 40.0310 - 40.0315)

4. 2 HOUR REPORTING CONDITIONS

5. 72 HOUR REPORTING CONDITIONS

6. 120 DAY REPORTING CONDITIONS

a. Sudden Release

b. Threat of Sudden Release

c. Oil Sheen on Surface

d. Poses Imminent Hazard

e. Could Pose Imminent Hazard

f. Release Detected in Private Well

g. Release to Storm Drain

h. Sanitary Sewer Release (Imminent Hazard Only)

a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch

b. Underground Storage Tank (UST) Release:

c. Threat of UST Release

d. Release to Groundwater near Water Supply

e. Release to Groundwater near School or Residence

f. Substantial Release Migration

a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)

b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards

c. Release of Oil to Groundwater Exceeding Reportable Concentration(s)

d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch

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**RELEASE NOTIFICATION & NOTIFICATION
 RETRACTION FORM**

Release Tracking Number

3 - 28049

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

O or HM Released	CAS Number, if known	O or HM	Amount or Concentration	Units	RCs Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)
Cadmium		HM	9.1	MG/KG	RCS-1
Chromium		HM	37.5	MG/KG	RCS-1
Lead		HM	1,520	MG/KG	RCS-1

8. Check here if a list of additional Oil and Hazardous Materials subject to reporting is attached

D. PERSON REQUIRED TO NOTIFY:

1. Check all that apply: a. change in contact name b. change of address c. change in the person notifying

2. Name of Organization: University of Massachusetts

3. Contact First Name: Theresa 4. Last Name: Bechta

5. Street: 360 Campus Center Way 6. Title: Asst Dir, Environmental Mgmt

7. City/Town: Amherst 8. State: MA 9. ZIP Code: 01003-9248

10. Telephone: (413) 577-2298 11. Ext.: _____ 12. FAX: _____

13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE:

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter

e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(f))

4. Any Other Person Otherwise Required to Notify Specify Relationship: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

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RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28049

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, Theresa Bechta, attest under the pains and penalties of perjury (I) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this (transmittal) form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: John V Bechta Signature 3. Title: Asst Dir. Environmental Mgmt

4. For: The University of Massachusetts 5. Date: 09/30/2008
(Name of person or entity recorded in Section D) mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

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J.R.

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28048

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: University Of Massachusetts Waltham Agricultural Station

2. Street Address: 240 Beaver Street

3. City/Town: Waltham

4. ZIP Code: _____

5. UTM Coordinates: a UTM N: 4694600 b. UTME: 0317698

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B. THIS FORM IS BEING USED TO: (check one)

- 1. Submit a Release Notification
- 2. Submit a Revised Release Notification
- 3. Submit a Retraction of a Previously Reported Notification of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

- 1. Date and time of Oral Notification, if applicable: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm
- 2. Date and time you obtained knowledge of the Release or TOR: 06/05/2008 Time: 08:00 AM PM
mm/dd/yyyy hh:mm
- 3. Date and time release or TOR occurred, if known: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

Check all Notification Thresholds that apply to the Release or Threat of Release:
(for more information see 310 CMR 40.0310 - 40.0315)

- | | | |
|--|--|---|
| <p>4. 2 HOUR REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. Sudden Release <input type="checkbox"/> b. Threat of Sudden Release <input type="checkbox"/> c. Oil Sheen on Surface Water <input type="checkbox"/> d. Poses Imminent Hazard <input type="checkbox"/> e. Could Pose Imminent Hazard <input type="checkbox"/> f. Release Detected In Private Well <input type="checkbox"/> g. Release to Storm Drain <input type="checkbox"/> h. Sanitary Sewer Release (Imminent Hazard Only) | <p>5. 72 HOUR REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch <input type="checkbox"/> b. Underground Storage Tank (UST) Release <input type="checkbox"/> c. Threat of UST Release <input type="checkbox"/> d. Release to Groundwater near Water Supply <input type="checkbox"/> e. Release to Groundwater near School or Residence <input type="checkbox"/> f. Substantial Release Migration | <p>6. 120 DAY REPORTING CONDITIONS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s) <input type="checkbox"/> b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards <input type="checkbox"/> c. Release of Oil to Groundwater Exceeding Reportable Concentration(s) <input type="checkbox"/> d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch |
|--|--|---|

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**RELEASE NOTIFICATION & NOTIFICATION
 RETRACTION FORM**

Release Tracking Number

3 - 28048

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

O or HM Released	CAS Number, if known	O or HM	Amount or Concentration	Units	RCs Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)
C9-C18 Aliphatics		Oil	3,150	mg/Kg	RCS-1 (1,000 mg/Kg)
C11-C22 Aromatics		Oil	1,510	mg/Kg	RCS-1 (1,000 mg/Kg)
C9-C18 Aliphatics		Oil	5.5	mg/L	RCGW-2 (5.0 mg/L)

8. Check here if a list of additional Oil and Hazardous Materials subject to reporting is attached.

D. PERSON REQUIRED TO NOTIFY:

1. Check all that apply: a. change in contact name b. change of address c. change in the person notifying

2. Name of Organization: University Of Massachusetts

3. Contact First Name: Theresa 4. Last Name: Bechta

5. Street: 360 Campus Center Way 6. Title: Asst Dir. Environmental Management

7. City/Town: Amherst 8. State: MA 9. ZIP Code: 01003-9248

10. Telephone: 413-577-2298 11. Ext.: _____ 12. FAX: _____

13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE:

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter

e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Otherwise Required to Notify Specify Relationship: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28048

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, Theresa Bechta, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: [Signature] Signature 3. Title: Asst Dir. Environmental Mgmt

4. For: The University of Massachusetts 5. Date: 09/30/2008
(Name of person or entity recorded in Section D) mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103 JN

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number
3 - 28050

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: University of Massachusetts Waltham Agricultural Station

2. Street Address: 240 Beaver Street

3. City/Town: Waltham

4. ZIP Code: 02451-2454

5. UTM Coordinates: a. UTM N. _____ b. UTM E. _____

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B. THIS FORM IS BEING USED TO: (check one)

- 1. Submit a Release Notification
- 2. Submit a Revised Release Notification
- 3. Submit a Retraction of a Previously Reported Notification of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

1. Date and time of Oral Notification, if applicable: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

2. Date and time you obtained knowledge of the Release or TOR: 06/05/2008 Time: 08:00 AM PM
mm/dd/yyyy hh:mm

3. Date and time release or TOR occurred, if known: _____ Time: _____ AM PM
mm/dd/yyyy hh:mm

Check all Notification Thresholds that apply to the Release or Threat of Release:
(for more information see 310 CMR 40.0310 - 40.0315)

4. 2 HOUR REPORTING CONDITIONS. 5. 72 HOUR REPORTING CONDITIONS 6. 120 DAY REPORTING CONDITIONS

- | | | |
|---|--|--|
| <input type="checkbox"/> a. Sudden Release | <input type="checkbox"/> a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch | <input checked="" type="checkbox"/> a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s) |
| <input type="checkbox"/> b. Threat of Sudden Release | <input type="checkbox"/> b. Underground Storage Tank (UST) Release | <input type="checkbox"/> b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards |
| <input type="checkbox"/> c. Oil Sheen on Surface Water | <input type="checkbox"/> c. Threat of UST Release | <input type="checkbox"/> c. Release of Oil to Groundwater Exceeding Reportable Concentration(s) |
| <input type="checkbox"/> d. Poses Imminent Hazard | <input type="checkbox"/> d. Release to Groundwater near Water Supply | <input type="checkbox"/> d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch |
| <input type="checkbox"/> e. Could Pose Imminent Hazard | <input type="checkbox"/> e. Release to Groundwater near School or Residence | |
| <input type="checkbox"/> f. Release Detected in Private Well | <input type="checkbox"/> f. Substantial Release Migration | |
| <input type="checkbox"/> g. Release to Storm Drain | | |
| <input type="checkbox"/> h. Sanitary Sewer Release (Imminent Hazard Only) | | |

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NORTHEAST REGIONAL OFFICE



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28050

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

O or HM Released	CAS Number, If known	O or HM	Amount or Concentration	Units	RCs Exceeded, If Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)
Cadmium		HM	40.9	MG/KG	RCS-1
Chromium		HM	82.8	MG/KG	RCS-1
Lead		HM	3,770	MG/KG	RCS-1
Arsenic		HM	23.2	MG/KG	RCS-1

8. Check here if a list of additional Oil and Hazardous Materials subject to reporting is attached.

D. PERSON REQUIRED TO NOTIFY:

1. Check all that apply: a. change in contact name b. change of address c. change in the person notifying

2. Name of Organization: University of Massachusetts

3. Contact First Name: Theresa 4. Last Name: Bechta

5. Street: 360 Campus Center Way 6. Title: Asst Dir Environmental Mgmt

7. City/Town: Amherst 8. State: MA 9. ZIP Code: 01003-9248

10. Telephone: (413) 577-2298 11. Ext.: _____ 12. FAX: _____

13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE:

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter
 e. Other RP or PRP Specify: _____

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Otherwise Required to Notify Specify Relationship: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC103

RELEASE NOTIFICATION & NOTIFICATION
RETRACTION FORM

Release Tracking Number

3 - 28050

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, Theresa Behta, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: Theresa Behta Signature 3. Title: Asst Dir Environmental Mgmt

4. For: The University of Massachusetts (Name of person or entity recorded in Section D) 5. Date: 09/30/2008 mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section D.

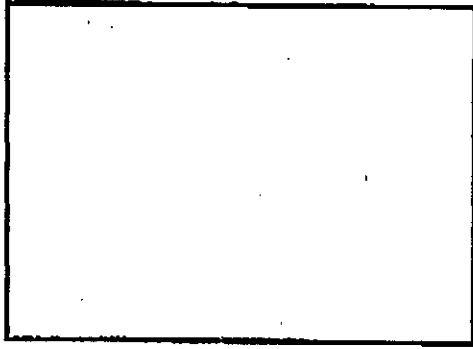
7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)



SUPPLEMENTAL INFORMATION

UMASS Amherst Agricultural Center, 240 Beaver Street (RTN 3-0015883)
(a.k.a. U-Mass Waltham)

EDR Name U-Mass Waltham

LUST

EDR map ID J41

Site Information			
Site Number:	3-0015883	Category:	TWO HR
Site Name:	UMASS AMHERST AGRICULTURAL CENTER	Release Type:	RAO
Address:	240 BEAVER ST	Current date:	12/26/2001
Town:	WALTHAM	Phase:	PHASE II
Zipcode:	02154-0000	RAO class:	A2
Official notification date:	1/6/1998	Location type:	STATE
Initial status date:	1/6/1999	Source:	UST

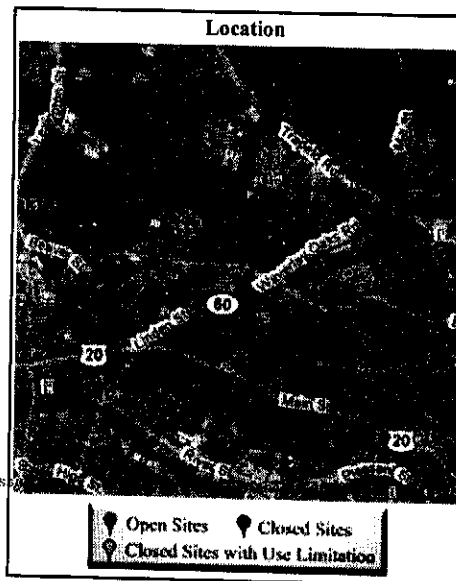
Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	12/26/2001
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	1/6/1999
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	TIERII - Tier 2 Classification
Submittal Date:	1/6/1999
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	11/9/1998
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	2/23/1998
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	1/6/1998
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	1/6/1998
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
GASOLINE	93	GAL
GASOLINE	139	PPMV

LSPs	
LSP#	Name
8493	KLINGLER, BRIAN F
7220	KOWALSKI, RICHARD G
4058	STONE, ALTON D

RAO Detail			
Class	Method	GW Category	Soil Category
A2	1	2	3

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
243	60	98	30	55	0	N	N





588 Silver Street, Agawam, MA 01001 tel 413.789.3530 fax 413.789.2776 www.ecsconsult.com

Massachusetts Department of
Environmental Protection
Bureau of Waste Site Cleanup
Attention: Joanne Fagan
Northeast Regional Office
205B Lowell Street
Wilmington, MA 01887

May 19, 2009
Project No. 01-207783
Document No. 37609

RE: Release Abatement Measure Plan
Agricultural Experiment Station
Parcel 1
240 Beaver Street
Waltham, Massachusetts
RTN 3-28050

Dear Ms. Fagan:

A Release Abatement Measure Plan (RAM Plan) has been prepared by Environmental Compliance Services, Inc. (ECS), on behalf of the University of Massachusetts (UMass) for the above-referenced location herein referred to as the Site. The RAM Plan has been prepared in accordance with the requirements of 310 CMR 40.0444, the Massachusetts Contingency Plan (MCP).

The Potentially Responsible Party (PRP) and contact for the Site is:

University of Massachusetts
Contact: Theresa Behta
Physical Plant Building
360 Campus Center Way
Amherst, MA 01003-9248
(413) 577-2298

The Licensed Site Professional for the Site is:

Bruce Tease, PhD, PG, LSP #4275
Environmental Compliance Services, Inc.
588 Silver Street
Agawam, MA 01001
(413) 789-3530

1.0 RELEASE OF OHM, SITE CONDITIONS AND SURROUNDING RECEPTORS

1.1 Release of Oil and Hazardous Materials (OHM)

A Phase I Environmental Site Assessment was completed by ECS on the UMass Agricultural Experiment Station property located at 240 Beaver Street in Waltham, MA in January 2007. A site locus map is presented as Figure 1.

The historical spreading of sludge and fly ash was identified as a recognized environmental condition warranting further inquiry. ECS conducted subsurface investigations in 2008 which included the collection of soil samples in the vicinity of the sludge and fly ash disposal area. Lead, chromium, cadmium and arsenic were identified in surficial soils at levels exceeding Reportable Concentrations and the Massachusetts Department of Environmental Protection (MassDEP) was notified of the 120 day release condition on October 6, 2008.

Historical information was obtained indicating that the United States Environmental Protection Agency (US EPA), the MassDEP (previously known as the Department of Environmental Quality and Engineering) and the Town of Waltham participated in a research project known as the Phoenix Project where municipal sewage sludge and fly ash were spread in upland and wetland areas at the Waltham facility to determine its potential impact on the growth of vegetation. Parcel 1 of the facility was the site of the upland research area, and Parcel 2, located at 225-227 Beaver Street (north of Parcel 1 across Beaver Street) was the site of the wetland fly ash research area (the wetland area is treated as a separate release condition under Release Tracking Number 3-28049 and is not the subject of this RAM Plan.

1.2 Site Conditions

Facility personnel familiar with the sludge and fly ash locations showed ECS the subject areas. The sludge and fly ash areas on Parcel were slightly raised in elevation. The fly ash area was also visually denoted by fly ash debris. Four soil samples were collected at the 0-6 inch depth range in the fly ash area (samples FAP1 A through D) on June 5, 2008. The sample location FAP1-A also included the collection of soil at the 18-24 inch depth range. Cadmium, total chromium and lead were detected at concentrations exceeding RCs in each 0-6 inch soil sample. The deeper sample (18-24 inches) collected at FAP1-A did not exceed metal RCS-I standards. Arsenic was also detected in the 0-6 inch soil sample collected at FAP1-D (23.2 mg/kg). EPH fractions and/or target analytes were not detected in the fly ash field area above laboratory minimum reportable detection limits (RDLs).

On August 8, 2008, ECS requested reanalysis of fly ash sample FAP1-D-0-6" for TCLP metals to determine if soils would be classified as hazardous materials (for disposal purposes). Arsenic, barium, cadmium and lead were detected at 0.0150 mg/l, 1.27 mg/l, 0.260 mg/l and 4.15 mg/l, respectively. Since the hazardous waste thresholds for these metals are 5, 100, 1 and 5 mg/l, respectively, the disposal of the fly ash material will likely be acceptable as non-hazardous waste. Analytical results are summarized in Table 1 along with natural and coal ash background concentrations, MCP Method 1 Risk Characterization standards and TCLP standards for RCRA Metals and EPH Fraction and Target analytes.

Six soil samples were collected at the 0-6 inch depth range and the 6-12 inch depth range in the sludge field located south of the fly ash field (see Figure 4). The soil samples (SLDG-A, D and G) were submitted for laboratory analysis of EPH fractions and RCRA 8 Metals. No EPH compounds were detected above laboratory RDLs and metal concentrations were consistent with background concentrations. Results are summarized in Table 2. Based on the results of this testing, no further action was considered warranted at the sludge field.

The fly ash field is estimated to extend over a 75 foot by 75 foot area (5,600 square feet). The volume of soils to be removed is estimated to be approximately 420 cubic yards, using an average depth estimate of 2 feet. Since the extent of soil excavation will be determined in the field based on XRF screening with laboratory confirmatory testing at the limit of excavation, the volume of soils to be removed may vary from this estimate.

ECS installed a temporary snow fence around the fly ash area on September 8, 2008, and coordinated the installation of a wire mesh fence, which was completed by Ideal Fence Company of Watertown, MA on October 10, 2008.

1.3 Surrounding Receptors

Parcel 1 of the Waltham Agricultural Experiment Station consists of two multistory office and classroom buildings, Greenhouses, a small laboratory building (Corn Lab) and a boiler house. Agricultural fields located south of the above noted structures, which abut Beaver Street, occupy the majority of Parcel 1. The fly ash area is located in the southeast portion of Parcel 1 approximately 200 feet south of the nearest structure (i.e. Corn Lab and associated greenhouses). The buildings are in the process of being shut down and no student or professor related work is being conducted at the site. A non-profit farming group currently is involved with growing crops throughout the majority of the Parcel 1 fields, except for the area in the vicinity of the sludge and fly ash areas.

The land bordering the fly ash area consists of woodlands to the north, east and south and agricultural fields to the west. Further east is an athletic field known as Warren Field. Further west are the athletic fields of Bentley College. A site plan showing the features of Parcel 1 is presented as Figure 2.

Parcel 1 is serviced by municipal sewer and drinking water services. The boiler house is currently fueled by natural gas but was formerly fueled by heating oil. All underground storage tanks have been removed from Parcel 1. A release of oil was identified at the boiler house in 2008 and is treated as a separate release under Release Tracking Number 3-28048 and is not the subject of this RAM Plan. Groundwater flow is estimated to be in a southwesterly direction and occurs at a depth of approximately 9-10 feet based on subsurface investigations conducted east of the greenhouses. Groundwater investigations have not been conducted in the immediate vicinity of the fly ash area given that the depth of impact soil is limited to 1-2 feet and that groundwater is approximately 9-10 feet below ground surface. Subsurface investigations conducted in the fly ash field located on Parcel 2 demonstrated similar concentrations of heavy metals. Existing groundwater monitoring wells installed as part of the Phoenix Project were gauged and sampled to facility laboratory analysis of dissolved phase metals. Depth to groundwater was

approximately 3-4 feet and no metals were detected above RCs in the groundwater samples analyzed. This information is used to support the opinion that groundwater at the fly ash area of Parcel 1 is not considered to be impacted by the infiltration of heavy metals via precipitation, and therefore groundwater investigations are not warranted. In the event heavy metal impacted soils are found at greater depths than previously investigations depict, groundwater monitoring may be warranted depending upon the depth of the impact soils.

The site is not located in a potentially productive aquifer area and no known drinking water wells are located within 500 feet of the site. No sensitive ecological receptors are located on or in the immediate vicinity of Parcel 1. Wetlands are located on Parcel 2 upgradient of Parcel 1. The nearest surface water body to the Site is Beaver Brook which flows to the southwest, approximately 875 feet south of the fly ash area, before discharging into Lyman Pond located approximately 3,000 feet west of the fly ash area.

Soil and groundwater categories at the site are considered to be S-1 and GW-3, respectively.

2.0 RAM PLAN OBJECTIVES AND PROPOSED IMPLEMENTATION SCHEDULE

The purpose of this RAM is to remove heavy metal impacted soil in the fly ash area on Parcel 1, herein referred to as the Disposal Site, to levels approaching and/or consistent with background concentrations. The intent is to achieve a Permanent Solution without reliance on Activity and Use Limitations (AUL) to maintain a level of No Significant Risk with regards to soil under current and future conditions at the Disposal Site. At the completion of the RAM, a Response Action Outcome Statement shall be filed with the MassDEP prior to the one year deadline of October 6, 2009 for Tier Classification and the submittal of a Phase 1 Initial Site Investigation Report. A fee of \$800 is required pursuant to 310 CMR 40.0444(2) given that the RAM Plan is being submitted prior to Tier Classification.

2.1 RAM Plan

The remedial approach planned to address the presence of heavy metals in surface soils at the Disposal Site involves soil excavation and confirmatory analysis of soil samples using a combination of field screening and fixed laboratory analytical methods. The vertical extent of contaminated soil is not expected to be exceed 2 feet.

Due to the groundwater depth of 9-10 feet and the limited presence of soil contamination to the 2 foot depth range, groundwater is not considered to be impacted nor encountered during soil excavation and therefore will not be of concern to this RAM Plan.

Details of the remedial actions proposed under this RAM Plan are presented below.

Task I - Dig Safe Notification

The Disposal Site is secured by a moveable chain link fence. All work is anticipated to occur within this enclosure which meets the requirements of the recently imposed trench excavation regulations.

Task II - Soil Excavation and Air Monitoring

The area of impacted soil is estimated to be 5,600 square feet (75 feet by 75 feet) and the maximum depth is estimated to be 2 feet based on the 2008 investigations. The total volume of impacted soil to be excavated (based on this information) is estimated to be 420 cubic yards or 630 tons.

ECS will oversee the soil excavation to be completed by TMC of Bilingham, MA. Excavated material shall be stockpiled on 6 mil polysheeting spread in the north end of the fence enclosure. The soil stockpile will be covered with 6 mil polysheeting at the end of the day of excavation.

ECS shall conduct air monitoring during soil excavation activities using a Mini Rae dust monitor supplemented with a personal pump operated at 2 liters/minute. Based on a lead concentration of 3,000 mg/kg in soil at the Site, and an action level for lead in air of 30 ug/m³, excavation activities shall be halted in the event dust levels of 1 mg/m³ are detected by the Mini Rae dust monitor. This level of dust is considered to contain 3 ug/m³ of lead, approximately 10 times below the action level. Water, which is available on site, will be used to create a spray in the event site conditions warrant such control measures. If dust levels can not be reduced below 1 mg/m³, level C PPE shall be implemented by excavator and support staff including half face air purifying respirator supplied with HEPA filters. The APR provides protection up to 500 ug/m³ of lead, which would be protective up to 170 mg/m³ of total dust.

Task III - Soil Screening and Post Excavation Confirmatory Testing

An XRF Analyzer equipped with a lead lamp shall be used by an ECS certified technician to field screen soil samples collected to direct the excavation of impacted soil. Soil collected from the excavator bucket teeth (representative of material obtained at greatest depth) shall be placed in quart size zip lock bags and screened in triplicate so that an average value can be generated per sample. The removal of impacted soil shall be considered to have been achieved if field screening readings are less than 100 parts per million (ppm), the average background concentration for lead in Massachusetts.

Up to 10 confirmatory soil samples shall be collected from the surface of the base and side walls of the excavation pit for laboratory analysis of RCRA 8 metals and chromium III. In the event results indicate residual concentrations of heavy metals above background concentrations, additional soil excavation will be considered based on the concentrations detected.

Upon obtaining favorable confirmatory analytical results, the excavation grave shall be backfilled with clean material, seeded and covered with straw. The enclosure will remain in place throughout the RAM as a means to designate and secure the work area.

Task IV - Waste Disposal

A total of 9 discrete samples shall be collected from the soil stockpile for field screening with the XRF and composited into three samples representing the three highest, middle and lowest field screening results obtained. The samples will be submitted for RCRA 8 metals, chromium III, TCLP analysis of the metals exhibiting concentrations above Massachusetts natural background conditions or 20 times the TCLP standard (which ever is most conservative) as well as other waste profile analyses as needed (i.e. VOCs, PCBs, TPH, pH, reactivity). The results shall be used to determine the most appropriate disposal

location. Based on previous assessment findings, the soils should be classified as nonhazardous and transported by TMC to the Greenwood Street lined landfill in Worcester, MA for reuse as cap material. If analytical data demonstrates that the soils contain lead concentrations above 2,000 mg/kg or are classified as hazardous based on TCLP analyses (5mg/l), the soils shall be transported by TMC to the Turnkey Recycling & Environmental Enterprises (WMNH-TREE) facility located in Rochester, NH for reuse as cover material.

Task V – Federal, State or Local Permits

No permits are required to complete the work presented in this RAM Plan. *Call Before You Dig* shall be notified so that any underground utilities in the work area can be marked. The excavated soil shall be transported to a permitted disposal facility under a Bill of Lading that will be approved and stamped by the LSP who prepared this RAM Plan. If the soil volume excavated under this RAM Plan exceeds 1,500 cubic yards, the certification required under 310 CMR 40.0442(5) shall be provided. The volume of soils anticipated to be excavated under this RAM Plan is 420 cubic yards, such that this certification is not expected to be warranted.

Task VI – Health & Safety Plan

A Site Specific Health & Safety Plan is presented as Attachment III.

3.0 SCHEDULE

ECS has established the following schedule for the elements of this RAM Plan:

Tasks	Projected Project Schedule (week-of dates are provided)							
	5/8/09	5/18/09	5/25/09	6/1/09	6/8/09	6/15/09	7/15/09	8/15/09
Dig Safe								
RAM Plan Submittal to MassDEP								
Soil Excavation								
Post Soil Excavation Confirmatory Testing and Data Review								
Excavation Grave Backfill								
Soil Disposal								
Submittal of RAO Statement and RAM Completion Statement								

Public involvement letters and a copy of the BWSC-106 Transmittal form are included as Attachment I & II.

Project No. 01-207783/Document No. 37609
Joanne Fagan
MassDEP
May 19, 2009

Page 7

If there are any questions regarding this RAM Plan, please do not hesitate to contact the undersigned at (413) 789-3530.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

A handwritten signature in black ink, appearing to read "Bruce Tease", written in a cursive style.

Bruce Tease, PhD, PG, LSP
Senior Environmental Scientist

BT/kab
Attachments

cc: Theresa Bechta and James Morrissey, UMass

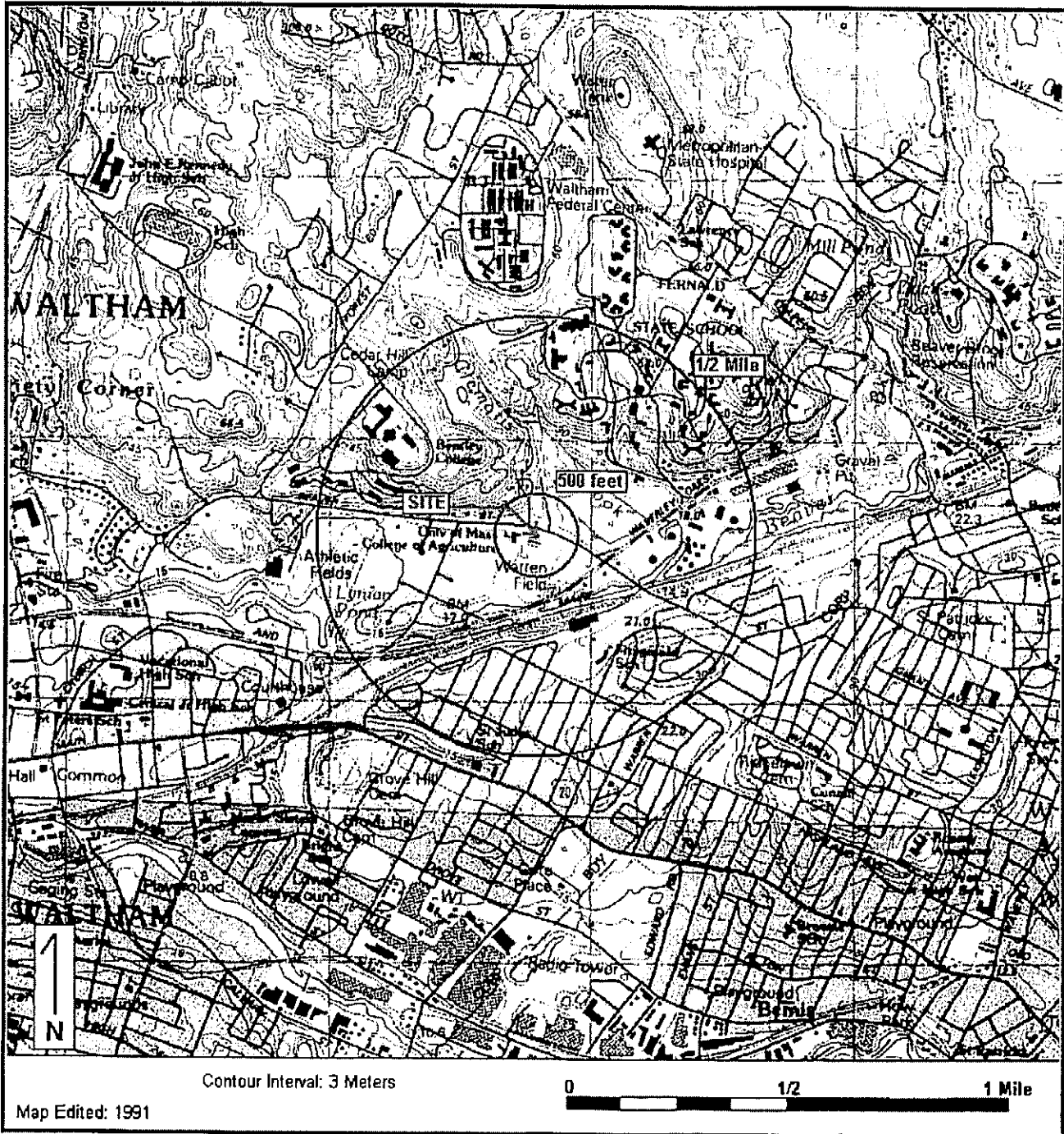
FIGURES



Environmental Compliance Services, Inc.
 588 Silver Street
 Agawam, MA 01001
 Phone 413.789.3530 Fax 413.789.2776
 www.ecsconsult.com

Waltham Research Station
1 Beaver Street
Waltham, MA 00000

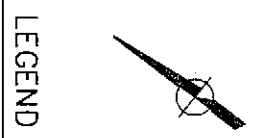
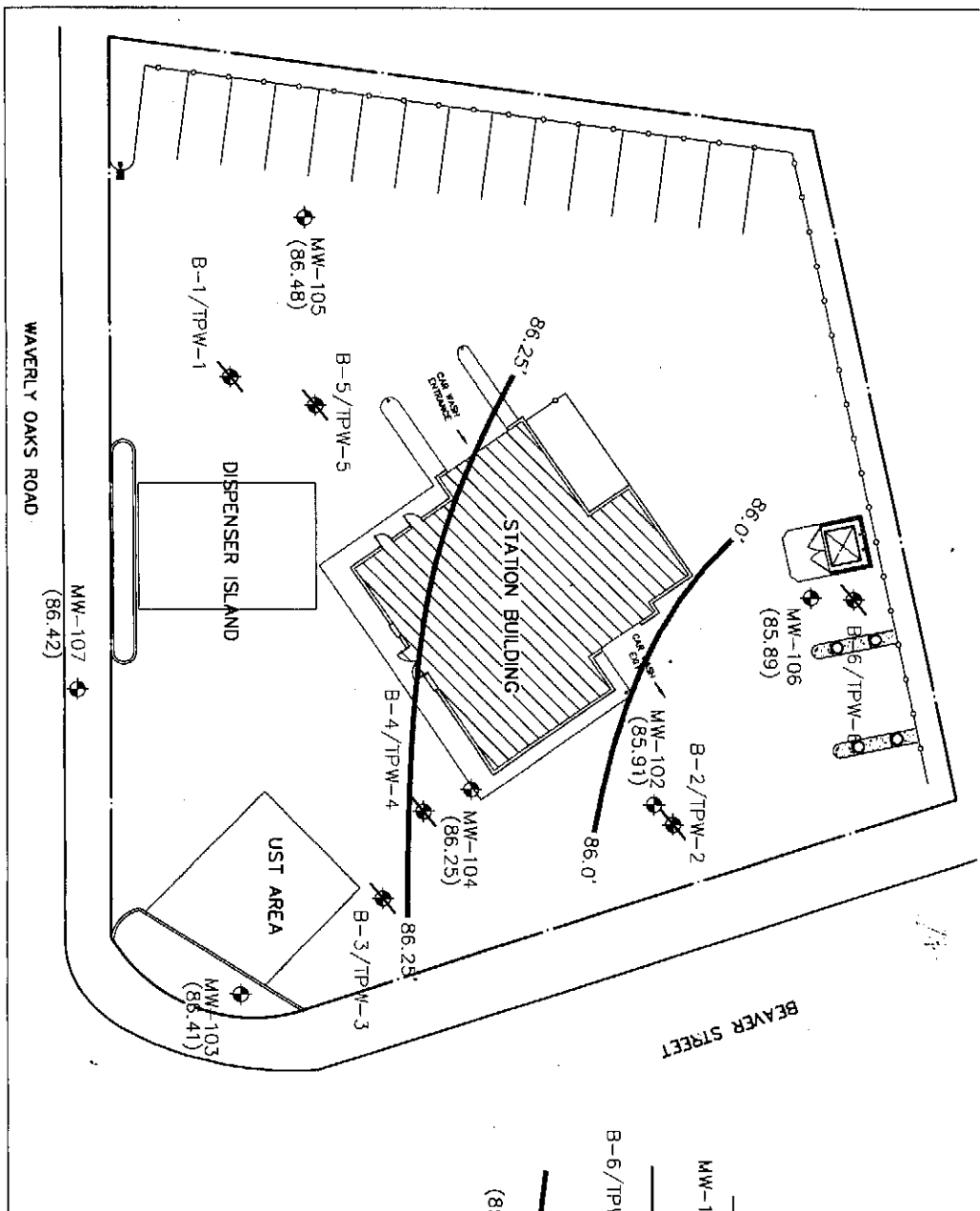
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Boston North, MA

Lat/Lon: 42° 23' 5" NORTH, 71° 12' 47" WEST - UTM Coordinates: 19 317828 EAST / 4694852 NORTH

Generated By: Christine DiMaio



LEGEND

- MW-102 MONITORING WELL
- PROPERTY BOUNDARY (APPROX)
- B-6/TPW-6 BORING/TEMPORARY MONITORING WELL (DESTROYED)
- 86.0' GROUNDWATER CONTOUR FROM 3/5/09 GAUGING EVENT
- (85.91) GROUNDWATER ELEVATION FROM 3/5/09 GAUGING EVENT



FIGURE 3

GROUNDWATER FLOW
MARCH 5, 2009
 SHELL-BRANDED SERVICE STATION
 LOCATED AT
 225 WAVERLY OAKS ROAD
 WALTHAM, MA

PREPARED FOR
MOTIVA ENTERPRISES, LLC
 AT THE REQUEST OF
SOVEREIGN CONSULTING INC
 948 SOUTH MAIN STREET
 MANSHFIELD, MA 02048
 TEL: (508) 339-3200 FAX: (508) 339-3248

Legend

- - - - - Appropriate Property Line
- Monitoring Well

General Notes:

All locations, dimensions, and property lines shown on this plan are approximate. This plan should not be used for construction or land conveyance purposes.



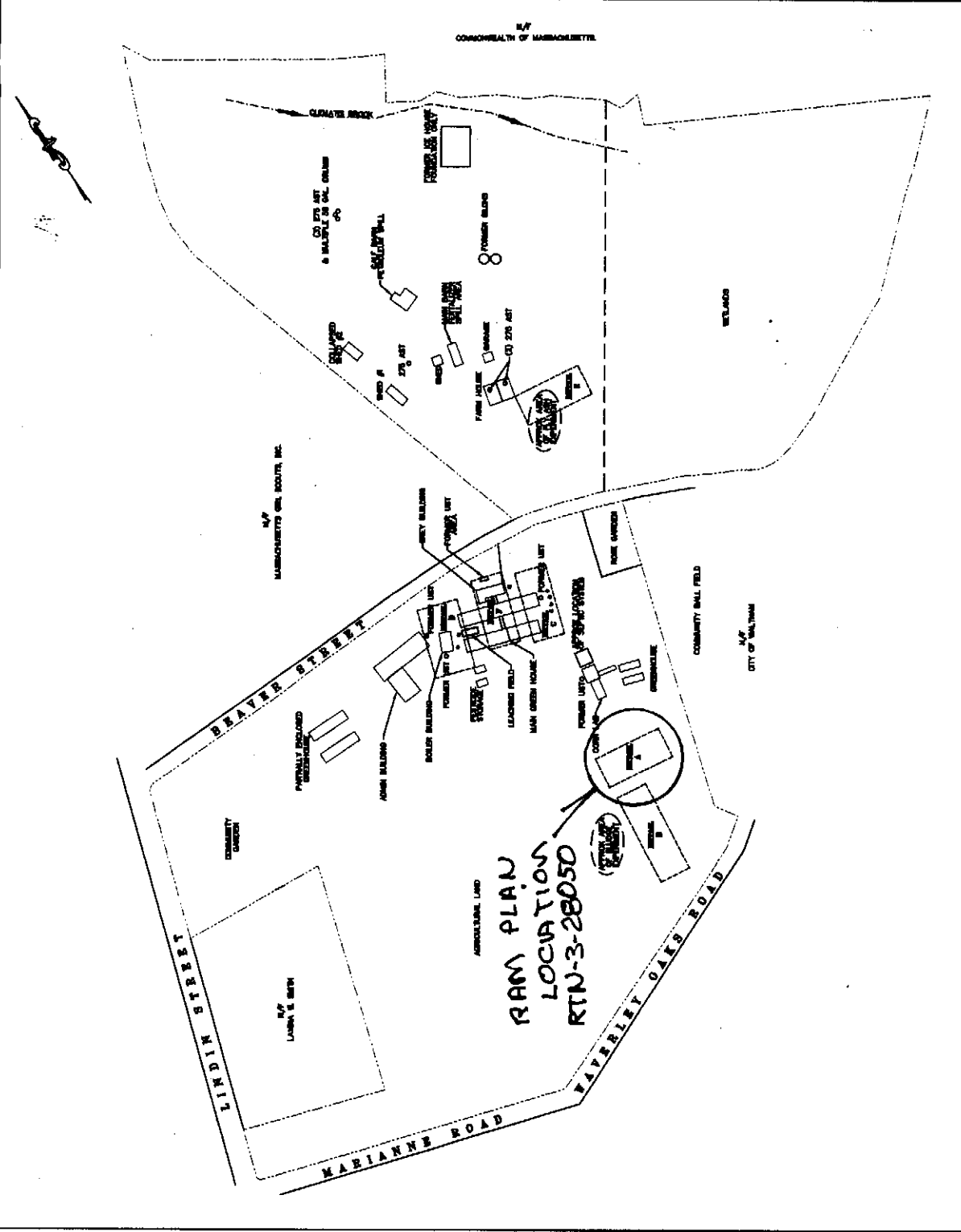
Environmental Consulting Services, Inc.
 225-227-240
 Waltham, Massachusetts

Waltham Station
 225-227-240 Beaver Street
 Waltham, Massachusetts

Site Plan

University of Massachusetts - Amherst

DATE	NO.	BY	FOR
7/1/06	1	JO	BT
7/1/06	2	JO	BT
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7/1/06	97	JO	BT
7/1/06	98	JO	BT
7/1/06	99	JO	BT
7/1/06	100	JO	BT



Fence
● Soil Sample Location

General Notes:

All locations, dimensions, and property lines shown on this plan should not be used for construction or land conveyance purposes.

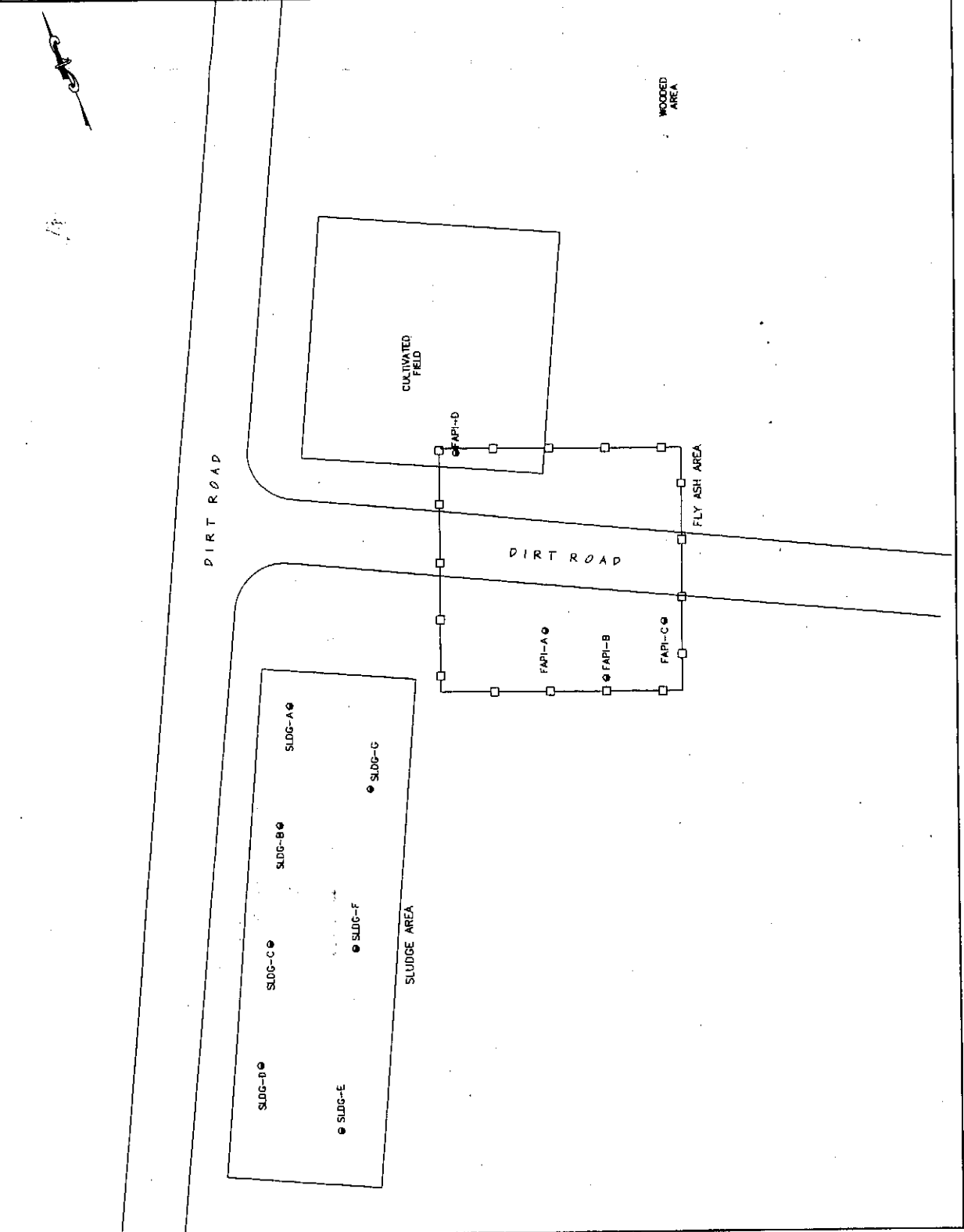


1400
1-800-738-5238
www.ecsusa.com

Waltham Station
225-227-240 Benner Street
Waltham, Massachusetts

Site Plan with Detail of Testing Conducted at
the Fly Ash/Sludge Ponds on Parcel 1
University of Massachusetts - Amherst

DATE:	10/15/08	18
DESIGNED BY:	JO	JO
CHECKED BY:	JO	JO
APPROVED BY:	BT	BT
DATE:	10/15/08	207763
SCALE:	1"=30'	



Agriculture Experiment Station
Waltham, MA
RTN 3-28050

Table 1. Soil Analytical Data Obtained Pre-excavation June 5, 2008 - Fly Ash Disposal Area

Sample Location/ Depth Range (inches)	FAP1-A-0-6	FAP1-A-18-24	FAP1-B-0-6	FAP1-C-0-6	FAP1-D-0-6	FAP1-D-0-6	Background*	
	0-6"	18-24"	0-6"	0-6"	0-6"	0-6"	Natural (mg/kg)	Coal Ash (mg/kg)
RCKA 8 METALS (mg/kg)								
Silver	14.6	<1.82	<1.68	30.2	6.64	<0.0100	0.6	5
	9.53	4.21	9.09	10.9		0.0150	20	20
Barium	279	50.6	107	504	307	1.27	50	50
		0.959				0.260	2	3
		15.3	28.2			<0.0100	30	40
Mercury	0.640	0.104	0.598	0.721	0.619	<0.0002	0.3	1
		52.1				4.15	100	600
Selenium	3.93	4.23	3.77	5.45	5.45	<0.0300	0.5	1
EPH FRACTIONS (mg/kg)								
C9-18 Aliphatic	<30.1	<32.5	<32.2	<29.3	<31.7	BRL<32.2	NA	NA
C19-36 Aliphatic	<30.1	<32.5	<32.2	<29.3	<31.7	BRL<32.2	NA	NA
C11-22 Aromatic	<30.1	<32.5	<32.2	<29.3	<31.7	BRL<32.2	NA	NA
EPH Target Analytes (ug/kg)								
Acenaphthene	<150	<162	<160	<146	>158	<160	500	2,000
Acenaphthylene	<150	<162	<160	<146	>158	<160	500	1,000
Anthracene	<150	<162	<160	<146	>158	<160	1,000	4,000
Benzo(a)anthracene	<150	<162	<160	<146	>158	<160	2,000	9,000
Benzo(b)fluoranthene	<150	<162	<160	<146	>158	<160	2,000	7,000
Benzo(k)fluoranthene	<150	<162	<160	<146	>158	<160	2,000	8,000
Chrysene	<150	<162	<160	<146	>158	<160	1,000	3,000
Dibenz(a,h)anthracene	<150	<162	<160	<146	>158	<160	2,000	4,000
Fluoranthene	<150	<162	<160	<146	>158	<160	500	1,000
Fluorene	<150	<162	<160	<146	>158	178	4,000	10,000
Indeno(1,2,3-cd)pyrene	<150	<162	<160	<146	>158	<160	1,000	2,000
2-Methylnaphthalene	<150	<162	<160	<146	>158	<160	1,000	3,000
Naphthalene	<150	<162	<160	<146	>158	<160	500	1,000
Phenanthrene	<150	<162	<160	<146	>158	<160	500	1,000
Pyrene	<150	<162	<160	<146	182	<160	3,000	20,000
					219	165	4,000	20,000

* Background values obtained from MassDEP Technical Update - Background Levels of PAHs and Metals in Soil (May 23, 2002)

Table 2. Soil Analytical Data from Sludge Deposition Area - June 5, 2008

Agriculture Experiment Station Waldam, MA		SLDGA 6-17 6/2/2008	Duplicate	SLDGD 6-17 6/2/2008	SLDGG 6-17 6/2/2008	SLDGG 6-17 6/2/2008	MCP Method 1 Standards 8-10PM-3
Sample Location	SLDGA 6-17 6/2/2008	Duplicate	SLDGD 6-17 6/2/2008	SLDGG 6-17 6/2/2008	SLDGG 6-17 6/2/2008	SLDGG 6-17 6/2/2008	
Sampling Date	6/2/2008	6/2/2008	6/2/2008	6/2/2008	6/2/2008	6/2/2008	
PAHs (ppb)							
Ben(a)P	BRL<34.4	BRL<33.7	BRL<32.3	BRL<34.0	BRL<34.0	BRL<34.0	1,000
Ben(b)P	BRL<34.4	BRL<33.7	BRL<32.3	BRL<34.0	BRL<34.0	BRL<34.0	3,000
Ben(e)P	BRL<34.4	BRL<33.7	BRL<32.3	BRL<34.0	BRL<34.0	BRL<34.0	1,000
PAHs (ppm)							
Acenaphthene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Acenaphthylene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	10,000
Anthracene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Benzo(a)anthracene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	7,000
Benzo(b)pyrene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	2,000
Benzo(k)fluoranthene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	7,000
Benzo(g,h,i)perylene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Benzo(i)fluoranthene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	70,000
Chrysene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	70,000
Dibenz(a,h)anthracene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	700
Fluoranthene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Fluorene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Indeno(1,2,3-cd)pyrene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	7,000
2-Methylanthracene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	300,000
Naphthalene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	500,000
Phenanthrene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	500,000
Pyrene	BRL<172	BRL<168	BRL<161	BRL<159	BRL<169	BRL<169	1,000,000
Organic (mg/kg)							
Silver	BRL<175	BRL<187	BRL<172	BRL<172	BRL<182	BRL<161	100
Arsenic	7.48	7.59	7.94	6.56	6.02	4.19	20
Barium	69.4	69.7	53.2	42.2	5.94	29.1	1,000
Cadmium	0.599	BRL<0.608	0.777	BRL<0.572	BRL<0.605	BRL<0.536	2
Chromium	16.7	16.3	18.1	15.5	14.2	14.0	30
Manganese	0.715	0.659	0.349	0.169	0.671	0.112	20
Copper	48.7	48.9	34.9	16.1	36.7	16.7	500
Selenium	4.3	4.26	3.59	4.16	4.07	4.27	400



TechLaw

175 Cabot Street, Suite 415, Lowell, MA 01854 • Phone: (978) 275-9730 • Fax: (978) 275-9489

Telephone Conversation Record

Date: 7/24/2009

Caller (name/affiliation): Gretchen Fodor / TechLaw Phone No.: 978-275-9730

Person Called (name/affiliation): Theresa Bechta / Phone No.: 413-577-2288
Assistant Director for Env. & Hazardous Materials

Subject: management U-MASS Amherst

Discuss Potential for Impacts to FDC from UMASS parcels

Conversation Record:

We discussed the RAM ^{plan} report prepared by ECS for Parcel 1 (240 Beaver Street). Theresa confirmed that Parcel 2 is 225-227 Beaver Street and is shown on the site plan on the north side of Beaver Street. She confirmed that Parcels 1 and 2 were used in an experiment during 1978 where fly ash (containing Pb, Cd, Cr) were applied to wet and dry areas. The wetland on Parcel 2 was the "wet" experimental area and a land parcel on Parcel 1 was the "dry" experimental area. The experimental design was implemented and developed by multiple agencies including Mass Dep (DeQC at the time), EPA, and the city of Waltham.

Theresa confirmed that although heavy metal contamination is present on the wetland parcel, there is vegetation over it and the intent is to obtain an AUC for the parcel. She indicated that the contamination was not moving and groundwater was not impacted. U-Mass is currently meeting with DEP and Waltham Conservation Commission representatives to address the metals contamination on the parcel.

Quality and Integrity

EDR Map ID

39

Site Information			
Site Number:	3-0028049	Category:	120 DY
Site Name:	UNIVERSITY OF MASSACHUSETTS	Release Type:	UNCLSS
Address:	225-227 BEAVER ST	Current date:	10/6/2008
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	
Official notification date:	10/6/2008	Location type:	
Initial status date:	10/6/2009	Source:	
Click Here for File Viewer			

Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/6/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/6/2008
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
CADMIUM	9.1	MG/KG
CHROMIUM	37.5	MG/KG
LEAD	1520	MG/KG



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE
205B Lowell Street, Wilmington, MA 01887 • (978) 694-3200

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Governor

IAN A. BOWLES
Secretary

TIMOTHY P. MURRAY
Lieutenant Governor

LAURIE BURT
Commissioner

University of Massachusetts
360 Campus Center Way
Amherst, MA 01003-9248

November 28, 2008
RE: Waltham
(University of Massachusetts
Waltham Agricultural Station)
225-227 Beaver Street
RTN 3-28049

Attention: Theresa Bechta

NOTICE OF RESPONSIBILITY PER M.G.L. c.21E & 310 CMR 40.0000, the MCP

THIS IS AN IMPORTANT NOTICE. FAILURE TO TAKE ADEQUATE ACTION IN RESPONSE TO THIS NOTICE COULD RESULT IN SERIOUS LEGAL CONSEQUENCES.

Dear Ms. Bechta:

Information contained in a Release Notification Form (RNF) submitted to the **Massachusetts Department of Environmental Protection** (MassDEP) on October 6, 2008 and submitted by **University of Massachusetts** indicates that there is or has been a release of oil and/or hazardous material at the above-referenced property which exceeds a "120 day" reporting threshold (310 CMR 40.0315) and which requires one or more response actions.

Based on this information, MassDEP has reason to believe that the subject property or portion(s) thereof is a disposal site as defined in the Massachusetts Oil and Hazardous Material Release Prevention and Response Act, M.G.L. c. 21E, and the Massachusetts Contingency Plan, 310 CMR 40.0000 (the MCP). M.G.L. c. 21E and the MCP govern the assessment and cleanup of disposal sites.

The purpose of this notice is to inform you of your legal responsibilities under state law for assessing and/or remediating the subject release. For purposes of this notice, the terms and phrases used herein shall have the meaning ascribed to them by the MCP unless the text clearly indicates otherwise.

STATUTORY LIABILITIES

MassDEP has reason to believe that you (as used in this letter, "you" refers to **University of Massachusetts**) are a Potentially Responsible Party (a PRP) with liability under M.G.L. c. 21E, § 5, for response action costs. Section 5 makes the following parties liable to the Commonwealth of Massachusetts: current owners or operators of a site from or at which there is or has been a release/threat of release of oil or hazardous material; any person who owned or operated a site at the time hazardous material was stored or disposed of; any person who arranged for the transport, disposal, storage or treatment of hazardous material to or at a site; any person who transported hazardous material to a transport, disposal, storage or treatment site from which there is or has been a release/threat of release of such material; and any person who otherwise caused or is legally responsible for a release/threat of release of oil or hazardous material at a site.

This liability is "strict", meaning it is not based on fault, but solely on your status as an owner, operator, generator, transporter or disposer. It is also joint and several, meaning that you may be liable for all response action costs incurred at the site, regardless of the existence of any other liable parties.

The MCP requires responsible parties to take necessary response actions at properties where there is or has been a release or threat of release of oil and/or hazardous material. If you do not take the necessary response actions, or fail to perform them in an appropriate and timely manner, MassDEP is authorized by M.G.L. c. 21E to have the work performed by its contractors. By taking such actions, you can avoid liability for response action costs incurred by MassDEP and its contractors in performing these actions, and sanctions, which may be imposed for failure to perform response actions under the MCP.

You may be liable for up to three (3) times all response action costs incurred by MassDEP. Response action costs include, without limitation, the cost of direct hours spent by MassDEP employees arranging for response actions or overseeing work performed by persons other than MassDEP or its contractors, expenses incurred by MassDEP in support of those direct hours, and payments to MassDEP's contractors. (For more detail on cost liability, see 310 CMR 40.1200.)

MassDEP may also assess interest on costs incurred at the rate of twelve percent (12%), compounded annually. To secure payment of this debt, the Commonwealth may place liens on all of your property in the Commonwealth. To recover the debt, the Commonwealth may foreclose on these liens or the Attorney General may bring legal action against you.

In addition to your liability for up to three (3) times all response action costs incurred by MassDEP, you may also be liable to the Commonwealth for damages to natural resources caused by the release. Civil and criminal liability may also be imposed under M.G.L. c. 21E, § 11, and civil administrative penalties may be imposed under M.G.L. c. 21A, § 16 for each violation of M.G.L. c. 21E, the MCP, or any order, permit or approval issued thereunder.

NECESSARY RESPONSE ACTIONS

The subject site shall not be deemed to have all the necessary and required response actions taken unless and until all substantial hazards presented by the site have been eliminated and a level of No Significant Risk exists or has been achieved in compliance with M.G.L. c. 21E and the MCP. In addition, the MCP requires persons undertaking response actions at disposal sites to perform Immediate Response Actions (IRAs) in response to "sudden releases", Imminent Hazards and Substantial Release Migration. Such persons must continue to evaluate the need for IRAs and notify MassDEP immediately if such a need exists.

MassDEP has determined that initial site investigation activities, in accordance with 310 CMR 40.0405, are necessary. In addition, unless an RAO is submitted earlier, a completed Tier Classification Submittal pursuant to 310 CMR 40.0510, and, if appropriate, a completed Tier I Permit Application pursuant to 310 CMR 40.0700, must be submitted to MassDEP within one year of the initial date notice of a release is provided to MassDEP pursuant to 310 CMR 40.0300 or from the date MassDEP issues a Notice of Responsibility (NOR), whichever occurs earlier.

It is important to note that you must dispose of any Remediation Waste generated at the subject location in accordance with 310 CMR 40.0030 including, without limitation, contaminated soil and/or debris. Any Bill of Lading accompanying such waste must bear the seal and signature of an LSP or, if the response action is performed under the direct supervision of MassDEP, the signature of an authorized representative of MassDEP.

MassDEP encourages parties with liabilities under M.G.L. c. 21E to take prompt action in response to releases and threats of release of oil and/or hazardous material. By taking prompt action, you may significantly lower your assessment and cleanup costs and avoid the imposition of, or reduce the amount of, certain permit and annual compliance fees for response actions payable under 310 CMR 4.00.

If you have any questions relative to this notice, you should contact Joanne Fagan at the letterhead address or (978) 694-3390. All future communications regarding this release must reference the Release Tracking Number (RTN) **3-28049** contained in the subject block of this letter.

Very truly yours,

The Massachusetts Department of Environmental Protection is providing this final document copy to you electronically. A signed copy of the original document is on file at the DEP's Northeast Region records office located in Wilmington, Massachusetts.

Joanne Fagan
Section Chief, Brownfields/Permits
Bureau of Waste Site Cleanup

cc: Board of Health, City of **Waltham**, Mr. Walter Sweder,
"via electronic submittal
wsweder@city.waltham.ma.us

MassDEP database (NOR / Issued)

Printable Parcel Viewer Map



Property Information

Prop ID R054 001 0001
Location 225 BEAVER ST
Owner COMMONWEALTH OF MASS.
Billing Address 240 BEAVER STREET
City, State Zip WALTHAM, MA 02452-8022
Legal Ref. Date
Sale Price \$0
Lot Size 30.84



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**


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Site Information			
Site Number:	3-0028048	Category:	120 DY
Site Name:	UNIVERSITY OF MASSACHUSETTS	Release Type:	UNCLSS
Address:	240 BEAVER ST	Current date:	10/6/2008
Town:	WALTHAM	Phase:	
Zipcode:		RAO class:	
Official notification date:	10/6/2008	Location type:	
Initial status date:	10/6/2009	Source:	
Click Here for File Viewer			

Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/6/2008
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/6/2008
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
C11 THRU C22 AROMATIC HYDROCARBONS	1510	MG/KG
C9 THRU C18 ALIPHATIC HYDROCARBONS	5.5	MG/L
C9 THRU C18 ALIPHATIC HYDROCARBONS	3150	MG/KG

EDR map ID 39541




Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC102

RELEASE AMENDMENT FORM

Release Tracking Number

3 - 28048

A. RELEASE/SITE LOCATION:

1. Site Name/Location Aid: UNIVERSITY OF MASSACHUSETTS
2. Street Address: 240 BEAVER ST
3. City/Town: WALTHAM, WALTHAM
4. ZIP Code:

B. THIS FORM IS BEING USED TO: (check all that apply)

1. Date of Response(s): 11/28/2008 (mm/dd/yyyy) Start Time: 10:00 (hh:mm) AM PM
2. Record an Initial Compliance Field Response - Announced.
3. Record an Initial Compliance Field Response - Unannounced.
4. Record a Compliance Field Response - Announced.
5. Record a Compliance Field Response - Unannounced.
6. Record a Field Response - Direct Oversight.
7. Record a Follow-up or Other Field Response.
8. Record a Follow-up Office Response.
9. Identify or Update a PRP or Other Person Associated with Release. (Fill out Section E)
10. Correct or Add Data to WSC Database otherwise not specified on this form. (Record in Section C and, if needed, F)

C. DESCRIPTION OF ACTIVITIES RECORDED BY THIS FORM: (If additional lines are needed, record in Section F.)

THE NOTICE OF RESPONSIBILITY ISSUED TO THE POTENTIALLY RESPONSIBLE PARTY IS ATTACHED TO THIS RELEASE LOG FORM AMENDMENT AS AN ANCILLARY DOCUMENT.

D. DEP STAFF AND FORM PREPARER:

1. DEP Staff: a. Name: b. Check here, if Unassigned (or staff name not applicable).
2. Preparer Signature: Ida Babroudi
3. Date: 12/01/2008



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC102

RELEASE AMENDMENT FORM

Release Tracking Number

3 - 28048

E. PRP OR OTHER PERSON ASSOCIATED WITH RELEASE :

1. Check all that apply: a. change in contact name b. change of address c. new person associated with release

2. Name of Organization: UNIVERSITY OF MASSACHUSETTS

3. Contact First Name: THERESA 4. Last Name: BECHTA

5. Street: 360 CAMPUS CENTER WAY 6. Title:

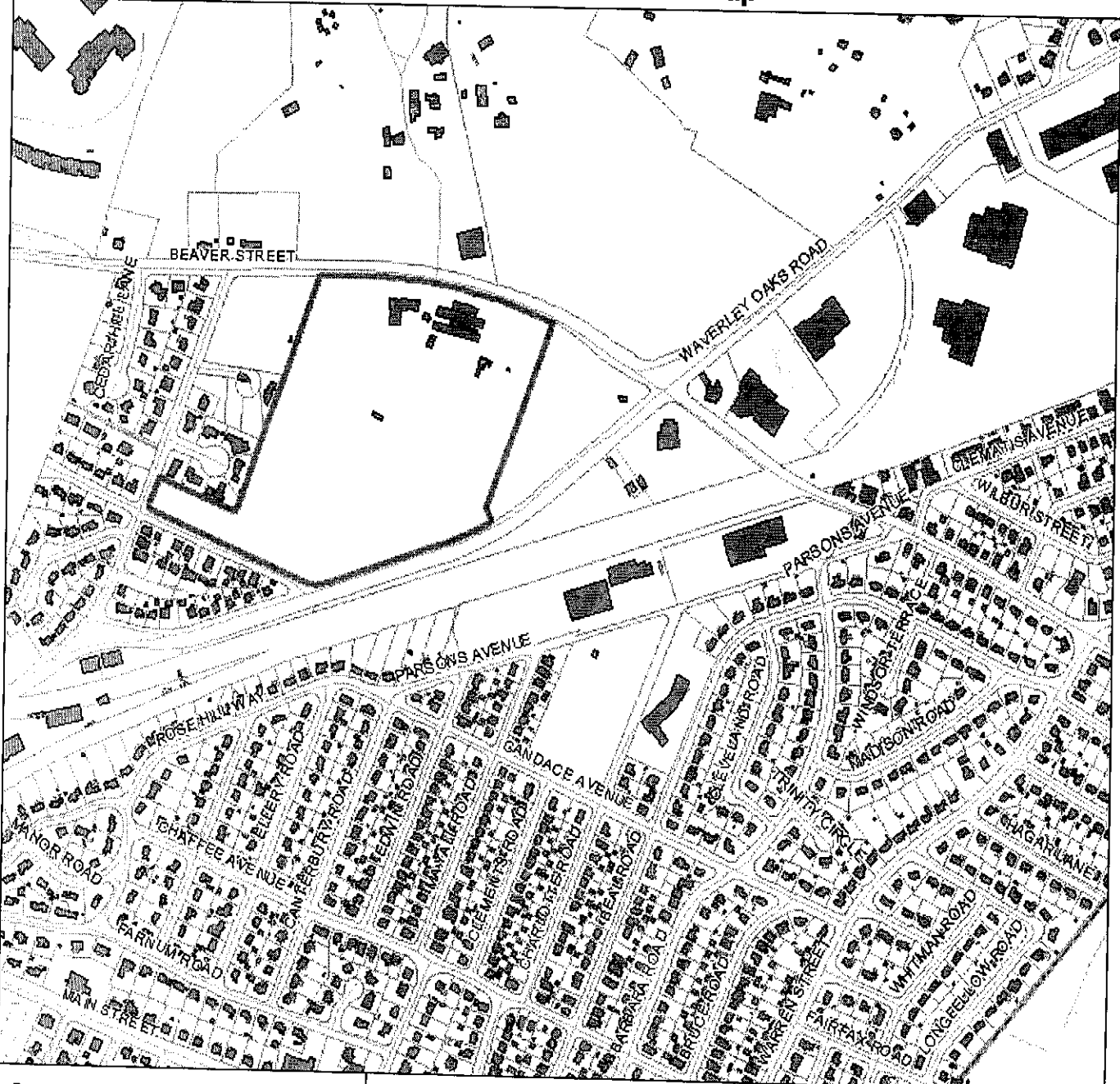
7. City/Town: AMHERST 8. State: MA 9. ZIP Code: 010036710

10. Telephone: 4135450910 11. Ext.: 12. FAX:

13. Relationship of Person to Release: a. PRP b. Other c. Type PRP Current Owner

F. ADDITIONAL DESCRIPTION:

Printable Parcel Viewer Map



Property Information

Prop ID R053 003 0001
Location 240 BEAVER ST
Owner COMMONWEALTH OF MASS.
Billing Address 240 BEAVER STREET
City, State Zip WALTHAM, MA 02452-8022
Legal Ref. Date
Sale Price \$0
Lot Size 24.96



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COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE

205B Lowell Street, Wilmington, MA 01887 • (978) 694-3200

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Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

University of Massachusetts
360 Campus Center Way
Amherst, MA 01003-9248

NOVEMBER 28, 2008
RE: Waltham
(University of Massachusetts
Waltham Agricultural Station)
240 Beaver Street
RTN 3-28048

Attention: Theresa Bechta

NOTICE OF RESPONSIBILITY PER M.G.L. c.21E & 310 CMR 40.0000, the MCP

THIS IS AN IMPORTANT NOTICE. FAILURE TO TAKE ADEQUATE ACTION IN RESPONSE TO THIS NOTICE COULD RESULT IN SERIOUS LEGAL CONSEQUENCES.

Dear Ms. Bechta:

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Based on this information, MassDEP has reason to believe that the subject property or portion(s) thereof is a disposal site as defined in the Massachusetts Oil and Hazardous Material Release Prevention and Response Act, M.G.L. c. 21E, and the Massachusetts Contingency Plan, 310 CMR 40.0000 (the MCP). M.G.L. c. 21E and the MCP govern the assessment and cleanup of disposal sites.

The purpose of this notice is to inform you of your legal responsibilities under state law for assessing and/or remediating the subject release. For purposes of this notice, the terms and

phrases used herein shall have the meaning ascribed to them by the MCP unless the text clearly indicates otherwise.

STATUTORY LIABILITIES

MassDEP has reason to believe that you (as used in this letter, "you" refers to **University of Massachusetts**) are a Potentially Responsible Party (a PRP) with liability under M.G.L. c. 21E, § 5, for response action costs. Section 5 makes the following parties liable to the Commonwealth of Massachusetts: current owners or operators of a site from or at which there is or has been a release/threat of release of oil or hazardous material; any person who owned or operated a site at the time hazardous material was stored or disposed of; any person who arranged for the transport, disposal, storage or treatment of hazardous material to or at a site; any person who transported hazardous material to a transport, disposal, storage or treatment site from which there is or has been a release/threat of release of such material; and any person who otherwise caused or is legally responsible for a release/threat of release of oil or hazardous material at a site.

This liability is "strict", meaning it is not based on fault, but solely on your status as an owner, operator, generator, transporter or disposer. It is also joint and several, meaning that you may be liable for all response action costs incurred at the site, regardless of the existence of any other liable parties.

The MCP requires responsible parties to take necessary response actions at properties where there is or has been a release or threat of release of oil and/or hazardous material. If you do not take the necessary response actions, or fail to perform them in an appropriate and timely manner, MassDEP is authorized by M.G.L. c. 21E to have the work performed by its contractors. By taking such actions, you can avoid liability for response action costs incurred by MassDEP and its contractors in performing these actions, and sanctions, which may be imposed for failure to perform response actions under the MCP.

You may be liable for up to three (3) times all response action costs incurred by MassDEP. Response action costs include, without limitation, the cost of direct hours spent by MassDEP employees arranging for response actions or overseeing work performed by persons other than MassDEP or its contractors, expenses incurred by MassDEP in support of those direct hours, and payments to MassDEP's contractors. (For more detail on cost liability, see 310 CMR 40.1200.)

MassDEP may also assess interest on costs incurred at the rate of twelve percent (12%), compounded annually. To secure payment of this debt, the Commonwealth may place liens on all of your property in the Commonwealth. To recover the debt, the Commonwealth may foreclose on these liens or the Attorney General may bring legal action against you.

In addition to your liability for up to three (3) times all response action costs incurred by MassDEP, you may also be liable to the Commonwealth for damages to natural resources caused by the release. Civil and criminal liability may also be imposed under M.G.L. c. 21E, § 11, and civil administrative penalties may be imposed under M.G.L. c. 21A, § 16 for each violation of M.G.L. c. 21E, the MCP, or any order, permit or approval issued thereunder.

NECESSARY RESPONSE ACTIONS

The subject site shall not be deemed to have all the necessary and required response actions taken unless and until all substantial hazards presented by the site have been eliminated and a level of No Significant Risk exists or has been achieved in compliance with M.G.L. c. 21E and the MCP. In addition, the MCP requires persons undertaking response actions at disposal sites to perform Immediate Response Actions (IRAs) in response to "sudden releases", Imminent Hazards and Substantial Release Migration. Such persons must continue to evaluate the need for IRAs and notify MassDEP immediately if such a need exists.

MassDEP has determined that initial site investigation activities, in accordance with 310 CMR 40.0405, are necessary. In addition, unless an RAO is submitted earlier, a completed Tier Classification Submittal pursuant to 310 CMR 40.0510, and, if appropriate, a completed Tier I Permit Application pursuant to 310 CMR 40.0700, must be submitted to MassDEP within one year of the initial date notice of a release is provided to MassDEP pursuant to 310 CMR 40.0300 or from the date MassDEP issues a Notice of Responsibility (NOR), whichever occurs earlier.

It is important to note that you must dispose of any Remediation Waste generated at the subject location in accordance with 310 CMR 40.0030 including, without limitation, contaminated soil and/or debris. Any Bill of Lading accompanying such waste must bear the seal and signature of an LSP or, if the response action is performed under the direct supervision of MassDEP, the signature of an authorized representative of MassDEP.

MassDEP encourages parties with liabilities under M.G.L. c. 21E to take prompt action in response to releases and threats of release of oil and/or hazardous material. By taking prompt action, you may significantly lower your assessment and cleanup costs and avoid the imposition of, or reduce the amount of, certain permit and annual compliance fees for response actions payable under 310 CMR 4.00.

If you have any questions relative to this notice, you should contact Joanne Fagan at the letterhead address or (978) 694-3390. All future communications regarding this release must reference the Release Tracking Number (RTN) **3-28048** contained in the subject block of this letter.

Very truly yours,

The Massachusetts Department of Environmental Protection is providing this final document copy to you electronically. A signed copy of the original document is on file at the DEP's Northeast Region records office located in Wilmington, Massachusetts.

Joanne Fagan
Section Chief, Brownfields/Permits
Bureau of Waste Site Cleanup

cc: Board of Health, City of **Waltham**, Mr. Walter Sweder,
"via electronic submittal
wsweder@city.waltham.ma.us

MassDEP database (NOR / Issued)

Fodor, Gretchen

From: Bruce Tease [btease@ecsconsult.com]
Sent: Tuesday, August 04, 2009 2:54 PM
To: Fodor, Gretchen
Cc: Morrissey James
Subject: Wetlands on Parcel 2, UMASS Agriculture Experimental Station Waltham, MA
Attachments: Figure 2 (bt REVISED 7 30 09) site layout.pdf

Hello Ms. Fodor

Attached is an aerial site plan showing the area of recent environmental investigations adjacent to and within wetlands located on Parcel 2 of the UMASS property at 225-27 Beaver Street in Waltham

We have completed a wetlands line per ACOE/WPA regs in this area of Parcel 2. We surveyed the flags but have not precisely referenced them to a specific benchmark and as such the plan should be considered an approximate rendering.

Let me know if you can not open this plan and I will mail you a hard copy. Please call if you have any questions


Thank you

BT
Bruce Tease
Senior Environmental Scientist



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

588 Silver St.
Agawam MA 01001
tel 413.789.3530 fax 413.789.2776 mobile 413.519.0418
btease@ecsconsult.com
www.ecsconsult.com

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EXHIBIT C-14

Municipal File Review

Waltham Assessors Records

A FN RCHS P-100

200 TRAPELO RD
FERNALD WALTER STATE SCH

200 TRAPELO RD
WALTHAM MASS 02154

190, TRAPELO RD

LOT SIZE

3000 SQ FT

1903-04-30 FT

ATLAS NO.

40-222

145.1-1

ASSESSORS PLAN NO.

OWNER'S NAME	MAILING ADDRESS	PARCELS ACQUIRED	COMBID	DEED BOOK	PAGE NO
				51000	550

190 TRAPELO RD
 200 TRAPELO RD
 200 TRAPELO RD
 200 TRAPELO RD
 200 TRAPELO RD
 TOTAL
 51000 550

TOTAL	DEED	PAGE	BOOK
51000	51000	550	

E-5

MASS. COMMONWEALTH OF

262 TRAPELO RD 566x290 SQ. FT.

200 TRAPELO RD
WALTHAM MASS 02154

ATLAS NO. 102 -F- 2
ASSESSORS PLAN RD.

OWNERS NAME

COM. OF MASS.

MAILING ADDRESS

200 TRAPELO RD., WAL.

DATE ACQUIRED

8/17/31

CONSID.

DEED BOOK

5584

PAGE No.

383

CARD	IMP	LAND	TOTAL	IMP	LAND	TOTAL	IMP	LAND	TOTAL	IMP	LAND	TOTAL	IMP	LAND	TOTAL
		20,850													
61		105,300													
		126,150													

(SMF) 2/28 2
2/28 2

Trapeza Rd.
Volunteer Center aka "Cardinal Cottage"
Part of APN R036 008 0001
(SMF 7/09)

LAND RECORD

NO UTILITIES	LOW	
NO SEWER	HIGH	
NO WATER	ROUGH	
NO GAS	ROCKY	
NO ELECTRICITY	SWAMPY	
	HILL SIDE	
	WOODED	
	BRUSHLAND	
	TILLABLE	
	NO SIDEWALK	

LAND VALUE COMPUTATIONS

FRONTAGE FIGURED	AVERAGE DEPTH	UNIT PRICE	UNIT PERCENT	FRONT FT PRICE	COR. INFL.	TOTAL	% DEPR.	VALUE
13.0 AC.		@ 9000/Ac.				117,000		117,000

NOTES: W. E. FERNAND STATE SCHOOL LAND

CARD		
IMP		9700
LAND		154,000
TOTAL	61	163,700
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	
IMP		
LAND		
TOTAL	61	

KEY 113077
 WALTHAM MASSACHUSETTS
 E-5
 338 Trapelo Road
 Waverley Oaks Children Development
 Center (i.e. - staff day care) SAC 7/2009
 Part of APN: R0360080001

MASS COMMONWEALTH OF
 200 TRAPELO RD
 WALTHAM MASS 02154

OWNERS NAME	MAILING ADDRESS	DATE ACQUIRED	CONSID.	DEED BOOK	PAGE No.
CONN. OF MASS.	200 TRAPELO RD, WAL.	5/22/80		543	286

LAND VALUE COMPUTATIONS										
LAND RECORD		FRONTAGE FIGURED	AVERAGE DEPTH	UNIT PRICE	UNIT PERCENT	FRONT FT. PRICE	COR. INFL.	TOTAL	% DEPR.	VALUE
NO UTILITIES	LOW									
NO SEWER	HIGH									
NO WATER	ROUGH									
NO GAS	ROCKY									
NO ELECTRICITY	SWAMPY									
NO STREET	HILLSIDE									
DIRT STREET	WOODED									
SEMI-IMPR. ST.	BRUSHLAND									
NO SIDEWALK	TILLABLE									
		19.01 AC.		@ 9000/AC				171,090		171,090

NOTES: W.E. FERNALD STATE SCHOOL LAND

338 TRAPELO RD
 LOT SIZE 808,075 SQ. FT.
 OR 19.01 ACRES
 ATLAS 122-1
 ACCESSORS (LAWYER)

Owner	Massachusetts, Commonwealth of		
From	Mass. School for the Feeble-Minded.		
Estate	17 Acres 11 665 sq. ft. land parcel of J.C. Johnson. June 1. '88. Conveyed by Sarah P. Bird 1854.		
To Grantor from	50 ¹¹ / ₁₀ Acres & 5 Acres 30227 ft. These two being the same, conveyed to grantor by Fred M. Baldwin, Sept. 1. '87.		
	16 ¹ / ₄ Acres. from Samuel J. Whelpley et al Aug. 6. '87.		
Consideration	Date	Recorded	Page 27 Book 1915.
	4. 11. '89	6. 17. '89	
Grantor List of	1889-90.		Page 84
Remarks			

GRANTEE

GRANTOR

7348 76
Commonwealth of Mass. Taking
Department of Mental Diseases acting for
Comm. of Mass. for purpose of constructing spur
track to connect ed. owned by Comm. + occupied
by Mass. School for Feeble-Minded with Cen-
tral Mass. R.R. do hereby take absolutely in
fee simple in name + on behalf ed. Comm.
all that tract of ed. + all rghts, easements,
title + int. of all persons in + to + over ed.
tract - Beg. at pt. on center line rd.
taking, 195 ft. N.E. along N. line right of way

Cont. Mass. Div. of B. & N. R.R. rd. post. being
station 1 + 66 along rd. center line of proposed
sidewalk beg. at station 0 + 00 which is inter. of
center line of existing sidewalk with N.E. line
Beaver L. - rd. from rd. post. above meas'd on
rd. center line on curve to left, radius 573.2 ft
alt. 34 ft. to station 2 + 00 - N.E. on tangent to
rd. curve 200 ft. to station 4 + 00 - N.E. N. +
N.W. along rd. center line on curve to left
radius 573.2 ft. alt. 80 ft. to post. on S.E. line
Waverly Clark Rd. rd. post. being alt. 27 ft.
S.W. from inter. rd. S.E. line Waverly Clark Rd.
locus

Handwritten text in a cursive script, appearing to be a page from a document or letter. The text is illegible due to the low resolution of the scan.

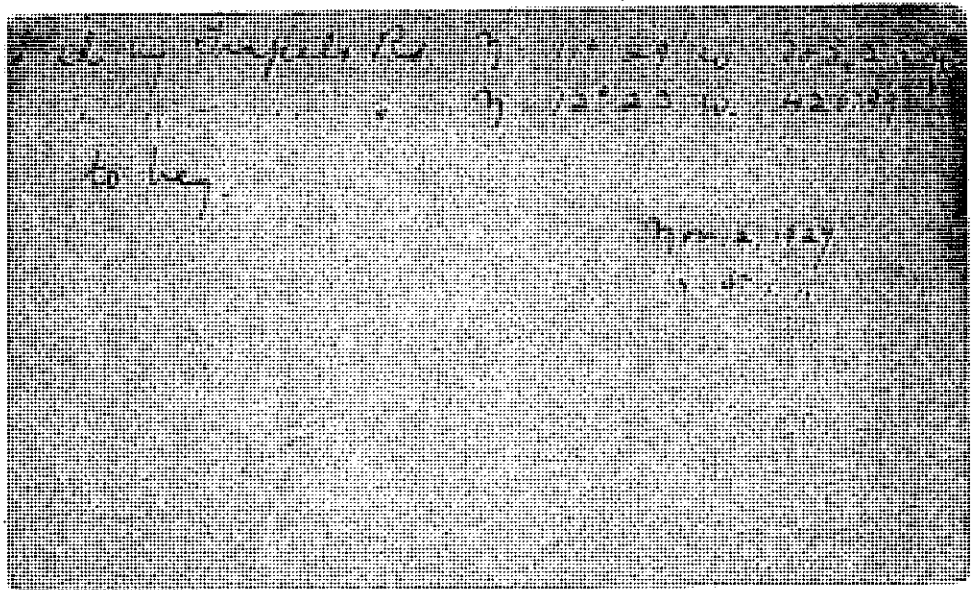
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Handwritten text on a textured background, possibly a document or letter. The text is mostly illegible due to the grainy texture and low contrast. Some faint words and numbers are visible, including "1947" and "17".

Handwritten text on a dark, textured background, possibly a page from a manuscript or a document. The text is arranged in approximately 12 horizontal lines. The characters are small and difficult to decipher due to the low resolution and high contrast of the image. The text appears to be in a historical or archaic script, possibly Latin or a similar European language. The lines are roughly parallel and fill most of the width of the dark area.

Handwritten text, possibly a list or notes, with some illegible entries. The text is written in a cursive or semi-cursive style. Some legible words include "all by", "the", and "of".

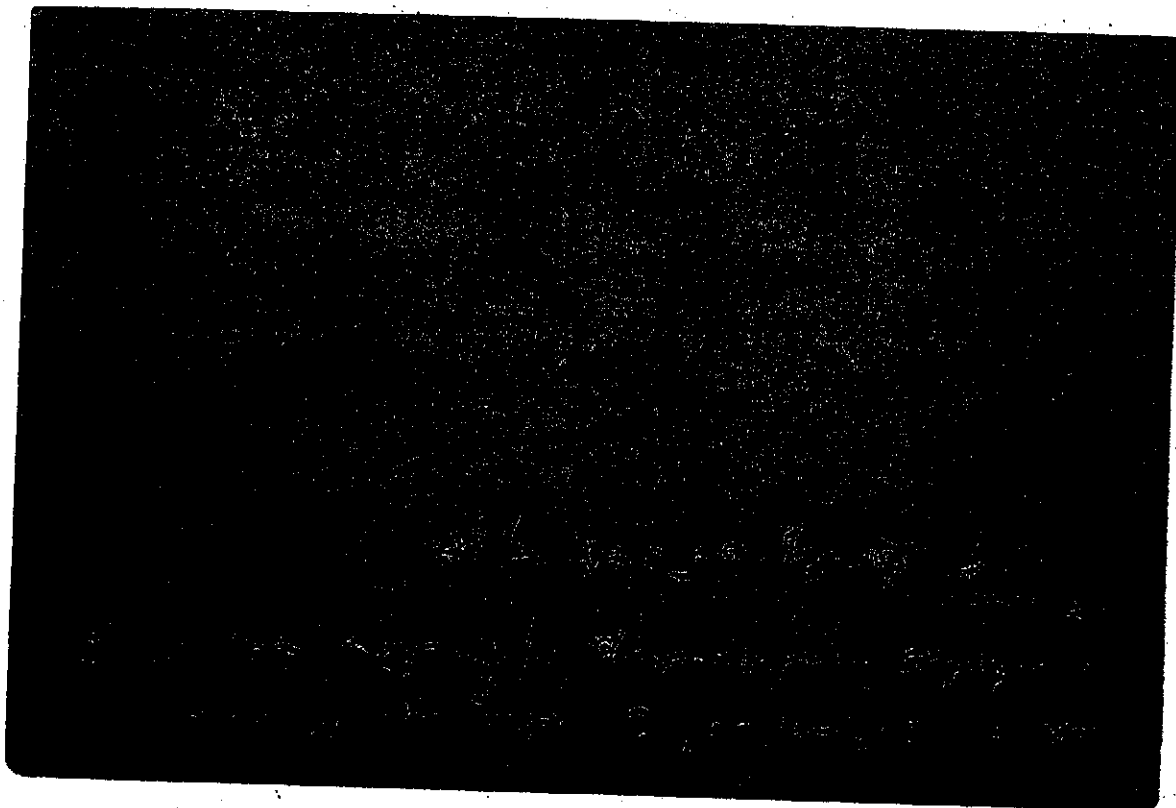
Classified
SECRET



Grantee	Mass. School for Feeble Minded.		
Grantor	Laura A. Baldwin et al.		
Location			
To Grantor from			
		Recorded, Book	2539 Page 8
Consideration	\$1.	Date	1-28-2-15-3-2-97
Grantor List of	1896-97	Page	70 Assessors' Plan
Remarks			
For description see back of card			

Beg. at a split-granite stone at N.E. cor
of prem. then S. 38° - $84\frac{1}{2}$ f. to ld. of gr
to wall at ld. of S. D. Warren then N.
 29° - 111 f. \angle N. $38\frac{1}{2}^{\circ}$ 89 f. - N. 48° - $35\frac{1}{2}$ f.
 \angle N. $22\frac{1}{2}^{\circ}$ E - 110 f. N. $11\frac{1}{2}^{\circ}$ \angle $12\frac{1}{2}^{\circ}$ \angle N. 12° - 10 m
78 f. N. $37\frac{1}{4}^{\circ}$ E. 659 f. all on ld. of sd. Warren as
wall n. stands to cor. at ld. of Baldwin
 \angle then S. 45° 10 m. E. 270 f. on Baldwin ld. as
wall now stands
on sd. granite ld. (then S. $143\frac{1}{4}^{\circ}$ E $52\frac{1}{2}$ f.
contg. 5 acres.

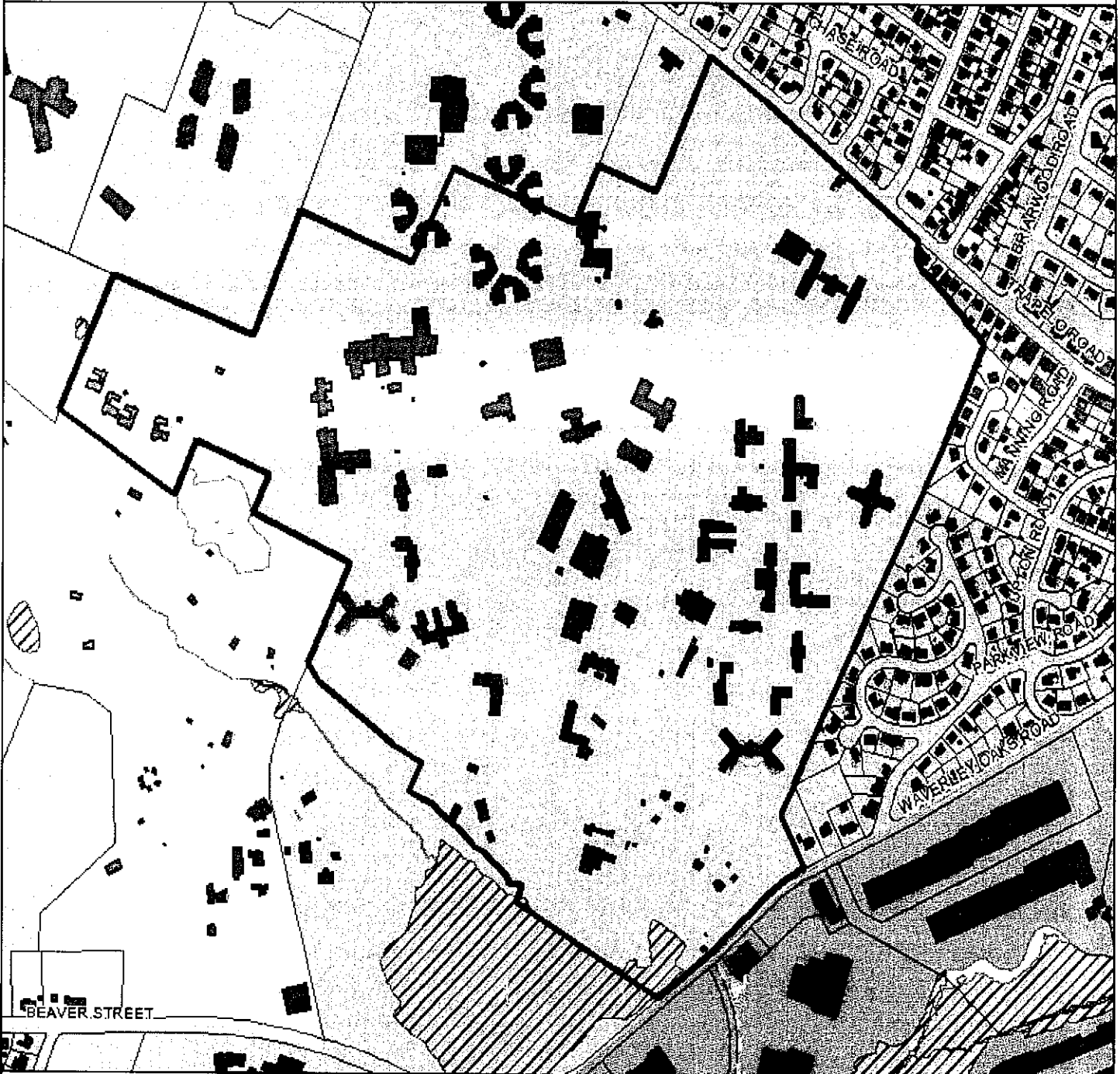
Owner	Massachusetts School for the Deaf & Blind		
From	Walter O. Fernald		
Estate	Est. North St. described in deed from Hawkins to Fernald.		
To Grantor from			
Consideration	\$1	Date	2. 5. '90
		Recorded	2. 6. '90
Grantor List of	1889 '90		Page 492. Book 1955.
Remarks			Page 2 #21.



GRANTEE		The Department of the Interior	
GRANTOR		County of Washam	
LOCATION	Trapelo Rd.	DESCRIPTION	Buyer Miller at 100 ft. from the
<p> Section 615 60 ft. of front to Trapelo Rd. - 100 ft. from 264 99 ft. - cl. of 360 26.4 ft. of corner of man at 26 ft. - 100 ft. along rd. at - corner. 203 26 ft. 301 17" W. along rd. to corner of man </p>			
BOOK	PAGE	DATE OF INSTR.	DATE REC.
5600	1-17	July 15 1931	1931
TO GRANTEE FROM			

Waltham GIS Information
For Property and Surrounding Properties

Printable Zoning Map



Property Information

Prop ID R045 001 0001
Location 190 TRAPELO RD
Owner COMM. OF MASS
Billing Address 200 TRAPELO ROAD
City, State Zip WALTHAM, MA 02452
Legal Ref. Date 10/22/1931
Sale Price \$0
Lot Size 163.05

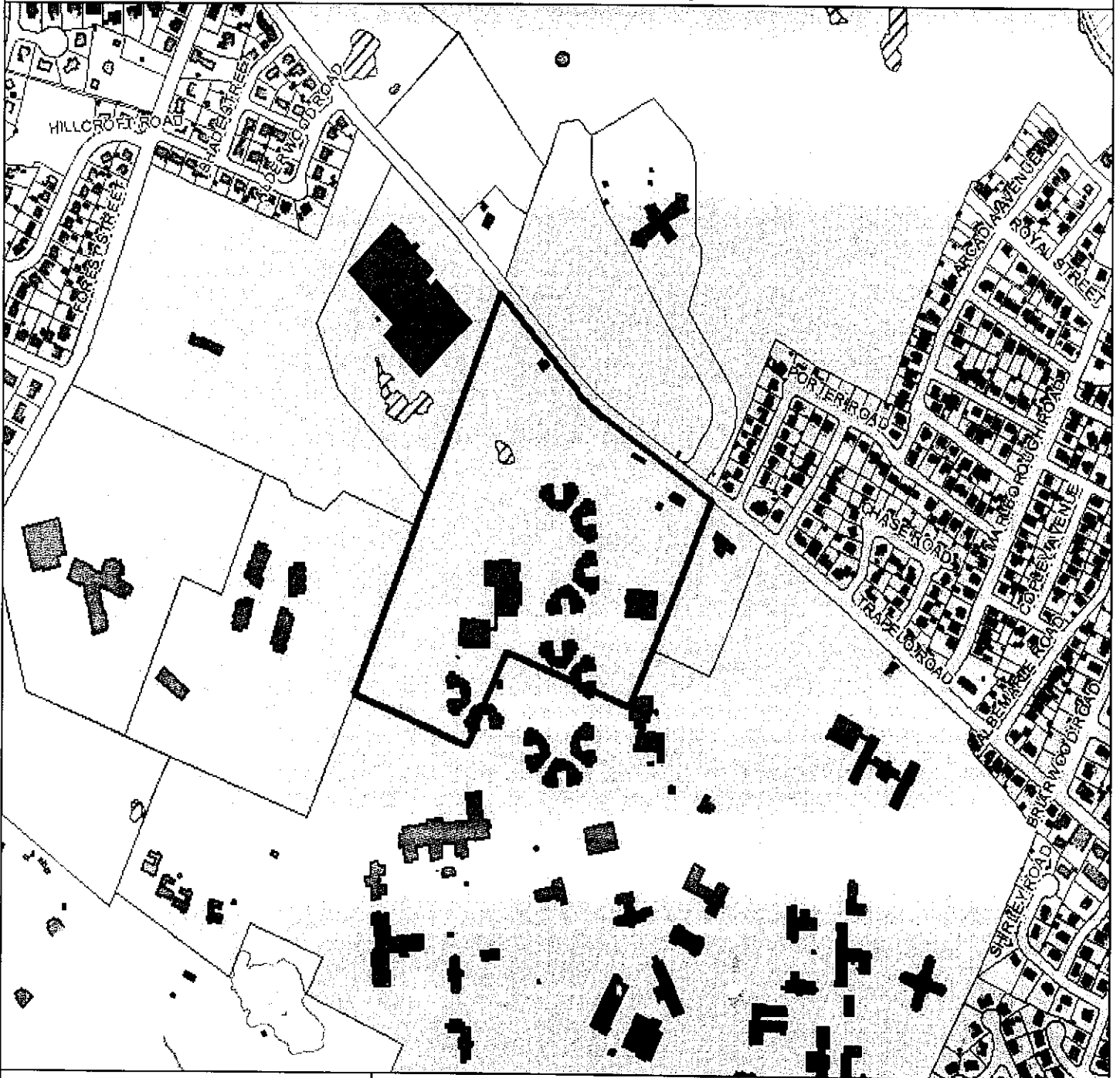


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Printable Zoning Map



Property Information

Prop ID	R036 008 0001
Location	338 TRAPELO RD
Owner	COMMONWEALTH OF MASS.
Billing Address	200 TRAPELO RD.
City, State Zip	WALTHAM, MA 02452
Legal Ref. Date	5/22/1930
Sale Price	\$0
Lot Size	32.01

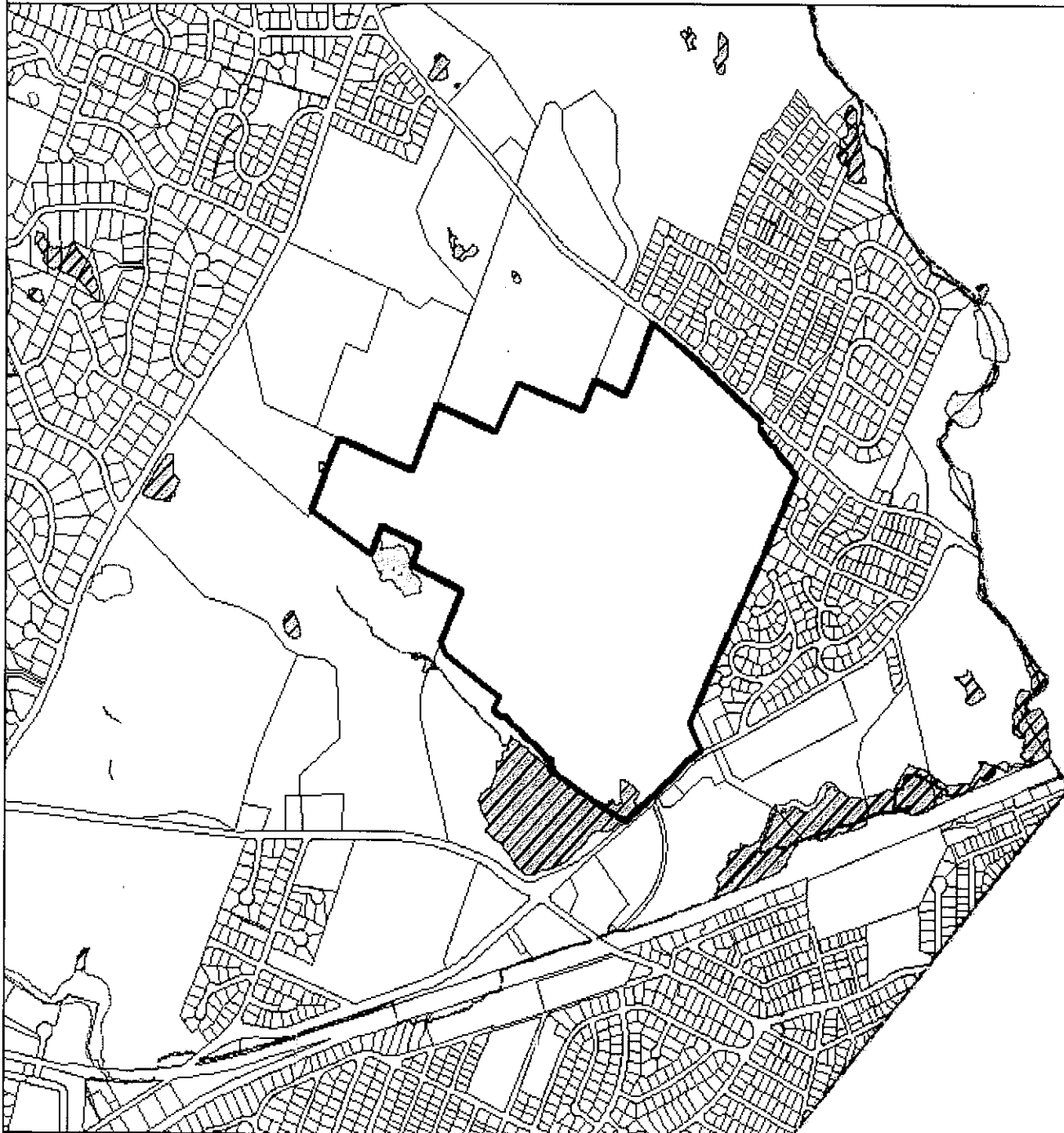


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Printable Interactive Map



Property Information

Prop ID R045 001 0001
Location 190 TRAPELO RD
Owner COMM. OF MASS
Billing Address 200 TRAPELO ROAD
City, State Zip WALTHAM, MA 02452
Legal Ref. Date 10/22/1931
Sale Price \$0
Lot Size 163.05

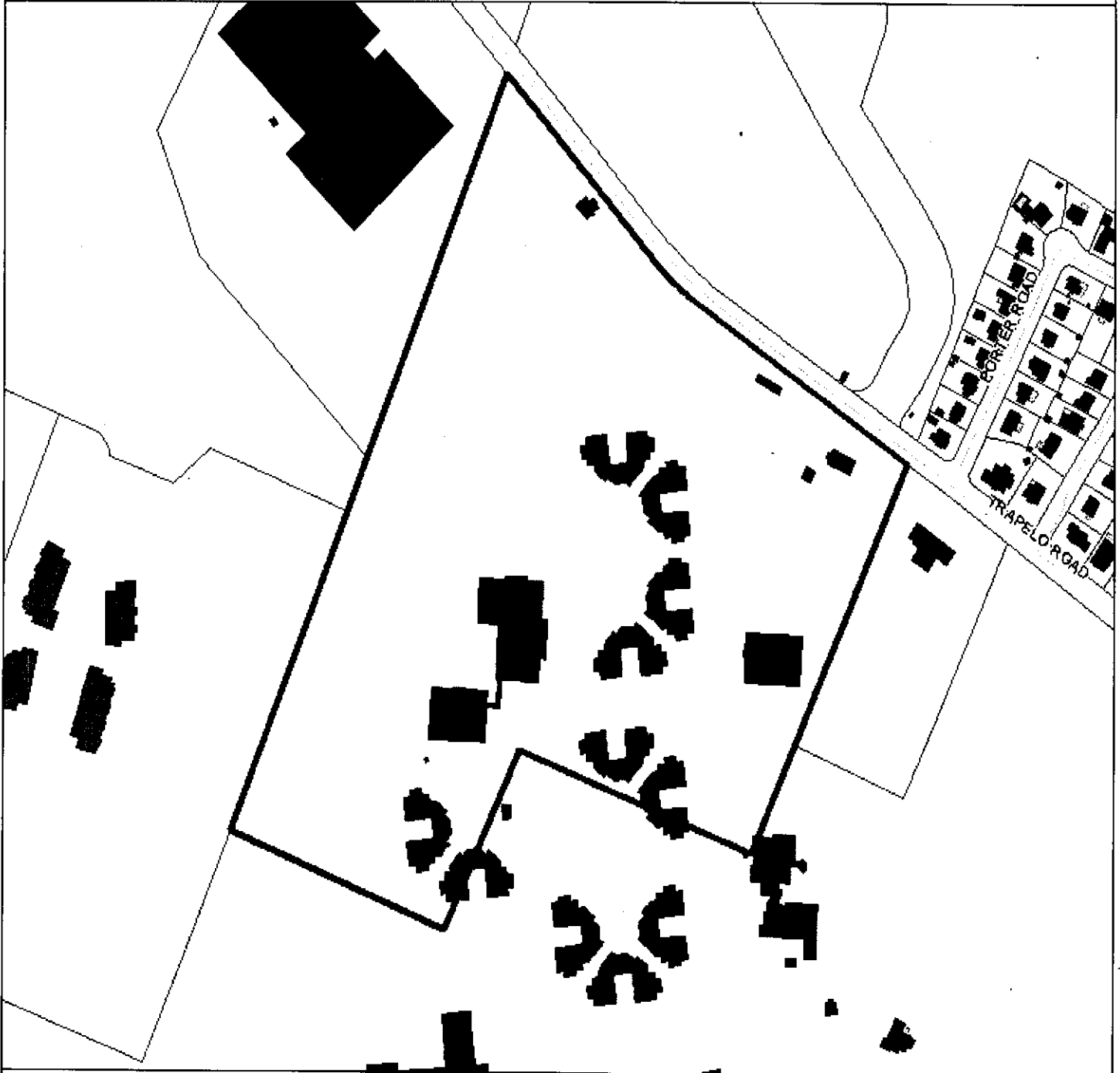


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Printable Parcel Viewer Map



Property Information

Prop ID R036 008 0001
Location 338 TRAPELO RD
Owner COMMONWEALTH OF MASS.
Billing Address 200 TRAPELO RD.
City, State Zip WALTHAM, MA 02452
Legal Ref. Date 5/22/1930
Sale Price \$0
Lot Size 32.01



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Printable Parcel Viewer Map



Property Information

Prop ID R045 003 0005
Location 355 WAVERLEY OAKS RD
Owner YMC REALTY TRUST
Billing Address 355 WAVERLEY OAKS RD
City, State Zip WALTHAM, MA 02452-8403
Legal Ref. Date 7/13/1973
Sale Price \$0
Lot Size 1.24674

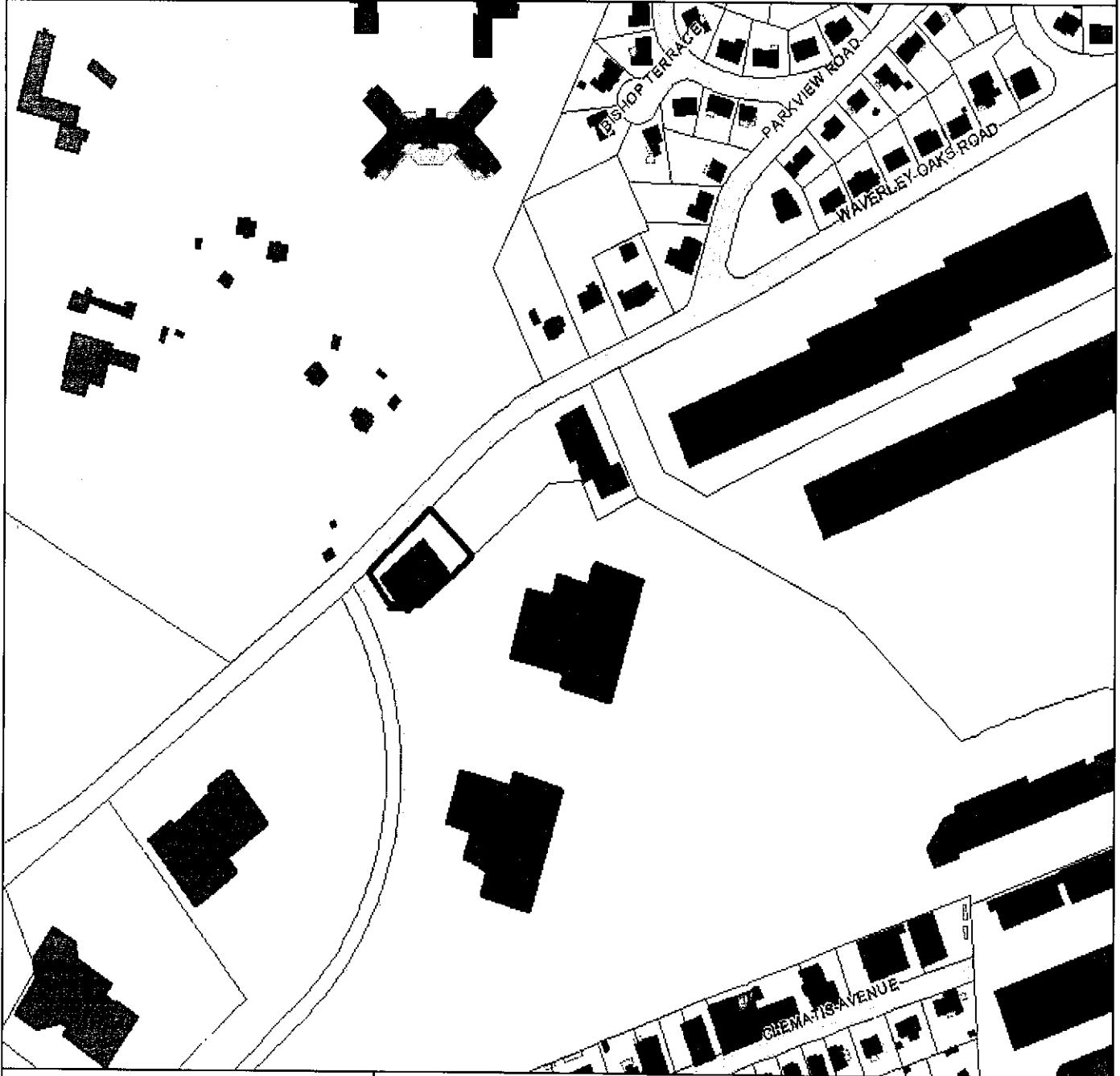


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Printable Parcel Viewer Map



Property Information

Prop ID R045 003 0001
Location 319 WAVERLEY OAKS RD
Owner BUILDING UNLIMITED, INC.
Billing Address 319 WAVERLEY OAKS ROAD
City, State Zip WALTHAM, MA 02452-8403
Legal Ref. Date 7/20/1992
Sale Price \$1
Lot Size 0.47176



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Printable Parcel Viewer Map



Property Information

Prop ID R054 004 0003
Location 307 WAVERLEY OAKS RD
Owner BEAVER GROUP, LLC
Billing Address 411 WAVERLEY OAKS RD
City, State Zip WALTHAM, MA 02452-8405
Legal Ref. Date 12/28/1998
Sale Price \$150,000
Lot Size 26.98347



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Printable Parcel Viewer Map



Property Information

Prop ID R054 004 0002
Location 313 WAVERLEY OAKS RD
Owner COMMONWEALTH OF MASS.
Billing Address 200 TRAPELO ROAD
City, State Zip WALTHAM, MA 02452-6368
Legal Ref. Date 12/12/1905
Sale Price \$0
Lot Size 0.71763



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Printable Parcel Viewer Map



Property Information

Prop ID R054 004 0001
Location 271 WAVERLEY OAKS RD
Owner WESTSHELL, L.L.C.
Billing Address 411 WAVERLEY OAKS RD
City, State Zip WALTHAM, MA 02452-8405
Legal Ref. Date 6/14/1996
Sale Price \$1
Lot Size 5.57899



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Printable Parcel Viewer Map



Property Information

Prop ID R054 001 0001
Location 225 BEAVER ST
Owner COMMONWEALTH OF MASS.
Billing Address 240 BEAVER STREET
City, State Zip WALTHAM, MA 02452-8022
Legal Ref. Date
Sale Price \$0
Lot Size 30.84

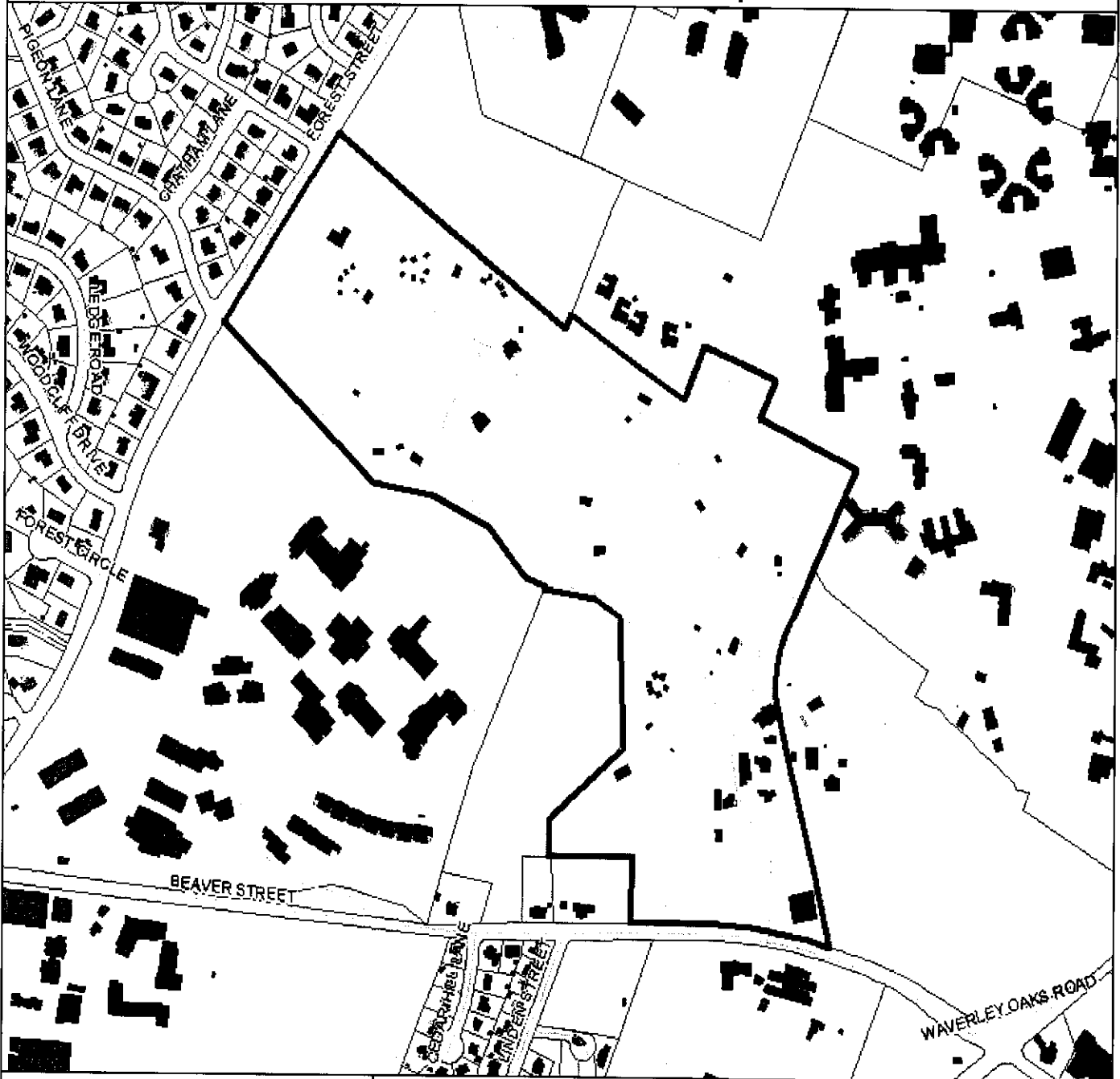


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Printable Parcel Viewer Map



Property Information

Prop ID R044 002 0001
Location 265 BEAVER ST
Owner MASS. GIRL SCOUTS
Billing Address 265 BEAVER STREET
City, State Zip WALTHAM, MA 02452-8021
Legal Ref. Date
Sale Price \$0
Lot Size 75.5



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Printable Parcel Viewer Map



Property Information

Prop ID R035 007 0018
Location FOREST ST
Owner CITY OF WALTHAM
Billing Address 610 MAIN ST.
City, State Zip WALTHAM, MA 02452-5552
Legal Ref. Date 3/31/1923
Sale Price \$0
Lot Size 14.98999



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Printable Parcel Viewer Map



Property Information

Prop ID R035 007 015A
Location 371 FOREST ST
Owner BENTLEY COLLEGE
Billing Address 175 FOREST STREET
City, State Zip WALTHAM, MA 02452-6322
Legal Ref. Date 11/9/2001
Sale Price \$1
Lot Size 22.29217



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Printable Parcel Viewer Map



Property Information

Prop ID R035 007 015C
Location 424 TRAPELO RD
Owner CITY OF WALTHAM, PARK
Billing Address 314 TOTTEN POND ROAD
City, State Zip WALTHAM, MA 02451
Legal Ref. Date 11/9/2001
Sale Price \$1
Lot Size 25.00592

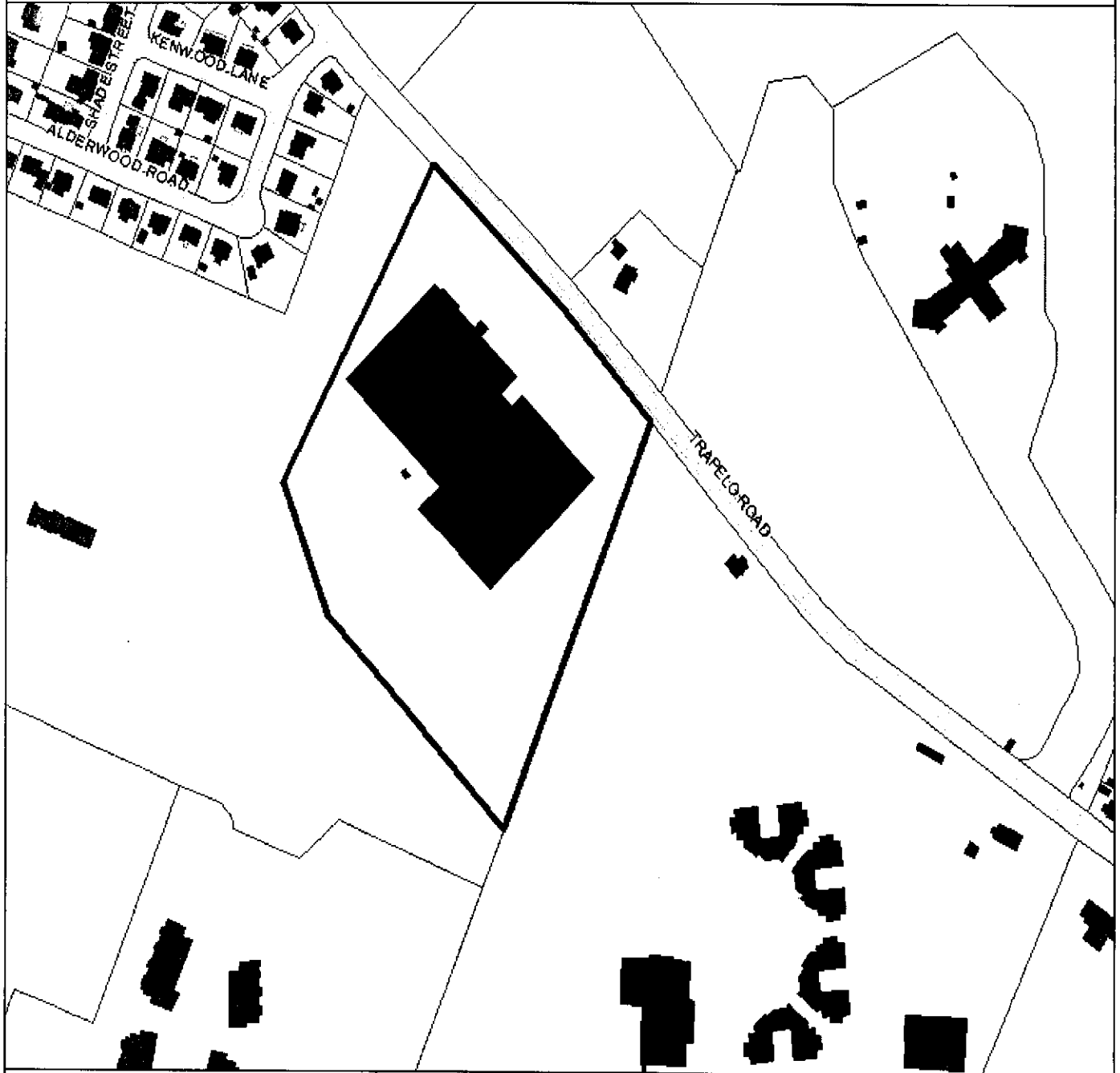


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Printable Parcel Viewer Map



Property Information

Prop ID R035 007 0015
Location 380 TRAPELO RD
Owner AMERICA, UNITED STATES OF
Billing Address 424 TRAPELO RD.
City, State Zip WALTHAM, MA 02452-6322
Legal Ref. Date 1/1/1944
Sale Price \$0
Lot Size 11.94316



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Printable Parcel Viewer Map



Property Information

Prop ID R036 001 0001
Location 385 TRAPELO RD
Owner ALTHEA H. MILLETT REALTY TR;
Billing Address 385 TRAPELO ROAD
City, State Zip WALTHAM, MA 02452-6318
Legal Ref. Date 2/9/2001
Sale Price \$100
Lot Size 1



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Printable Parcel Viewer Map



Property Information

Prop ID R036 001 002C
Location 475 TRAPELO RD
Owner CITY OF WALTHAM
Billing Address 610 MAIN ST
City, State Zip WALTHAM, MA 02452-5552
Legal Ref. Date 2/6/2003
Sale Price \$600,000
Lot Size 11.15278

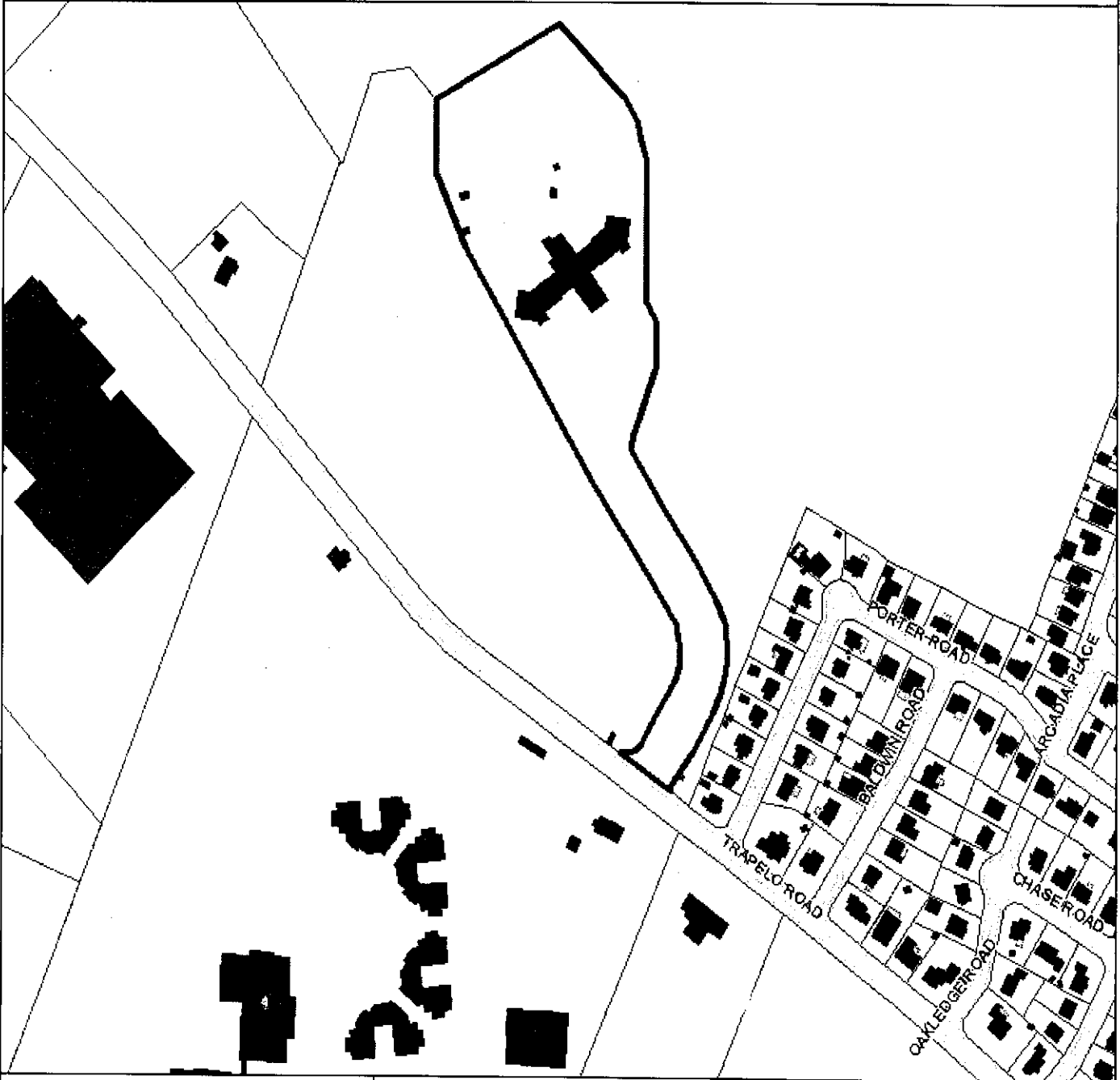


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Printable Parcel Viewer Map



Property Information

Prop ID R036 001 002B
Location 285 TRAPELO RD
Owner CITY OF WALTHAM
Billing Address 610 MAIN ST
City, State Zip WALTHAM, MA 02452-5552
Legal Ref. Date 6/29/2005
Sale Price \$1,750,000
Lot Size 7.3857

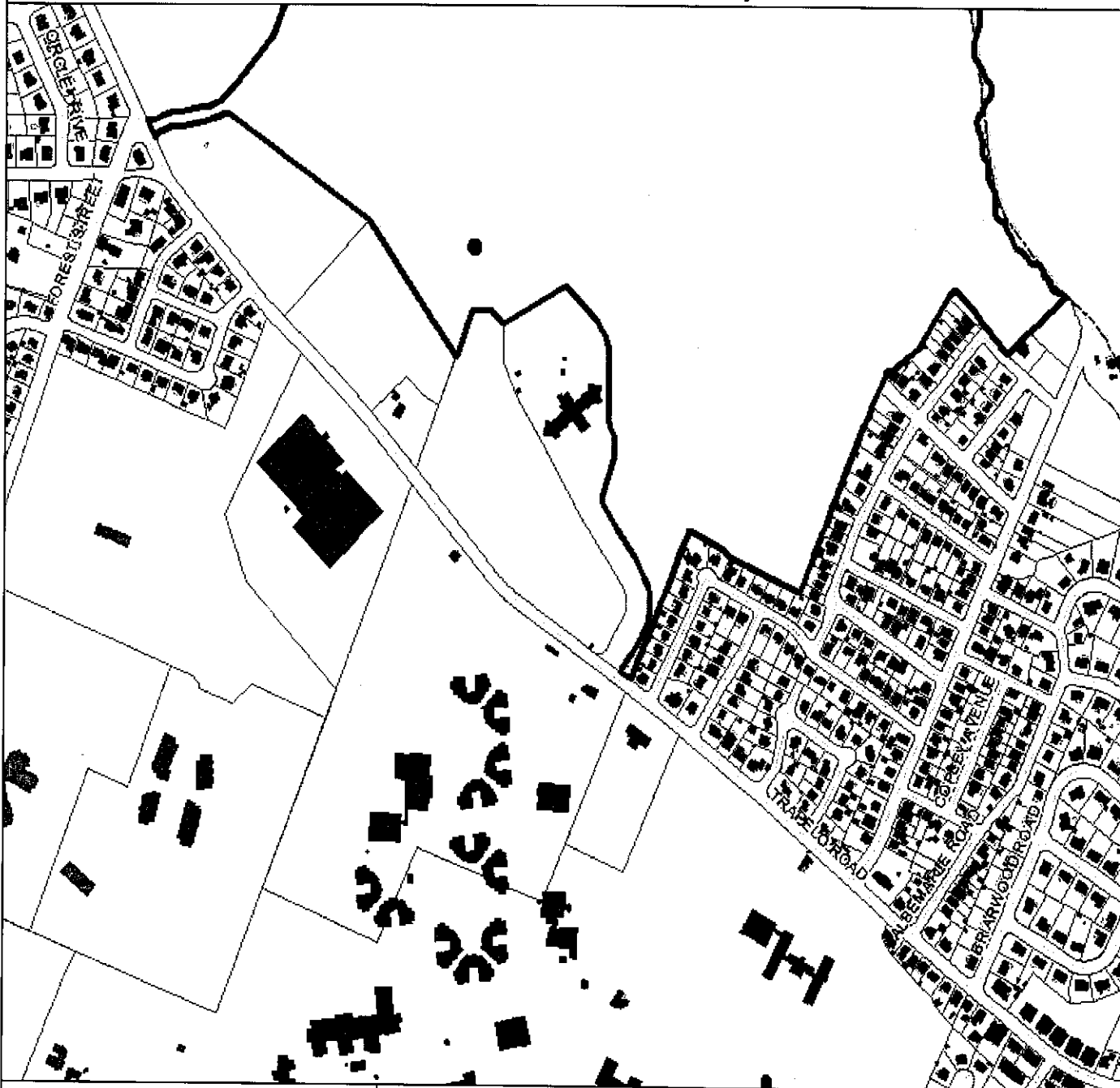


**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

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Printable Parcel Viewer Map



Property Information

Prop ID R036 001 0002
Location 475 TRAPELO RD
Owner COMMONWEALTH OF MASS.
Billing Address 475 TRAPELO RD.
City, State Zip WALTHAM, MA 02452-6374
Legal Ref. Date
Sale Price \$0
Lot Size 162



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Printable Parcel Viewer Map



Property Information

Prop ID R036 008 0003
Location 258 TRAPELO RD
Owner CITY OF WALTHAM
Billing Address 610 MAIN STREET
City, State Zip WALTHAM, MA 02452-5552
Legal Ref. Date
Sale Price \$0
Lot Size 3.60301



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Printable Parcel Viewer Map



Property Information

Prop ID R035 007 015B
Location 333 FOREST ST
Owner NEW JEWISH HIGH SCHOOL
Billing Address 333 FOREST ST.
City, State Zip WALTHAM, MA 02452-6322
Legal Ref. Date 11/9/2001
Sale Price \$1
Lot Size 17.42475



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Printable Parcel Viewer Map



Property Information

Prop ID R046 011 0011
Location 411 WAVERLEY OAKS RD
Owner DBCI, INC.
Billing Address 411 WAVERLEY OAKS RD.#340
City, State Zip WALTHAM, MA 02453
Legal Ref. Date 8/23/2000
Sale Price \$10
Lot Size 7.27998



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Printable Parcel Viewer Map



Property Information

Prop ID R046 011 0010
Location 425 WAVERLEY OAKS RD
Owner DUFFY BROS., INC.
Billing Address 411 WAVERLEY OAKS RD.#340
City, State Zip WALTHAM, MA 02453
Legal Ref. Date 10/10/1973
Sale Price \$0
Lot Size 12.87966



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Printable Parcel Viewer Map



Property Information

Prop ID R054 004 0004
Location 135 BEAVER ST
Owner CLEMATIS LIMITED PARTNERSHIP
Billing Address 411 WAVERLEY OAKS ROAD
City, State Zip WALTHAM, MA 02452-8405
Legal Ref. Date 3/1/1985
Sale Price \$0
Lot Size 3.76566



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City of Waltham Printable Abutter List

Total Count: 45



Close

ParcelID	Location	Owner	Co-Owner	Co-Owner2	Owner Address	Owner CityStateZip
R046 002 0015	106 SHIRLEY RD	106 SHIRLEY RD. RLTY. TR;	RICHARD & ANN M. DONNELLY TR.		106 SHIRLEY RD.	WALTHAM, MA 02452-8035
R037 020 0001	158 TRAPELO RD	158 TRAPELO ROAD NOMINEE	TRUST, MARY., JAMES & C/O	CAROLYN M CALLAHAN, TRS.	300 SUMMER ST. #31	BOSTON, MA 02210-1115
R046 002 0042	48 SHAWMUT RD	ABKARIAN, ALBERT & LINDA			48 SHAWMUT ROAD	WALTHAM, MA 02452-8014
R045 001 0002	29 TIP TOP TERR	ANTONUCCI, BERNARDINE A.			29 TIPTOP TER.	WALTHAM, MA 02452
R037 020 0005	140 TRAPELO RD	ATTARDO, JOSEPH L.			140 TRAPELO ROAD	WALTHAM, MA 02451
R054 004 0003	307 WAVERLEY OAKS RD	BEAVER GROUP, LLC	C/O DUFFY ASSOC.		411 WAVERLEY OAKS RD	WALTHAM, MA 02452-8405
R035 007 015A	371 FOREST ST	BENTLEY COLLEGE			175 FOREST STREET	WALTHAM, MA 02452-6322
R045 003 0001	319 WAVERLEY OAKS RD	BUILDING UNLIMITED, INC.			319 WAVERLEY OAKS ROAD	WALTHAM, MA 02452-8403
R037 017 0010	163 TRAPELO RD	BURKEY, DANIEL D. & REBECCA			163 TRAPELO ROAD	WALTHAM, MA 02452
R045 001 0009	4 BISHOP TERR	BYAMUGISHA, JOYCE & SHALTO	BYAMUGISHA		4 BISHOP TERRACE	WALTHAM, MA 02452
R036 008 0003	258 TRAPELO RD	CITY OF WALTHAM			610 MAIN STREET	WALTHAM, MA 02452-5552
R035 007 0016	FOREST ST	CITY OF WALTHAM			610 MAIN ST.	WALTHAM, MA 02452-5552
R045 001 0001	190 TRAPELO RD	COMM. OF MASS	FERNALD, WALTER STATE SCHOOL		200 TRAPELO ROAD	WALTHAM, MA 02452
R036 008 0001	338 TRAPELO RD	COMMONWEALTH OF MASS.			200 TRAPELO RD.	WALTHAM, MA 02452
R054 001 0001	225 BEAVER ST	COMMONWEALTH OF MASS.			240 BEAVER STREET	WALTHAM, MA 02452-8022
R054 004 0002	313 WAVERLEY OAKS RD	COMMONWEALTH OF MASS.	W E F S SCHOOL		200 TRAPELO ROAD	WALTHAM, MA 02452-6368
R045 001 0008	30 PHILLIPS CIR	HABESHIAN, VAHE & SONIA	SIRAN TAMAKIAN HABESHIAN		30 PHILLIPS CIRCLE	WALTHAM, MA 02452-8047
R037 020 0006	136 TRAPELO RD	HUNTER, JOHH D. &	LYNN A. STAZZONE		136 TRAPELO ROAD	WALTHAM, MA 02451
R045 001 0013	366 WAVERLEY OAKS RD	J.C. REAL ESTATE TRUST,	ALICE A. MORREALE, TR.	C/O CLAIRE DESISTO	P.O. BOX 1156	E. DENNIS, MA 02641
R046 002 0041	54 SHAWMUT RD	KANTARJIAN, LARA			54 SHAWMUT RD.	WALTHAM, MA 02452-8014

R045 001 0010	10 BISHOP TERR	KEARNEY, JAMES W. & JANICE	10 BISHOP TERRACE	WALTHAM, MA 02452
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R046 002 0002	126 TRAPELO RD	KIM, JADIE			126 TRAPELO RD.	WALTHAM, MA 02452
R045 001 0012	360 WAVERLEY OAKS RD	LAWRENCE, BARBARA L. & JAMES E. MESTHENE			360 WAVERLEY OAKS ROAD	WALTHAM, MA 02452-6209
R037 020 0003	150 TRAPELO RD	LEWIS, ROBERT C. & ATSUKO			150 TRAPELO ROAD	WALTHAM, MA 02452
R037 020 0004	146 TRAPELO RD	LICATA, STEPHANIE & GARY	F. FLEISCHMAN		146 TRAPELO ROAD	WALTHAM, MA 02451
R036 005 0006	6 CHASE RD	LYCHAKOV, IGOR & ALLA	LYCHAKOVA		6 CHASE ROAD	WALTHAM, MA 02452-6402
R046 002 0019	84 SHIRLEY RD	MALIZIA, ANTHONY M. &	ROSE C. H&UX, T/E		84 SHIRLEY RD.	WALTHAM, MA 02452-8035
R046 002 0018	88 SHIRLEY RD	MARCHAND, EDWIN F.; LIFE EST;	JUDITH BOYD, JANE, STEVEN,	MICHAEL & EDWIN MARCHAND III	88 SHIRLEY RD.	WALTHAM, MA 02452-8035
R046 002 0001	132 TRAPELO RD	MARDIROSSIAN, ANNIE FKA ANI	AKOGLHANIAN		132 TRAPELO ROAD	WALTHAM, MA 02452
R045 001 0005	60 PHILLIPS CIR	MARY F. GOTSELL TRUST	KATHLEEN & WILLIAM GARVEY,	EXEC.	91 OLD COLONY DR.	SO. WEYMOUTH, MA 02190
R044 002 0001	265 BEAVER ST	MASS. GIRL SCOUTS			265 BEAVER STREET	WALTHAM, MA 02452-8021
R037 020 0002	152 TRAPELO RD	MCDONALD, EDWARD J., JR. &	PATRICE M.		152 TRAPELO ROAD	WALTHAM, MA 02452
R037 017 0011	171 TRAPELO RD	MILLERICK RESIDENCE TRUST,	ELAINE& BRIAN MILLERICK &	PHILIP J. NOTOPOULOS,TRS	171 TRAPELO ROAD	WALTHAM, MA 02452
R036 007 006B	251 TRAPELO RD	ORTIZ, JOSE A. & NINA M. R/S			251 TRAPELO ROAD	WALTHAM, MA 02452-6317
R046 002 0016	100 SHIRLEY RD	POIRIER, ROBERT &	GAIL K.H&UX		100 SHIRLEY RD.	WALTHAM, MA 02452-8035
R046 002 0017	94 SHIRLEY RD	REST, JAMES W. & MARY KAY	BROWNE		94 SHIRLEY RD.	WALTHAM, MA 02452-8035
R045 001 0007	40 PHILLIPS CIR	RIOS, VICTOR &	NASTASI, H&UX T/E		40 PHILLIPS CIRCLE	WALTHAM, MA 02452-8047
R036 005 0007	211 TRAPELO RD	SAHAN,SERKIZ & NURITSE			211 TRAPELO RD.	WALTHAM, MA 02452
R045 001 0011	15 BISHOP TERR	SARKISSIAN, ROUPEN & SOSSY			15 BISHOP TERRACE	WALTHAM, MA 02452-8048
R046 002 0003	122 TRAPELO RD	SICILIANO, ERIC			122 TRAPELO RD.	WALTHAM, MA 02452
R046 002 0014	112 SHIRLEY RD	SMERLAS, JOHN L. & FRANCINE	S. JUDD; RTS. OF SURVIVORSHIP		112 SHIRLEY ROAD	WALTHAM, MA 02452-8035

R045 001 0003	34 TIP TOP TERR	STEPANIAN, SARKIS &	SHOUSHAN		34 TIPTOP TERRACE	WALTHAM, MA 02452
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R045 001 0006	50 PHILLIPS CIR	TXABARRIAGA, ROCIO & MICHAEL	WARNER	50 PHILLIPS CIR.	WALTHAM, MA 02452-8047
R054 004 0001	271 WAVERLEY OAKS RD	WESTSHELL, L.L.C.		411 WAVERLEY OAKS RD	WALTHAM, MA 02452-8405
R045 003 0005	355 WAVERLEY OAKS RD	YMC REALTY TRUST	YOLANDA M. CELLUCCI TR.	355 WAVERLEY OAKS RD	WALTHAM, MA 02452-8403

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City of Waltham Printable Abutter List

Total Count: 7



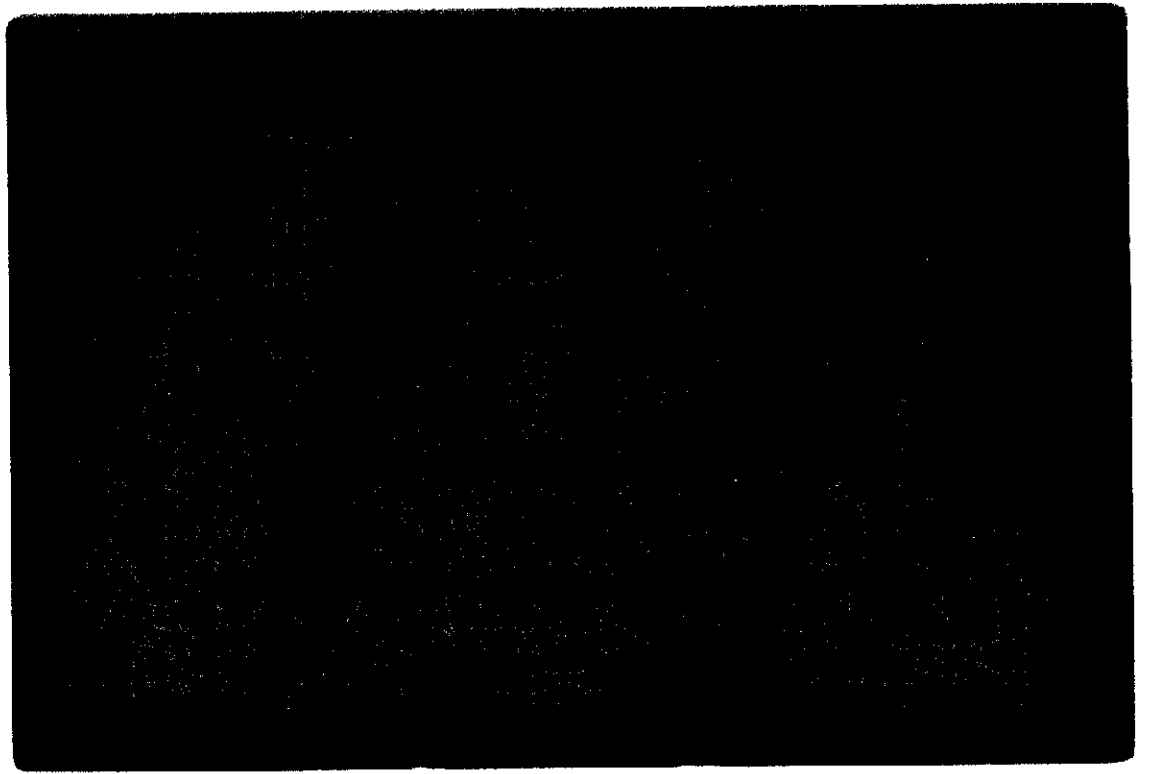
Close

ParcelID	Location	Owner	Co-Owner	Co-Owner 2	Owner Address	Owner CityStateZip
R035 007 0015	380 TRAPELO RD	AMERICA, UNITED STATES OF			424 TRAPELO RD.	WALTHAM, MA 02452-6322
R035 007 015A	371 FOREST ST	BENTLEY COLLEGE			175 FOREST STREET	WALTHAM, MA 02452-6322
R036 001 002C	475 TRAPELO RD	CITY OF WALTHAM			610 MAIN ST	WALTHAM, MA 02452-5552
R036 008 0003	258 TRAPELO RD	CITY OF WALTHAM			610 MAIN STREET	WALTHAM, MA 02452-5552
R035 007 015C	424 TRAPELO RD	CITY OF WALTHAM, PARK & RECREATION DEPT			314 TOTTON POND ROAD	WALTHAM, MA 02451
R045 001 0001	190 TRAPELO RD	COMM. OF MASS	FERNALD, WALTER	STATE SCHOOL	200 TRAPELO ROAD	WALTHAM, MA 02452
R036 008 0001	338 TRAPELO RD	COMMONWEALTH OF MASS.			200 TRAPELO RD.	WALTHAM, MA 02452

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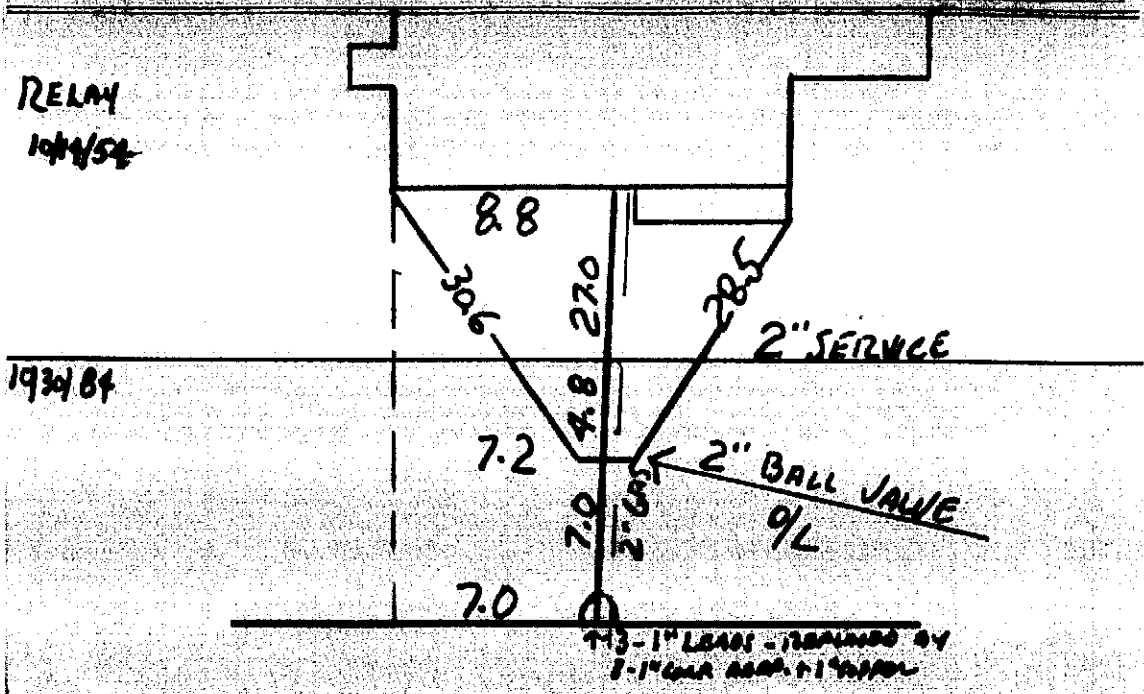
Waltham Engineering Department





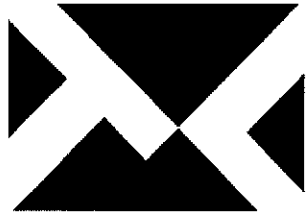
NO 338 TRAPELO RD

SERVICE NO. 4515-W



10/30/84 REPLACED LEADS (3) WITH 1" COPPER (2AE)
 NEW 2" BALL VALVE 9/16 (3) 1" COPPER ADAPTER - (3) 1/2" ANGLE JOINTS

No sewer cap



TechLaw

175 Cabot Street, Suite 415, Lowell, MA 01854 • Phone: (978) 275-9730 • Fax: (978) 275-9489

Telephone Conversation Record

Date: 7/30/2009

Caller (name/affiliation): Gretchen Fodor, TechLaw Phone No.: 978-275-9730

Person Called (name/affiliation): Kate, Waltham Phone No.: 5781-314-3810

Engineering Billing Clerk

Subject: Verification of water + sewer connections

Conversation Record:

Kate had records indicating that ^{municipal} water and sewer connections were inactive (but present) for

- 180 Trapelo Road
 - 282
 - 338
- ↓
- } residences along Trapelo Road

Quality and Integrity

Waltham Health Department



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

March 19, 2008
Project No. 4953

Mr. Walter S. Sweder
Director of Public Health
City of Waltham Health Department
119 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Class A-3 Response Action Outcome Report
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Mr. Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification for the submittal of a Class A-3 Response Action Outcome and Activity and Use Limitation (AUL) for the release of No. 6 fuel oil from three underground storage tanks formerly located at the Fernald Center Power Plant located at 200 Trapelo Road in Waltham, Massachusetts, hereinafter, the "Site." The Department of Environmental Protection - Northeast Regional Office (DEP-NERO) was first notified of the release on February 20, 1996 and the Site was assigned Release Tracking Number (RTN) 3-13467. The Response Action Outcome Statement was issued to the DEP-NERO on March 19, 2008. Please find a copy of a Registry of Deeds-certified copy of the above mentioned AUL enclosed with this letter. A copy of the referenced report is available for review at the DEP-NERO. If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists, Incorporated



Brian F. Klingler, PG, LSP
Principal Geologist

FJC:BFK;jd
Z://4953 - AUL Public Involvement Notices.doc

cc: DEP-NERO
Ms. Ellen M. Howe, DMR
Mayor Jeannette A. McCarthy
Mr. Ronald G. Vokey, Planning Department



Bk: 50880 Pg: 306 Doc: NOT
Page: 1 of 20 03/14/2008 08:58 AM

Form 1075

NOTICE OF ACTIVITY AND USE LIMITATION

M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: The Fernald Center Power Plant
200 Trapelo Road
Waltham, Massachusetts

DEP Release Tracking No.(s): 3-13467

This Notice of Activity and Use Limitation ("Notice") is made as of this 14th day of March, 2008, by the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation at 500 Harrison Avenue in Boston, Massachusetts 02118, together with its successors and assigns (collectively "Owner").

WITNESSETH:

WHEREAS, the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation at 500 Harrison Avenue in Boston, Massachusetts, is the owner in fee simple of that certain parcel of land located at 200 Trapelo Road in Waltham, Middlesex County, Massachusetts with the buildings and improvements thereon, pursuant, in part, to a deed recorded with the Middlesex County Registry of Deeds in Book 5600, Page 550, with the remaining portion of the property being unrecorded land;

WHEREAS, said parcel of land, which is partially described in Exhibit A, attached hereto and made a part hereof ("Property") is subject to this Notice of Activity and Use Limitation. The Property is shown, in part, on two plans recorded with the Middlesex County Registry of Deeds in Plan Book 2008, Page 104, and in a plan dated December 26, 1903 and revised in 1922, with the remaining portion of the Property being unrecorded land;

WHEREAS, a portion of the Property ("Portion of the Property") is subject to this Notice of Activity and Use Limitation. The Portion of the Property is more particularly bounded and described in Exhibit A-1, attached hereto and made a part hereof. The Portion of the Property is shown on a plan recorded with the Middlesex County Registry of Deeds in Plan Book 2008, Page 104, and on a sketch plan attached hereto;

WHEREAS, the Portion of the Property comprises all of a disposal site as the result of a release of oil and/or hazardous material. Exhibit B is a sketch plan showing the relationship of the Portion of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site existing within the limits of the Property and to the extent such boundaries have been established. Exhibit B is attached hereto and made a part hereof; and

WHEREAS, one or more response actions have been selected for the Disposal Site in accordance with M.G.L. c. 21E ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and/or hazardous material in soil and/or (b) the restriction of

T. Ref: Bk Pg
5600 - 550

Conoco Environmental
4 First Street
Bridgewater, MA 02324

certain activities occurring in, on, through, over or under the Portion of the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion"), dated March 6, 2008 (which is attached hereto as Exhibit C and made a part hereof);

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

1. Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Portion of the Property:

- (i) Any activities and uses consistent with the current use of the Portion of the Property as a power plant facility and parking area;
- (ii) Activities and uses including, but not limited to, maintenance of the asphalt-paved driveway and parking area within the designated AUL Area which do not cause direct contact with, disturbance, or relocation of, the contaminated soil within the designated AUL Area;
- (iii) Excavation associated with limited short term utility work which may be deemed necessary within the designated AUL Area, provided that it is conducted in accordance with the performance standards for Utility Related Abatement Measures (URAMs) set forth by the MCP at 310 CMR 40.0030, and all applicable worker health and safety practices pursuant to 310 CMR 40.0018;
- (iii) Subsurface activities and/or construction, including but not limited to excavation associated with future construction of buildings and other improvements to support permitted uses on the property which may disturb contaminated soils, provided that such work is conducted in accordance with a Soil Management Plan developed in accordance with Obligation (ii) as set forth in Notice of AUL Item 3;
- (v) Activities and uses not expressly prohibited by the Notice of AUL;
- (vi) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Paragraph; and
- (vii) Such other activities and uses not identified in Paragraph 2 as being Activities and Uses Inconsistent with the AUL.

2. Activities and Uses Inconsistent with the AUL Opinion. Activities and uses which are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Portion of the Property, may result in a

significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:

- (i) The use of buildings located with the Portion of the Property as an office, store, residence, school, or daycare facility;
- (ii) The cultivation of fruits and vegetables destined for human consumption (e.g., gardening);
- (iii) Recreational activities, such as playing baseball, swimming, fishing and hiking;
- (iv) Leisure activities, such as picnicking, sunbathing and entertaining;
- (v) Relocation of the contaminated soils within the designated AUL Area unless an LSP Opinion is rendered which attests that a condition of "No Significant Risk" is maintained, consistent with the provisions of the MCP; and
- (vi) Any subsurface activity or excavation which may result in direct contact with, disturbance, or relocation of contaminated soils between 2 and 15 feet which is not conducted in accordance with Obligations of the Notice of AUL.

3. Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Portion of the Property to maintain a condition of No Significant Risk as set forth in the AUL Opinion shall include the following:

- (i) Prior to the performance of major excavation work which may encounter impacted soils known to exist at depth, or in the event that evidence of petroleum contamination is encountered during shallow excavation work, a Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified professional familiar with worker health and safety procedures and requirements. The Health and Safety Plan must specify the level of personal protection and engineering controls, dust mitigative procedures, and perimeter monitoring necessary to prevent both worker and other receptor exposures to contaminated soils below current site grading. The Health and Safety Plan must also detail the type of protective clothing (i.e. gloves, Tyvek clothing, etc.), respiratory protection, environmental monitoring, and mechanical equipment necessary to prevent exposures to petroleum products via inhalation, ingestion and/or direct dermal contact;
- (ii) Prior to the performance of major excavation work which may encounter impacted soils known to exist at depth, or in the event that evidence of petroleum contamination is encountered during shallow excavation work, a Soil Management Plan must be prepared by a LSP and must describe soil

excavation, handling, storage, on-site reuse, transport, and disposal procedures. Petroleum-impacted soils excavated below currently existing surface grades must either be reused within the Portion of the Property at the same depths or greater below final grades, or must be transported off-site for appropriate disposal. The Soil Management Plan must also include a description of the engineering controls and air monitoring procedures necessary at the site to ensure that receptors in the vicinity of the site are not impacted by petroleum products, fugitive dust, particulates, or exposures to contaminated soil via inhalation, dermal contact and/or ingestion; and

- (iii) Full and immediate repair/replacement of the asphalt following the completion of excavation activities associated with limited short term utility work performed in accordance with Obligations (i) and (ii) above.

4. Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Portion of the Property which may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.

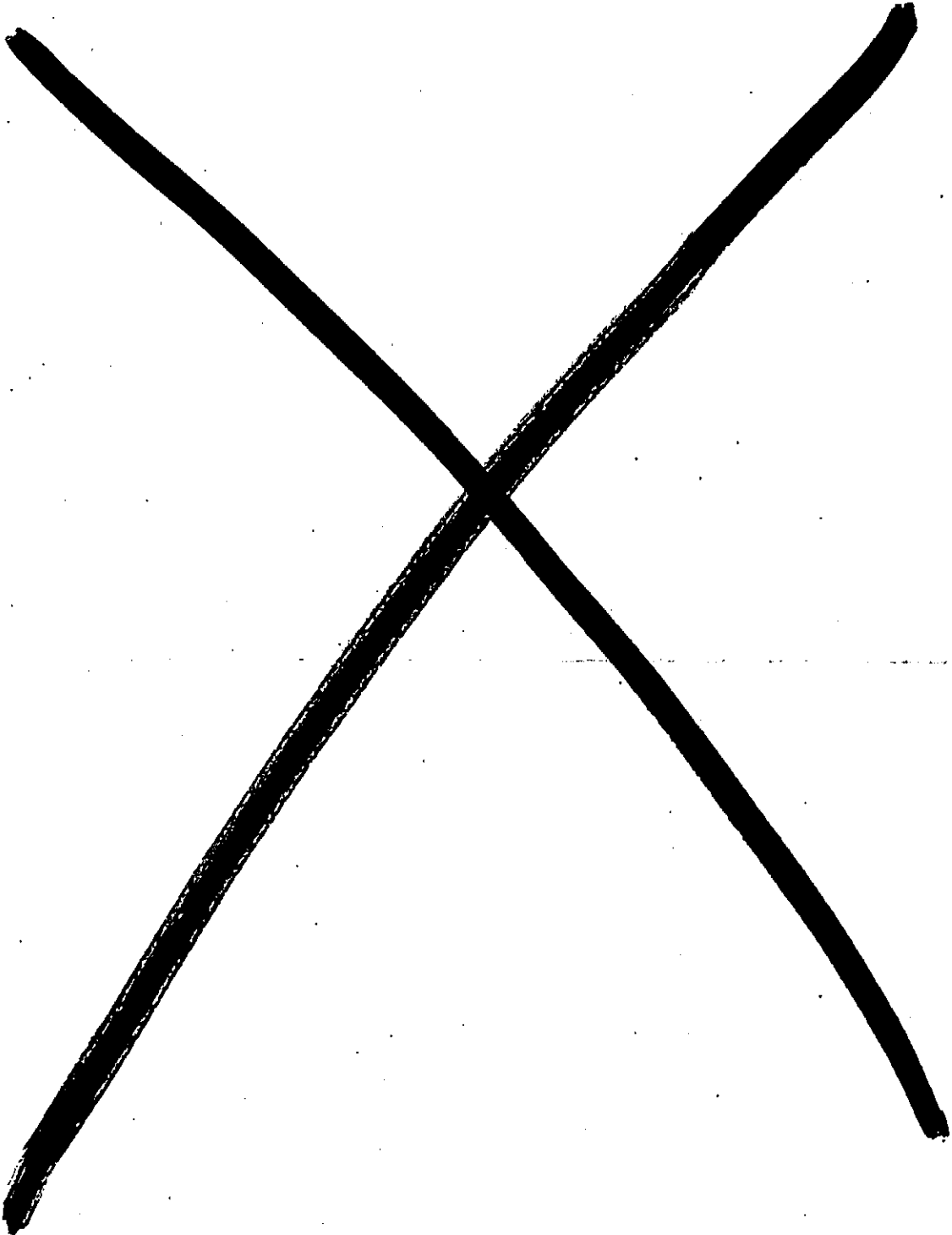
5. Violation of a Response Action Outcome. The activities, uses and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk of harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses, and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Portion of the Property subject to this Notice at the time that the activities, uses and/or exposures change, shall comply with the requirements set forth in 310 CMR 40.0020.

6. Incorporation Into Deeds, Mortgages, Leases, and Instruments of Transfer. This Notice shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

Owner hereby authorizes and consents to the filing and recordation and/or registration of this Notice, said Notice to become effective when executed under seal

by the undersigned LSP, and recorded and/or registered with the appropriate Registry(ies) of Deeds and/or Land Registration Office(s).



WITNESS the execution hereof under seal this 11th day of March, 2008.
2008.

By: Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Mental Retardation

Elin M. Howe

Elin M. Howe
Commissioner

COMMONWEALTH OF MASSACHUSETTS

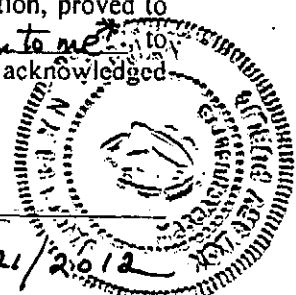
Suffolk, ss

March 11, 2008

On this 11 day of March, 2008, before me, the undersigned notary public, personally appeared Elin M. Howe, Commissioner of the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation, proved to me through satisfactory evidence of identification, which were personally known to me to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

** Elin Howe is the Commissioner of the Massachusetts Dept of Mental Retardation and I am one of the attorneys in her employ.*

J. Berman
Notary Public:
My Commission Expires: 12/21/2012
Jacquelyn Berman



The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

Date: 3-13-08

Brian F. Klingler

Brian F. Klingler, P.G., L.S.P.

LSP Seal:



COMMONWEALTH OF MASSACHUSETTS

Plymouth County, ss

March 13, 2008

On this 13th day of MARCH, 2008, before me, the undersigned notary public, personally appeared Brian F. Klingler, P.G., L.S.P., proved to me through satisfactory evidence of identification, which were MA LICENSE, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

Jean M. Delmont
Notary Public:
My Commission Expires: Sept. 22, 2011

Upon recording, return to:

Paul Beaton, P.E.
Project Engineer
Massachusetts Department of Mental Retardation
500 Harrison Avenue
Boston, Massachusetts 02118



Exhibit A

A metes and bounds description of a portion of recorded land located within the larger property which contains the Site is as follows:

COMMENCING Commencing at a point in the dividing line between land of the City of Waltham and land of the Roman Catholic Archbishop of Boston, said bound lying N 37° 49' 30" E a distance of 615.60 feet southerly from its intersection with the southerly line of Trapelo Road;

THENCE S 52° 10' 30" E for a distance of 264.99 feet;

THENCE S 36° 26' 40" W a distance of 51.26 feet;

THENCE S 38° 16' 40" W a distance of 203.22 feet;

THENCE N 48° 33' 50" W a distance of 265.15 feet;

THENCE N 37° 49' 30" E a distance of 237.76 feet to the point of beginning.

Containing 65,340 Square Feet.

The remaining area of the property is composed of unrecorded land owned by the Commonwealth of Massachusetts. No further legal descriptions or title deed is available for the remainder of the property.

Exhibit A-1

A metes and bounds description of the area subject to the AUL is as follows:

COMMENCING Commencing at a drill hole in a stone bound on the southeasterly line of Waverley Oaks Road, said bound lying N 51° 29' 49" E a distance of 1051.13 feet from the center of a stone bound also on the southeasterly line of Waverley Oaks Road which marks the point of curvature at the intersection of the northeasterly line of Beaver Street with the southeasterly line of Waverly Oaks Road;

THENCE N 47°27'49" W for a distance of 579.87 feet to the point of beginning of the herein described AUL area;

THENCE S 10°40'10" W a distance of 123.00 feet;

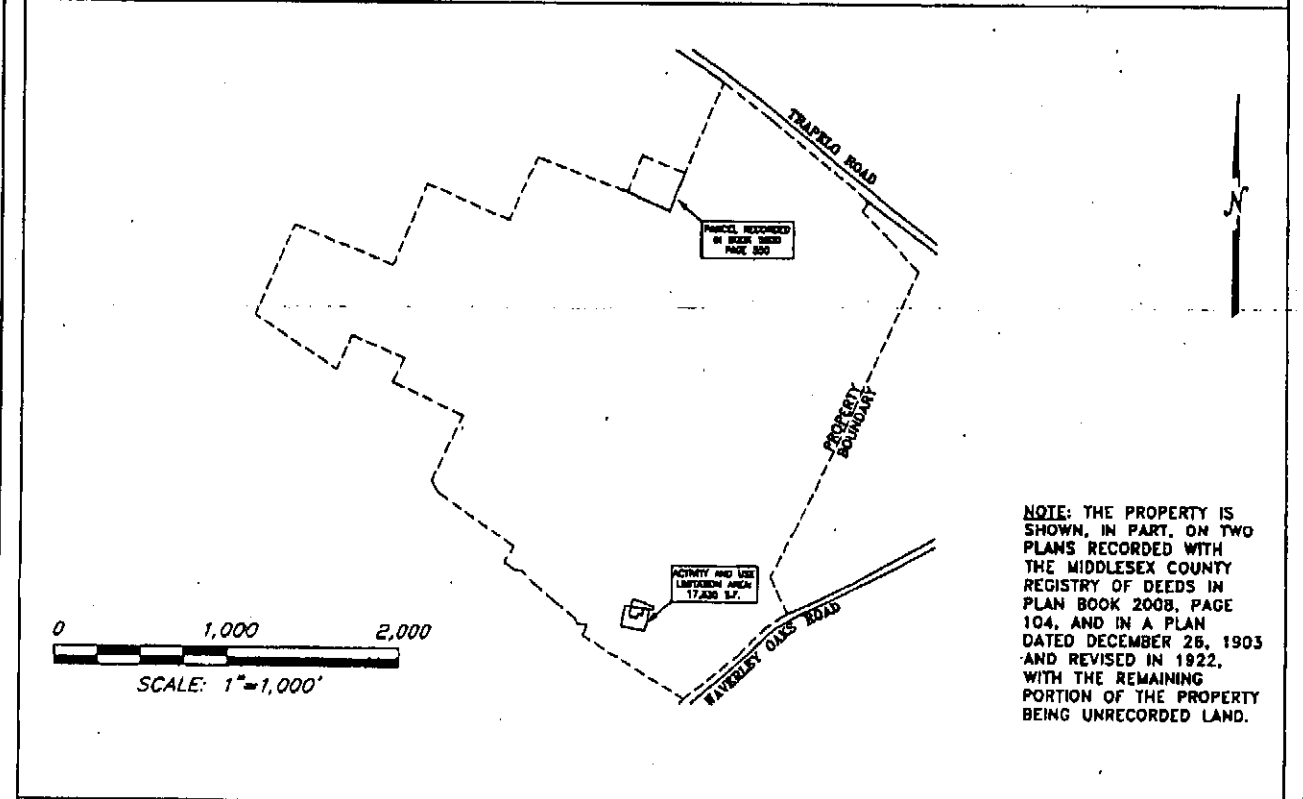
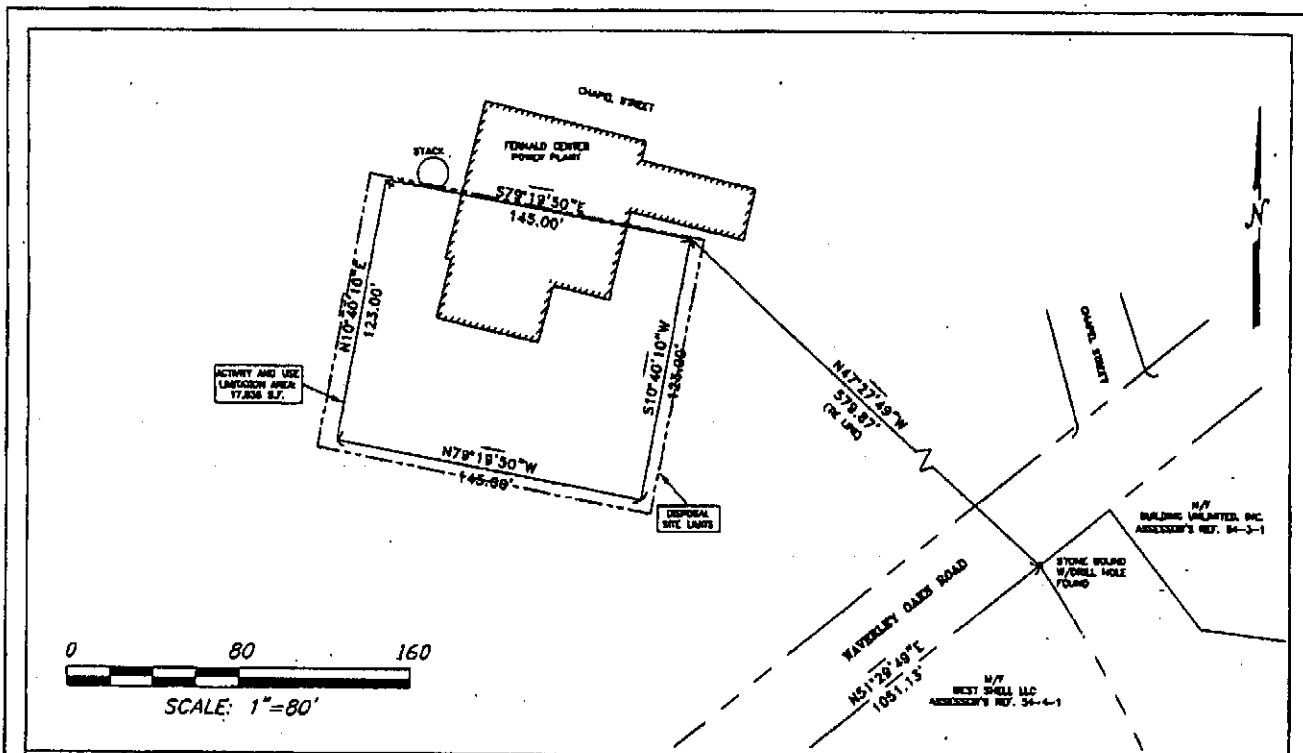
THENCE N 79°19'50" W a distance of 145.00 feet;

THENCE N 10°40'10" E a distance of 123.00 feet;

THENCE S 79°19'50"E a distance of 145.00 feet to the point of beginning.

Containing 17,835 Square Feet and bounded on all sides by other land of the Commonwealth of Massachusetts.

The depth of the area subject to the AUL begins at a depth of approximately 2 feet below surface grade within this area, which comprises an approximate 17,835 square feet and extends 15 feet below the existing surface grade.



NOTE: THE PROPERTY IS SHOWN, IN PART, ON TWO PLANS RECORDED WITH THE MIDDLESEX COUNTY REGISTRY OF DEEDS IN PLAN BOOK 2008, PAGE 104, AND IN A PLAN DATED DECEMBER 26, 1903 AND REVISED IN 1922, WITH THE REMAINING PORTION OF THE PROPERTY BEING UNRECORDED LAND.



4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS (508) 697-3191

SKETCH PLAN OF DISPOSAL SITE
FERNALD CENTER - POWER PLANT
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-13467

BY	DRAWN	CHECKED	CAD FILE NO.	SCALE	PROJECT NO.	DRAWING NUMBER
	FJC	BFK	Z1/4953-Exhibit B.dwg	AS NOTED	4953	EXHIBIT B
DATE	2/4/08	2/15/08				

EXHIBIT "C"

March 6, 2008
Project No. 4953

Bureau of Waste Site Cleanup
Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

RE: **Activity and Use Limitation Opinion**
The Fernald Center - Power Plant
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-13467

Dear Sir or Madam:

In accordance with the specifications of 310-CMR 40.1074, on behalf of the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation (DMR), Coneco Engineers and Scientists (Coneco) has prepared the following Activity and Use Limitation (AUL) Opinion regarding the implementation of an AUL at the above-referenced property, hereinafter, the "Site."

Based upon the Method 1 Risk Characterization performed at the Site, a condition of "No Significant Risk" exists for all current uses of the Site; however, a condition of "No Significant Risk" does not exist for all potential future uses of the Site due to residual petroleum-impacted soil at the Site. To ensure that current and future risk is mitigated at the Site, an AUL is required in the Area of Concern which will limit soil exposure.

HISTORICAL BACKGROUND

Release Identification and Notification

Three No. 6 fuel oil underground storage tanks (USTs) were installed at the Site in 1954, with volumes ranging from 23,000 to 28,000 gallons. On February 20, 1996, personnel of the Fernald Center Power Plant reported that No. 6 fuel oil had released from these USTs and was seeping beneath a concrete retaining wall at the Site. This release reportedly impacted surficial and subsurface soil, an unnamed stream, and a pipe trench associated with the USTs. On this day, this release was reported to the Department of Environmental Protection - Northeast Regional Office (DEP-NERO). This release was assigned release tracking number (RTN) 3-13467.

Immediate Response Actions

At the request of DMR, Vertex Engineering Services, Incorporated (Vertex) of Weymouth, Massachusetts provided oversight for Immediate Response Action (IRA) activities including the deployment of oil absorbent pads and booms at the base of the retaining wall and in the adjacent stream to manually remove oil from the stream area.

An Immediate Response Action Plan (IRAP) was prepared by Vertex and submitted to the DEP-NERO on April 19, 1996. The IRAP consisted of the removal and replacement of the three USTs at the Site. These activities occurred between July and December of 1996. Approximately 1,000 cubic yards of soil and 15,000 gallons of groundwater were reportedly removed from the Site during IRA activities. The excavation was backfilled with clean fill and partially repaved after the completion of excavation activities. An IRA Completion Report was issued by Vertex on May 7, 1997.

Soil samples collected from the sidewalls and bottom of the excavation were submitted by Vertex for laboratory analysis of total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) Method 8100M. Laboratory analytical results of the soil samples indicated that elevated TPH concentrations remained in soil at the Site. As such, additional investigation activities were warranted.

Phase I - Initial Site Investigation / Tier Classification

A Phase I - Initial Site Investigation Report and Tier Classification Submittal were issued by Vertex on February 20, 1997. This investigation included a review of records available at state, federal, and local agencies, the performance of test borings, and the installation of seven groundwater monitoring wells at the Site. Four monitoring wells, designated MW-1 through MW-4, were installed outside the Fernald Power Plant building situated hydraulically upgradient and downgradient from the former USTs. Three monitoring wells, designated MW-B1 through MW-B3, were installed in the basement of the Fernald Power Plant building situated hydraulically crossgradient and downgradient from the former USTs. Soil samples collected during these subsurface investigation activities were submitted for laboratory analysis of TPH by EPA Method 8100M, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270, and benzene, toluene, ethyl benzene, and xylenes (BTEX) by EPA Method 8020. Laboratory analytical results of the soil samples indicated that elevated TPH concentrations remained in soil at the Site.

On February 6, 1997, Vertex assessed groundwater conditions at the Site, including gauging and sampling of the monitoring wells. Observations regarding the presence of non-aqueous phase liquid (NAPL) were made at each viable on-Site groundwater monitoring well. NAPL thickness was measured in monitoring wells MW-B1 and MW-B2 at a thickness exceeding 0.5 inches. No evidence of NAPL was detected in monitoring wells at the Site that included MW-1 through MW-4, and MW-B3. As such, Vertex collected groundwater samples from these monitoring wells and submitted them for laboratory analysis of TPH by EPA Method 8100M. Based upon these observations and laboratory analysis of soil and groundwater at the Site, a condition of "No Significant Risk" did not exist at the Site.

In addition, the Site was evaluated using the Numerical Ranking System for scoring Disposal Sites for purposes of Tier Classification and permitting. The Site received a score of 270 points, classifying it as a Tier II Site having low priority regulatory status.

Phase II Scope of Work and Comprehensive Site Assessment

A Scope of Work for a Phase II - Comprehensive Site Assessment was prepared by Vertex and submitted to the DEP on June 13, 1997. The Scope of Work detailed activities to be conducted as part of the Phase II Investigation, in accordance with the Massachusetts Contingency Plan (MCP).

In August 1998, Vertex conducted a Phase II - Comprehensive Site Assessment at the Site which included additional sampling and analysis of the existing groundwater monitoring wells, and additional evaluation of the stream adjacent to the Site. On August 5, 1998, Vertex noted that an immiscible layer of NAPL was present in monitoring wells MW-B1 and MW-B2 in excess of 0.5 inches.

No evidence of NAPL was detected in monitoring wells MW-1 through MW-4, and MW-B3. As such, Vertex collected groundwater samples from these monitoring wells and submitted them for laboratory analysis of extractable petroleum hydrocarbons (EPH) by the DEP Method. Analytical results obtained from groundwater samples collected from MW-1 through MW-4, and MW-B3 did not indicate concentrations of EPH carbon fraction ranges exceeding the applicable DEP Method 1 Risk Characterization Standards.

Vertex evaluated environmental conditions within the stream adjacent to the Site and concluded that IRA activities had reduced concentrations of oil and/or hazardous materials to levels below the applicable DEP Method 1 Risk Characterization Standards.

In addition, the Phase II Report included an Exposure Assessment which concluded the extent of the contamination associated with RTN 3-13467 remaining at the Site was confined to a localized area completely covered by the concrete slab floor of the Power Plant building and an area under the north retaining wall of the UST location. Consequently, impacted soil remaining at the Site was categorized as "Isolated Sub-Surface Soils."

A Method 1 Risk Characterization was conducted to determine whether a condition of "No Significant Risk" existed at the Site. The results of the assessment were that no significant migration of the release had occurred at the Site either as a dissolved phase in groundwater, as separate phase in the soil, or through volatilization into indoor air at the Site. The results of the Risk Characterization concluded that a condition of "No Significant Risk" did not exist at the Site due to the presence of NAPL in monitoring wells MW-B1 and MW-B2 at a thickness greater than the applicable Upper Concentration Limit (UCL).

Phase III - Evaluation of Comprehensive Response Action Alternatives, and Class C Response Action Outcome

On June 25, 2002, Vertex completed a Phase III - Remedial Action Plan, and Class C Response Action Outcome for the Site. The Phase III Report identified and evaluated Remedial Action Alternatives which are reasonably feasible to achieve a level of "No Significant Risk" for the release. The Phase III Report also demonstrated that a Permanent Solution is not feasible and that any substantial hazards associated with the Site have been eliminated allowing the implementation of a Class C - Temporary Solution Response Action Outcome.

Quarterly Groundwater Monitoring

On August 1, 2003, Coneco initiated investigatory activities to assess groundwater conditions at the Site and determine if a condition of "No Significant Risk" was present at the Site. These activities included the collection of groundwater samples from viable monitoring wells at the Site between August 2003 and May 2007. Observations regarding the presence of NAPL and the depth to groundwater measurements were made by Coneco personnel at each viable on-Site groundwater monitoring well. On October 6, 2005, Coneco measured NAPL in MW-B2 at a thickness of 0.63 feet. During subsequent sampling events from January 20, 2006 to May 24, 2007, Coneco continued to measure NAPL thickness in monitoring wells at the Site, and NAPL thickness was never measured greater than 0.1 inches in any of the monitoring wells. Therefore, NAPL thickness present within monitoring wells at the Site, specifically MW-B2, has been reduced below the applicable UCL of 0.5 inches.

Stage I Environmental Screening

Based on the reported release of No. 6 fuel oil to the stream adjacent to the Site, a Stage I Environmental Screening was conducted by Coneco to characterize potential exposure to Site biota and habitats. Although the release of No. 6 fuel oil had reportedly impacted the stream adjacent to the Site, subsequent field observations by Coneco between August 2003 and May 2007 did not identify any residual persistent contamination. As such, Coneco is of the opinion that the results of this Screening indicate that no current or future exposure exists at the Site in relation to this release, and a condition of "No Significant Risk of Harm" to Site biota and habitats exists.

METHOD 1 RISK CHARACTERIZATION

Using the soil and groundwater classifications derived for the Site, Method 1 threshold concentrations for the compounds reported at the Site are listed in the MCP. The most stringent Risk Characterization concentration from each soil and groundwater classification is considered to be the threshold under which a condition of "No Significant Risk" exists at the Disposal Site.

The concentration of oil or hazardous material in a specific medium which a human or environmental receptor may contact at the Site is defined as the "Exposure Point Concentration" (EPC). Under the provisions of the MCP, the EPC for an area of contaminated soil and groundwater can be determined by taking an average of all the concentrations detected within a contiguous area, which in this case, constitutes the area impacted by the release of No. 6 fuel oil at the Site. For the purposes of this investigation, the horizontal limits of the Disposal Site are conservatively defined as an approximately 14,000 square-foot area encompassing the location of the former USTs and identified impacted soil and groundwater at the Power Plant, as depicted on Exhibit B. Vertically, the Disposal Site includes soil from approximately 2 feet below grade to 15 feet below grade.

Soil Risk Characterization

Analytical results obtained from soil samples collected by Vertex at the conclusion of excavation activities, and Geoprobe® test boring samples collected by Coneco during monitoring well installation at the Disposal Site were used to calculate the current EPCs. For EPH fraction ranges detected within the limits of the Disposal Site, the EPCs have been defined as the average concentration of the respective EPH fraction ranges detected within

the soil samples collected from the Disposal Site. In soil samples from which the specific fractionation ranges were not detected above the laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC. In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of "No Significant Risk" exists for concentrations of oil and/or hazardous materials which have been reduced to "Background." As no concentrations of polycyclic aromatic hydrocarbons (PAHs) or C₁₁-C₂₂ Aromatic Hydrocarbons were identified in soil samples collected from the Site, these analytes were excluded from this Method 1 Risk Characterization. Soil analytical results, calculated EPCs, and the currently applicable Method 1 Risk Characterization Standards are presented below in Table 1.

Table 1 - Soil Exposure Point Concentrations

Sample ID (depth)	Date Collected	C ₉ -C ₁₈ Aliphatic Hydrocarbons	C ₁₇ -C ₃₆ Aliphatic Hydrocarbons	C ₁₁ -C ₂₂ Aromatic Hydrocarbons
Sidewall-West (12')	10/29/1996	170 ⁽¹⁾	380	NT ⁽²⁾
Sidewall-East (12')	10/29/1996	96	480	NT
Sidewall-North (12')	10/28/1996	10,000	15,000	NT
Bottom #1 (17')	10/28/1996	1,900	4,500	NT
Bottom #2 (17')	10/29/1996	730	1,200	NT
Pipeline (3')	11/1/1996	870	2,000	NT
MW-1 (5-7')	2/3/1997	53	450	NT
MW-2 (5-7')	2/3/1997	3	31	NT
MW-3 (5-7')	2/3/1997	13	74	NT
MW-4 (5-7')	2/3/1997	8	26	NT
MW-2B (2-4')	2/3/1997	7,200	12,000	NT
MW-3B (2-4')	2/3/1997	2	12	NT
GP-01/S2 (3-5')	5/17/2007	<40.0	<40.0	<40.0
GP-02/S6 (13-15')	5/17/2007	<30.4	<30.4	<30.4
EPC Value		1,438.7	2,412.6	15.2
<i>DEP Method 1 S-1/GW-2/3 Risk Characterization Standards⁽³⁾</i>		1,000	2,500	800
<i>DEP Method 1 S-3/GW-2/3 Risk Characterization Standards⁽³⁾</i>		5,000	5,000	5,000

Notes: 1) Analytical results and Method 1 Risk Characterization Standards are presented in mg/kg.
2) NT denotes sample not tested for specified analyte
3) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.1

Although the Method 1 S-3 GW-2/3 Risk Characterization Standards are currently applicable for the Disposal Site, the more conservative Method 1 S-1 GW-2/3 Risk Characterization Standards are used to protect potential future Site uses. Therefore, a condition of "No Significant Risk" exists at the Disposal Site for current uses; however, a condition of "No Significant Risk" does not exist for potential future uses. The more stringent S-1 GW-2/3

Risk Characterization Standards will be achieved by implementing an Activity and Use Limitation.

Groundwater Risk Characterization

Pursuant to Policy WSC-02-411 Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MADEP VPH/EPH Approach, Coneco obtained data from Site monitoring wells on a quarterly basis to determine if a condition of "No Significant Risk" exists at the Disposal Site. On October 6, 2005, Coneco measured NAPL in MW-B2 at a thickness of 0.63 feet exceeding the applicable UCL of 0.5 inches presented in 310 CMR 40.0996(6). During the subsequent sampling events from January 20, 2006 to May 24, 2007, Coneco continued to measure NAPL thickness in monitoring wells at the Site, and NAPL thickness was never measured greater than 0.1 inches in any of the monitoring wells. Therefore, NAPL thickness present within monitoring wells at the Site, specifically MW-B2, have been reduced below the applicable UCL of 0.5 inches as presented in 310 CMR 40.0996(6).

Analytical results obtained from groundwater samples collected from viable on-Site monitoring wells by Coneco during sampling event between January 20, 2006 and May 24, 2007 were used to calculate the current EPCs. For EPH fraction ranges detected within the limits of the Disposal Site, the EPCs have been defined as the average concentration of the respective EPH fraction ranges detected within the groundwater samples collected from viable groundwater monitoring wells at the Site. In groundwater samples from which the specific fractionation ranges were not detected above the laboratory quantification limits, one-half of the laboratory quantification limit was used to calculate the EPC.

In accordance with 310 CMR 40.0902(3) and 310 CMR 40.1020(2), a level of "No Significant Risk" exists for concentrations of oil and/or hazardous materials which have been reduced to "Background." As no concentrations of PAHs were identified in groundwater samples collected from monitoring wells at the Site between January 20, 2006 and May 24, 2007, these analytes were excluded from this Method 1 Risk Characterization. The calculated EPCs for groundwater analytes and the currently applicable Method 1 Risk Characterization Standards are presented below in Table 2.

**Table 2 - Groundwater Exposure Point Concentration Values –
January 20, 2006 through May 24, 2007**

Monitoring Well	C ₉ -C ₁₈ Aliphatic Hydrocarbon EPC	C ₁₉ -C ₃₆ Aliphatic Hydrocarbon EPC	C ₁₁ -C ₂₂ Aromatic Hydrocarbon EPC
MW-1	100.00 ⁽¹⁾	266.67	100.00
MW-2	100.00	100.00	100.00
MW-3	100.00	100.00	100.00
MW-4	100.00	100.00	100.00
MW-B1	300.00	566.67	800.00
MW-B2	100.00	100.00	233.33
MW-B3	100.00	100.00	100.00
CMW-1	100.00	100.00	100.00
CMW-2	100.00	100.00	100.00
<i>DEP Method 1 GW-2 Risk Characterization Standards⁽²⁾</i>	<i>1,000</i>	<i>NA⁽³⁾</i>	<i>50,000</i>
<i>DEP Method 1 GW-3 Risk Characterization Standards</i>	<i>20,000</i>	<i>20,000</i>	<i>30,000</i>

Notes: 4) Analytical results and Method 1 Risk Characterization Standards are presented in µg/l.
5) DEP Method 1 Risk Characterization standards are listed in 310 CMR 40.0974 and derived in Section 5.1.
6) NA denotes no standards have been promulgated.

The calculated EPCs for groundwater samples collected from monitoring wells at the Site on a quarterly basis between January 20, 2006 and May 24, 2007 are below the currently applicable Method 1 Risk Characterization Standards. Therefore, a condition of "No Significant Risk" exists for groundwater at the Disposal Site.

ACTIVITY AND USE LIMITATION

Based upon analytical data collected during Conoco's investigations, the area subject to the AUL is depicted in plan view in Exhibit B and is registered at the Middlesex County Registry of Deeds in Plan Book 2008, Page 104. The description of the soil subject to the Activity and Use Limitation is provided below. Prohibited activities include the following:

- The use of buildings located with the Portion of the Property as an office, store, residence, school, or daycare;
- The cultivation of fruits and vegetables destined for human consumption (e.g., gardening);
- Recreational activities, such as playing baseball, swimming, fishing and hiking;
- Leisure activities, such as picnicking, sunbathing and entertaining;
- Relocation of the contaminated soils within the designated AUL Area unless an LSP Opinion is rendered which attests that a condition of "No Significant Risk" is maintained, consistent with the provisions of the MCP;

- Any subsurface activity or excavation which may result in direct contact with, disturbance, or relocation of contaminated soils between 2 and 15 feet which is not conducted in accordance with Obligations of the Notice of AUL.

The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur within the designated AUL Area:

- Any activities and uses consistent with the current use of the Portion of the Property as a Power Plant facility and parking area;
- Activities and uses including, but not limited to, maintenance of the asphalt-paved driveway and parking area within the designated AUL Area which do not cause direct contact with, disturbance, or relocation of, the contaminated soil within the designated AUL Area;
- Excavation associated with limited short term utility work which may be deemed necessary within the designated AUL Area, provided that it is conducted in accordance with the performance standards for Utility Related Abatement Measures (URAMs) set forth by the MCP at 310 CMR 40.0030, and all applicable worker health and safety practices pursuant to 310 CMR 40.0018;
- Subsurface activities and/or construction, including but not limited to excavation associated with future construction of buildings and other improvements to support permitted uses on the property which may disturb contaminated soils, provided that such work is conducted in accordance with a Soil Management Plan developed in accordance with Obligation (ii) as set forth in Notice of AUL Item 3.
- Activities and uses not expressly prohibited by the Notice of AUL;
- Such other activities and uses which, in the Opinion of a LSP, as defined in 310 CMR 40.0006, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

A metes and bounds description of the area subject to the AUL is as follows:

COMMENCING Commencing at a drill hole in a stone bound on the southeasterly line of Waverley Oaks Road, said bound lying N 51° 29' 49" E a distance of 1051.13 feet from the center of a stone bound also on the southeasterly line of Waverley Oaks Road which marks the point of curvature at the intersection of the northeasterly line of Beaver Street with the southeasterly line of Waverley Oaks Road;

THENCE N 47°27'49" W for a distance of 579.87 feet to the point of beginning of the herein described AUL area;

THENCE S 10°40'10" W a distance of 123.00 feet;

THENCE N 79°19'50" W a distance of 145.00 feet;

THENCE N 10°40'10" E a distance of 123.00 feet;

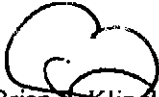
THENCE S 79°19'50"E a distance of 140.00 feet to the point of beginning.

Containing 17,835 Square Feet and bounded on all sides by other land of the Commonwealth of Massachusetts. The depth of the area subject to the AUL begins at a depth of approximately 2 feet below surface grade and extends 15 feet below the existing surface grade.

Notifications to the Chief Municipal Officer, Health Department, Zoning Official, and Building Department, as well as a published legal notice have been made within 30 days of the AUL submittal.

If there are any questions, please contact the undersigned at (508) 697-3191, extension 103.

Sincerely,
Coneco Engineers & Scientists, Incorporated



Brian F. Klingler, P.G., L.S.P.
Principal Geologist

Exhibit E

I, Elin M. Howe, do hereby certify that the property identified as "The Fernald Center" located at 200 Trapelo Road in Waltham, Massachusetts is owned by the Commonwealth of Massachusetts. In addition, the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation conducts operations at the above mentioned property. As Commissioner of the Department of Mental Retardation, I have the authority to sign legal documents on behalf of the Commonwealth.

Elin M. Howe

Elin M. Howe

Eugene C. Byrne
Attest Middlesex S. Register



CIVIL DESIGN & LAND PLANNING

SURVEYING

GEOTECHNICAL ENGINEERING

ENVIRONMENTAL CONSULTING

REGULATORY COMPLIANCE & PLANNING

June 27, 2003
Project No. 4701

Mr. Walter Sweder
Director of Public Health
City of Waltham Health Department
119 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Massachusetts Department of Mental Retardation Fernald Center
Malone Park Building No. 21
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21892

Dear Director Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of the identification of a release of an unknown volume of No. 2 fuel oil from a former 500-gallon No. 2 fuel oil underground storage tank at Malone Park Building No. 21 of the Massachusetts Department of Mental Retardation Fernald Center in Waltham, Massachusetts. This letter follows notification to the Department of Environmental Protection - Northeast Regional Office (NERO) on June 27, 2002 and the submittal of a Response Action Outcome (RAO) Statement on June 27, 2003. The Site has been assigned Release Tracking Number (RTN) 3-21892. Copies of the RAO Statement are available for review at the DEP-NERO.

Pursuant to the provisions of 310 CMR 40.0427, no ongoing activities related to the above described release are required.

If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists

Jedd S. Steinglass
Project Manager

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

JSS:BFK:jd
jss-4701.21.notification.doc



CIVIL DESIGN & LAND PLANNING
SURVEYING
GEOTECHNICAL ENGINEERING
ENVIRONMENTAL CONSULTING
REGULATORY COMPLIANCE & PLANNING

July 2, 2003
Project No. 4701

Walter Sweder Jr.
Director of Public Health
Waltham Health Department
Town Hall
19 School Street
Waltham, Massachusetts 02451

RE: **Public Involvement Notification**
Phase I Initial Site Investigation and Tier II Permit Application
Fernald Center - Malone Park Building No. 23
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number 3-21893

Dear Mr. Sweder:

Pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), the following serves as written notification of a release of petroleum at Malone Park Building No. 23 of the Fernald Center at 200 Trapelo Road in Waltham, Massachusetts. This letter follows the submittal of a Phase I Initial Site Investigation and Tier Classification to the Department of Environmental Protection (DEP), Northeast Regional Office (NERO) on June 27, 2003. Legal notice of the Tier II Permit Application is attached for your reference. Copies of the above report are available for review at the DEP-NERO.

If you have any questions, please contact the undersigned.

Sincerely,
Coneco Engineers & Scientists

A handwritten signature in black ink, appearing to read 'Jedd S. Steinglass'.

Jedd S. Steinglass
Project Manager

A handwritten signature in black ink, appearing to read 'Brian F. Klingler'.

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

JSS:BFK:jd
jss/d:4701.municipal.Tier.doc

NOTICE OF INITIAL SITE INVESTIGATION AND WASTE SITE CLEANUP PERMIT APPLICATION

FERNALD CENTER - MALONE PARK BUILDING NO. 23
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-21893

Pursuant to the Massachusetts Contingency Plan (310 CMR 40.0480), an Initial Site Investigation has been performed at the above referenced location. A release of oil and/or hazardous materials has occurred at this location which is a disposal site (as defined by M.G.L. c. 21E, Section 2). This site has been classified as Tier II (310 CMR 40.0500), and an Initial Tier II Permit application is being submitted on June 27, 2003 to the Department of Environmental Protection (DEP) pursuant to 310 CMR 40.0510.

Response actions at this site will be conducted by the Commonwealth of Massachusetts, Executive Office of Health and Human Services, Department of Mental Retardation who has employed Coneco Engineers and Scientists of Bridgewater, Massachusetts to manage response actions in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000). The Massachusetts Department of Mental Retardation, the applicant, is represented by David Chan, Project Engineer, 500 Harrison Avenue, Boston, Massachusetts 02118 at telephone number 617-824-7881.

Anyone interested in reviewing the permit application should notify DEP by writing to Department of Environmental Protection, Bureau of Waste Site Cleanup, Permit Section, 1 Winter Street, Boston, Massachusetts 02108 by July 18, 2003. If anyone notifies DEP of his or her interest in reviewing or submitting comment on the Tier II permit application, the DEP will conduct a public comment review period of twenty (20) days which shall run concurrently with DEP's Initial Technical Review of the application. Anyone who fails to notify DEP in writing of his/her interest in commenting on the application by the above date may be deemed to have waived his/her rights, if any, to appeal DEP's permit decision or to intervene in an adjudicatory proceeding with respect to this application, pursuant to 310 CMR 40.0770(2).

M.G.L. c. 21E and the Massachusetts Contingency Plan provide additional opportunities for public notice of and involvement in decisions regarding response actions at disposal sites: 1) The Chief Municipal Official and Board of Health of the community in which the site is located will be notified of major milestones and events, pursuant to 310 CMR 40.1403; and 2) Upon receipt of a petition from ten or more residents of the municipality in which the disposal site is located, or of a municipality potentially affected by a disposal site, a plan for involving the public in decisions regarding response actions at the site will be prepared and implemented, pursuant to 310 CMR 40.1405.

To obtain more information on this disposal site and the opportunities for public involvement during its remediation, please contact Mr. Brian F. Klingler, P.G., L.S.P., Principal Geologist, of Coneco Engineers and Scientists at 4 First Street, Bridgewater, Massachusetts, 02324, or at (508) 697-3191.

Waltham Fire Department



WALTHAM FIRE DEPARTMENT
FIRE PREVENTION BUREAU
175 LEXINGTON STREET
WALTHAM, MA 02452-4638

Telephone 781-314-3710
Fax 781-647-0892

7/16/09

Tech Law Inc.
175 Cabot Street Ste. 415
Lowell, MA 01854

Attn: Melanie Littman/ Gretchen Fodor

Per your request of 6/08/09 requesting information on 200 Trapelo Road, our records indicate the following installs and removals in the general location of your request.

AST'S INSTALLED

<u>STREET</u>	<u>NO.</u>	<u>SIZE</u>	<u>DATE INSTALLED</u>	
Trapelo Rd	200	4-330gal	6/20/02	For htg. Inspected by Lt. Belida 10/08/02
Trapelo Rd.	200	275	10/2/01	For htg. Inspected by Lt. Lefort
Trapelo Rd.	200	2-275	4/15/98	For htg. Inspected by Lt. Comeau
Beaver St.	265	275	11/21/08	For htg. Inspected by Lt. Quaranto

UGT'S INSTALLED

<u>STREET</u>	<u>NO.</u>	<u>SIZE</u>	<u>DATE INSTALLED</u>	
Trapelo Rd.	200	2-20,000	11/22/86	Installed and buried before inspection

AST'S REMOVED

<u>STREET</u>	<u>NO.</u>	<u>SIZE</u>	<u>DATE REMOVED</u>	
Beaver St.	265	275	11/04/08	

UGT'S REMOVED

<u>STREET</u>	<u>NO.</u>	<u>SIZE</u>	<u>DATE REMOVED</u>	
Trapelo Rd.	200	2-4,000	5/22/97	Lt. Comeau
"	"	1,000	9/16/97	Lt. Belida. Clean appearance.
"	"	500	5/21/97	Tank ok, Lt. Galvin
"	"	1,000	5/20/97	Tank Ok, Lt. Galvin
"	"	1,000	5/29/97	Tank appears ok, Lt. Galvin.
"	"	Four 500gal	6/27/02	3-tank & hole appear clean. 1 had oil on exterior bottom of tank. DEP notified.Lt. Ferrick
"	"	1500	4/27/01	Tank & site appear ok. Lt. Lefort
"	"	1000	4/27/01	Tank & site appear ok. Lt. Lefort
"	"	500	4/27/01	Tank & site appear ok. Lt. Lefort

(continued)



WALTHAM FIRE DEPARTMENT
FIRE PREVENTION BUREAU
175 LEXINGTON STREET
WALTHAM, MA 02452-4638

Telephone 781-314-3710
Fax 781-647-0892

PAGE 2

UGT'S REMOVED continued...

<u>STREET</u>	<u>NO.</u>	<u>SIZE</u>	<u>DATE REMOVED</u>	
Trapelo Rd.	200	22,000 25,000 29,000	10/17/96	Lt. Galvin. Oil in ground. DEP notified
Trapelo Rd.	200	750	10/30/98	Tank & hole ok. Lt. W. Burke
Beaver St.	265	500	6/21/93	Tank Ok. Dep. Cardillo

Permits for aboveground tanks for temporary heat were issued for 5-500 gal and one 1,000gal tanks from 1/28/98- 1/29/99.

Oil burner permit inspected by Lt. Comeau 2/14/97, indicates presence of 275 gal tank in basement @ 227 Beaver St..
Oil Burner permit, inspected by Lt. Belida on 9/15/95 indicates existing tank, no size or type(above or underground) indicated in boiler room @ 258 Trapelo Road.

Please see the DEP for more info on 200 Trapelo Rd.;

RTN3-21380 7/26/02 ~ RTN3-15121 6/19/97 ~ RTN3-13467 5/26/99 ~ RTN3-10367 6/24/94
RTN3-21892 7/18/02 ~ RTN3-21893 7/18/02 ~ RTN3-21380 2/17/02 ~ RTN3-15149 6/25/97
And also;
NON-NE 95-9029-2-E 7/5/95 ~ NON-NE 95-9030-2E 6/20/95 ~ NON-NE 98-7011 5/18/98

Waltham Fire Department, Fire Prevention

EXHIBIT D-1

FDC SPCC Plan



The Commonwealth of Massachusetts

Executive Office of Health & Human Services

Department of Mental Retardation

Fernald Developmental Center

200 Trapelo Road

Waltham, MA 02452-6302

(781) 894-3600

Deval L. Patrick
Governor

Timothy P. Murray
Lieutenant Governor

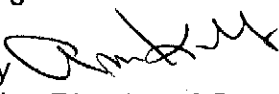
JudyAnn Bigby, M.D.
Secretary

Elin M. Howe
Commissioner

Diane Enochs
Assistant Commissioner
Facilities Management

Linda Montminy
Facility Director

To: ALL A.O.D.'s

FROM: Anne Kelley 
Administrative Director of Core Services

DATE: October 24, 2007

RE: Oil/Gasoline Spills

All oil or gasoline spills in excess of 10 gallons need to be reported immediately. Serious fines will be levied against the Fernald Center if all necessary parties are not contacted.

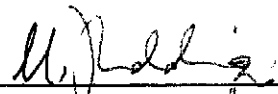
When, and if, the power plant, or Rich Granfield at the garage notifies the A.O.D. concerning an oil/gas spill, the A.O.C. should view the video (Spill Prevention/Containment and Counter Measure Plan) that is in the switchboard office, refer to the accompanying manual immediately and contact all parties.

cc: Linda Montminy
Ed Wong
Paul Bermingham
Rick Granfield
Susanne Kingston
John Hill

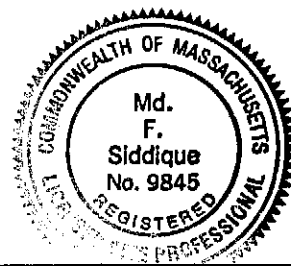
PLAN CERTIFICATION

I hereby certify that I have sufficient knowledge of the Facility and, being familiar with the provisions of 40 CFR Part 112 attest that this Spill Prevention Control and Countermeasures Plan (SPCC) has been prepared in accordance with good engineering practice and the requirements of 40 CFR 112. By means of this certification I attest the following:

- That I am familiar with the requirements of 40 CFR 112;
- That I or my agent has visited and examined the facility;
- That the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part;
- That procedures for required inspections and testing have been established; and
- That the Plan is adequate for the facility.


M. Farooq Siddique, PE, LSP

11/10/2004
Date



Stamp

State of Massachusetts Registration Number:

MANAGEMENT APPROVAL

In accordance with 40 CFR 112.7, this SPCC Plan has the full approval of the Department of Mental Retardation at a level of authority to fully implement the Plan as herein described.


Name:

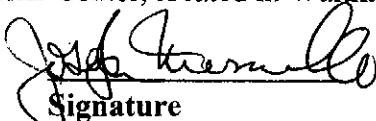
Title:


Signature:

Date:


I certify that I have personally examined and understand the information presented in this document, and am knowledgeable of my obligations and responsibilities in the event of a release or spill of petroleum product at Fernald Developmental Center, located in Waltham, Massachusetts.

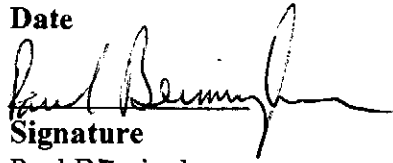

Signature
Joe Breen
Name
Facility Director
Title
3.30.05
Date



Signature
Joseph Merrullo
Name
Chief Campus Police
Title
3/30/05
Date



Signature
Jon Graves
Name
Director of Core Services
Title

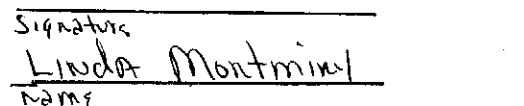
Date


Signature
Ed Wong
Name
Chief Power Plant Engineer
Title
3-11-05
Date


Signature
Paul Birmingham
Name
Director of Campus Safety
Title
3/11/05
Date


Signature
Peter Maxon
Name
Director of Farms and Grounds
Title
3/11/05
Date


Signature
Richard Grandfield
Name
Motor Equipment Mechanic
Title
3-30-5
Date


Signature
Linda Montminy
Name
Facility Director
Title
Linda Montminy
Date
3/11/05

SPCC PLAN REVIEW AND UPDATE

In accordance with 40 CFR 112.5, this SPCC Plan must be reviewed and evaluated at least every five years or whenever there is a change in Facility design, construction, operation, or maintenance that materially affects the Facility's potential for a discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. In addition, whenever requested by the United States Environmental Protection Agency (USEPA) or by the Massachusetts Department of Environmental Protection (DEP). Such amendments shall be made within six months of the review/request and fully implemented as soon as possible, but not later than six months after such amendment is prepared. A Professional Engineer must certify any technical amendment to the SPCC Plan in accordance with 40 CFR 112.3 (d).

Review Dates:	Signature
1.	
2.	
3.	
4.	
5.	

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APPENDICES:

APPENDIX A: FIGURES

- Figure 1: Site Location Map
- Figure 2: Site Plan

APPENDIX B: TABLES

- Table 1: Total Petroleum Bulk Storage
- Table 2: Total Petroleum Bulk Storage - FDC Transformers

APPENDIX C: APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

APPENDIX D: EMERGENCY CONTACT LIST

1.0 INTRODUCTION

FS Engineers, Inc., on behalf of the Department of Mental Retardation, has prepared the following Spill Prevention Control and Countermeasure Plan (Plan) for the Walter E. Fernald Developmental Center (Site) in Waltham, Massachusetts. This Plan has been prepared in accordance with sound engineering practices and the requirements of 40 CFR 112, "Oil Pollution Prevention," Section 112.7, "Guidelines for the Preparation and Implementation of Spill Prevention Control and Countermeasure Plan." The intent of this plan is to establish procedures, methods and equipment to prevent the discharge of petroleum products from the Site. Where the plan does not conform to 40 CFR 112, equivalent environmental protection has been provided in this Plan.

2.0 FACILITY DESCRIPTION

2.1 History

The Walter E. Fernald Developmental Center (FDC) located in Waltham, Massachusetts is the oldest publicly funded facility serving developmentally disabled individuals. The FDC is located on a tract of approximately 196 acres. Two hundred and twenty seven individuals presently reside at the facility. The FDC currently employs approximately 870 staff and is comprised of 81 buildings, 70 of which are currently occupied and serve in residential, program, administrative/office, support/service capacities. The ages of the buildings vary from the original dormitory occupied in 1890, to the most recent structure, the Food Service, constructed in 1993. Most buildings on the site are provided with high pressure steam for both hot water and heat supplied from a power plant. Water for consumptive use and fire protection is provided by MWRA, and sewer lines are connected to the City of Waltham system.

2.2 Type of Facility

FDC is a non-transportation-related on-shore facility engaged in storing, consumption, and distribution of gasoline, diesel, and fuel oil, for heat and emergency power generation and maintenance purposes. The facility is located on a 196-acre parcel and is comprised of 81 buildings for various uses including: residential buildings, a chapel, a therapeutic equipment center, maintenance garage, power plant, indoor/outdoor pool, administration building, etc.

2.3 Location of Facility

200 Trapelo Road
Waltham, Massachusetts 02154
617-894-3600

2.4 Owner or Operator

The Commonwealth of Massachusetts
Executive Office of Health and Human Services

Department of Mental Retardation
500 Harrison Avenue
Boston, Massachusetts 02118

Facility Emergency Coordinators and Emergency Contacts are presented below.

Contacts:

Gerald J. Morrissey, Commissioner	(617) 727-5608
Gail Gillespie, Regional Director	(781) 314-7501
George F. Atamian, P.E., Dir. of Engineering & Maintenance	(617) 624-7888

2.5 Facility Drainage

Stormwater discharge from roofs, parking lots and outdoor areas at the Site is generally directed to a series of catch basins which discharge to Clematis Brook and ultimately to Beaver Brook. Clematis Brook is located approximately 200 feet southwest of the Site at its closest point. According to FDC personnel, the discharge point of several catch basins observed during the Site inspection were either unknown or discharge directly to the subsurface soils.

2.6 Facility Oil Storage and Spill Prediction

The Site has twenty six "bulk" oil storage tanks (aboveground and underground) that are used to store various petroleum products. Non-bulk oil storage (oil filled electrical, operating, or manufacturing equipment) at the Site consists of eighty one transformers. Locations of oil containing structures are depicted on the Facility Site Plan in Appendix A. Tables 1 and 2 in Appendix B provides an inventory of the oil storage at the Site.

Oil and hazardous materials used for the boiler system and equipment maintenance are stored on the concrete floor of the Power Plant Building.

The table below contains possible spill scenarios which have the greatest potential for a significant release or spill of product. Possible spill scenarios include leaking ASTs or USTs and spillage during fuel delivery, loading or unloading. The potential for other incidents exists, however the existence and development of monitoring and containment procedures should provide the necessary fundamental procedures to address other incidents.

POTENTIAL SPILL SCENARIOS

Potential Spill Source	Type of Failure	Quantity (gal)	Direction of Flow	Secondary Containment
Power Plant USTs	Leak/Rupture	27,000	Southwest approx. 10' to Clematis Brook via groundwater	No
Fuel Delivery Tank	Tank overfill/rupture	Max. Delivery Truck Vol. = 8,000	Southwest approx. 10' to Clematis Brook via overland flow	No
Site 5/Site 7	Leak/rupture	10,000	West approx. 200' to unnamed stream via groundwater	No
Fuel Delivery Tank	Tank overfill/rupture	Max. Delivery Truck Vol. = 8,000	Potential discharge to Clematis Brook via storm drain system	No
Pearlman Building	Tank overfill/rupture	Max. Delivery Truck Vol. = 8,000	Potential discharge to Clematis Brook via storm drain system	No
Farm and Grounds and Daycare	Tank rupture	275	Potential Discharge to Clematis Brook via storm drain system	No
Volunteer Center	Tank rupture	550	Potential Discharge to Clematis Brook via storm drain system	No
Sequin/Wallace Generators	Tank rupture	100 each	Potential discharge to Clematis Brook after flowing over grass area	No
Cottage 17/Cottage 18	Tank rupture	100 each	Potential discharge to Clematis Brook via storm drain system	No

UST - Underground Storage Tank

AST - Aboveground Storage Tank

3.0 SPILL PREVENTION AND CONTROL

3.1 Spill Prevention

Operations at the Site are conducted in a manner that is preventative of potential oil discharges. Inspections and controls are implemented to ensure that spill prevention and control measures are working effectively at the Site.

3.1.1 Tank and Equipment Inspections

Routine inspections, equipment repairs and/or replacement, and spill events shall be recorded in a facility log book. Inspections should include verification of the following:

- Containers, piping, and appurtenances in good condition;
- Only containers compatible with the storage of oil are used;
- Visible discharges of oil from containers and associated piping and appurtenances are

- detected;
- Leaks are promptly dealt with and oil accumulated in containment is removed for proper disposal;
 - Adequate supplies of spill response equipment are in stock.

Records shall be signed by the appropriate supervisor or the individual responsible for the facility SPCC procedures. Inspection records shall be maintained for a period of at least three years or until termination of operation, whichever ever comes first, and shall be kept on site. Aboveground storage tanks shall be tested for integrity on a regular schedule and when material repairs are done.

Daily Inspections

The volume of petroleum in most of the USTs (>1,000 gallons) is measured daily using a dipstick. The volumes of oil in the USTs at the Power Plant are measured twice each day. Pipe connections and valves should be visually checked by the engineer on a daily basis. Any leaking valves, fittings or pipes, surficial staining, oily sheens or other evidence of a release observed during daily operation of the facility shall be reported to the individual responsible for overseeing facility SPCC procedures.

Monthly Inspections

Routine monthly inspections shall consist of a visual inspection of all ASTs, aboveground piping, valves, fittings and pumps, excluding transformers. Any leaking valve, fitting or pipe should be repaired or replaced, as required. Any structurally unsound tank shall be replaced. Routine semi-annual inspections of transformers shall consist of a visual inspection of the tank. Any structurally unsound tank shall be replaced.

3.1.2 Underground Storage Tank Inspections

Due to the unknown age and conditions of the USTs, a tank tightness test should be periodically performed as required by 527 CMR 9.00, "Tanks and Containers." Tank and piping system tightness testing records shall be kept on record at the Site. A summary of the tightness testing requirements under 527 CMR 9.00 is as follows:

- New tanks shall be tested for tightness 12-24 months after installation.
- If the tank is not equipped with an acceptable form of leak detection, but does have a spill containment manhole, an overfill prevention device and cathodic protection, the tank shall be tested during the 5th, 10th and 15th year after installation at subsequent five year intervals.
- If the tank has a European style suction piping system (i.e., piping slopes back toward tank), which is not equipped with secondary containment and interstitial space monitors, the piping shall be tested during the 3rd, 6th and 9th years of operation and at subsequent 3 year intervals.

- If the tank is equipped with a pressurized piping system which is not monitored through the use of soil monitors, the piping shall be tested at the end of every calendar year.
- Pressurized piping systems equipped with secondary containment and interstitial space monitors are exempt from tightness testing.

3.1.3 Facility Transfer Operations, Pumping and In-Plant Processes

Buried Pipelines - Buried pipeline locations and materials can not be determined due to the ages of the tanks and/or the lack of available information. Fuel feed lines are buried and are exposed within the buildings' basements.

Pipeline Terminal Connections - Pipeline connections for USTs and ASTs are capped when not in use.

Pipe Supports - Aboveground vent and fill pipes appeared to be sufficiently supported.

Aboveground Pipeline Inspection - All exterior piping shall be inspected by facility personnel on a periodic basis at least monthly. Scheduled maintenance inspections shall be conducted in accordance with Section 3.1.1.

3.1.4 Oil Storage Deliveries

Department of Transportation Requirements - Delivery operations shall comply with applicable requirements of 527 CMR 8.00 and 527 CMR 9.04(G)(2) through (4) and 9.06(D). Tank filling shall not begin until the delivery truck operator has determined that the volume available in the tank is greater than the volume of product to be transferred.

Containment System - The unloading areas of the tanks are comprised of grass and/or gravel, bituminous asphalt or concrete. Drainage is by direct ground infiltration, overland sheet flow, or to the existing catch basin system. In most cases the storm water system discharges to Clematis Brook. The direction of drainage is inferred to be in the direction of downgradient topography. In general, topography on the Site slopes down in a southerly direction.

Premature Departure Prevention System - Tank truck unloading operations are continuously monitored by the driver and/or facility operator during fuel delivery. Drivers are required to notify personnel of their arrival and stay with their vehicles while unloading fuel to the USTs and ASTs.

Tank Truck Inspection - Tank truck valves, drains, and outlets are checked for leaks before unloading or departure by the vehicle operator. Leaks which occur as a result of tank truck hose disconnection are the responsibility of the vehicle operator and shall be cleaned up in an

appropriate manner. Hose connections and tank truck fittings are inspected with each delivery.

3.2 Spill Control

The following spill control measures are currently in place at the Site.

3.2.1 Bulk Storage Containment

Pearlman Building - The Pearlman building contains a 5,000-gallon diesel AST. Secondary containment for the AST consists of a concrete block structure surrounding the AST. The floor of the containment area is concrete. The containment capacity is approximately 100 percent.

Garage - Two 275-gallon waste oil ASTs and one 55-gallon drum containing waste oil are situated on a concrete pad within a concrete block secondary containment structure. The secondary containment appears capable of retaining greater than 100 percent of the volume of each AST and drum.

Volunteer Center and Day Care - 275-gallon fuel oil ASTs are located within the concrete basements of the Volunteer Center and Day Care Center. In the event of a rupture, petroleum product would appear to be contained within the buildings' respective basements.

Thom, Greene Unit - A 275-gallon double walled diesel AST is located outside each of these buildings.

ICF - Each of the four ICF buildings have a 330-gallon fuel oil AST which is located within a plastic secondary containment structure which appears capable of retaining greater than 100 percent of the volume of each tank. The containment structures are also located on top of a concrete slab.

Farrell - The Farrell building contains a 1000-gallon diesel AST, which is located within a secondary containment unit. The containment unit appears capable of containing 100 percent of the volume of the tank.

Howe Building - There is a 275-gallon diesel AST which is located within a plastic secondary containment structure which appears capable of retaining greater than 100 percent of the volume of the tank.

Cottage 11 - There is an 85-gallon diesel AST located within a concrete secondary containment structure.

The remaining USTs and ASTs are not provided with secondary containment or diversionary structures. In the event of a spill, the Oil Contingency Plan will be followed. Potential spills from refueling activities would be directed to the on-site catch basin system, bituminous asphalt or to gravel and grassy areas. Fuel entering the storm water drainage system would be

directed to Clematis Brook at the southwestern boundary of the site. There is a supply of absorbent booms, granular absorbent, and catchbasin covers at the Power Plant, and a spill kit at the Farm and Grounds building to contain and mitigate impacts from spill incidents.

3.2.2 Non Bulk Storage Control

Transformers - There are approximately 81 electrical transformers and/or electrical switches located on the Site. Electrical transformers located within Building #14 and the Power Plant are situated on concrete pads and enclosed by the masonry walls of the building. There are floor drains located in the vicinity of the transformers. The point of discharge of these floor drains is unknown. The remainder of the transformers and switches have no secondary containment or associated diversionary structures as they are either mounted on a telephone pole, a concrete pad or a building wall. According to facility records, all transformers have been retrofilled with non-PCB containing transformer oil.

3.2.3 Drainage System Controls

There are no diked storage areas at the Site. For undiked areas, the potential for a discharge exists to the Site drainage system via catch basins and drainage ditches. There are catchbasin covers located at the Power Plant for use during a spill.

4.0 OIL SPILL CONTINGENCY PLAN

The following is a summary of oil spill contingency measures to be followed in the event of a spill or release at any location throughout the facility, particularly those which affect or pose a threat to nearby waterways. Regulatory and site specific activities are discussed in the following sections.

4.1 Tank Division of Water Pollution Control Regulations

In accordance with 314 CMR 15.00, "No person shall pump, discharge, throw, drain or deposit, or cause to be deposited, oil or other matter containing oil into the waters of the Commonwealth." As such, immediate corrective action must be taken to mitigate any spills or releases of oil which affect, or may potentially affect, the waters of the Commonwealth. In accordance with 314 CMR 15.06, the Division of Water Pollution Control, hereinafter the "Division", Spills and Accidental Discharges, the following actions are required in the event of an accidental discharge of oil:

- Following an oil spill, the source of leakage or spillage shall be located and the person causing the spill shall be responsible for having immediate corrective action taken to stop the discharge of oil.
- Further, the person causing the spill shall be responsible for having immediate steps taken to prevent spilled oil from reaching any waters of the Commonwealth, the person causing the

spill shall be responsible for having immediate steps taken to contain the oil in as small an area as possible. The oil shall then be removed and disposed of in an appropriate manner so as to minimize pollution.

- Any oil spillage reaching, or causing a threat to, any waters of the Commonwealth shall be reported immediately to the Division through the Department of Environmental Protection by the person responsible for the occurrence or by anyone observing such occurrence by telephoning (617) 932-7600 during the work day, or the Central Commission Center for the State Police (508) 820-2121, after hours.
- A written report shall be submitted by the person responsible for an oil spill when so ordered. The report shall include, but not be limited to the following information:
 - Date, time and place of the oil spill or discharge;
 - Type and amount of oil lost;
 - Cause of spillage;
 - Action taken to prevent a recurrence of such spill or discharge;
 - Insofar as practical, removal of oil shall be accomplished by physical and mechanical means before resorting to dispersing chemicals. When requested by the Division, persons using chemicals to clean up oil spills shall use the chemicals submitted to standard tests established by the division. Test results must be made available to the division.
 - Oil spills greater than 10 gallons will trigger the requirements of 310 CMR 40.0000, the Massachusetts Contingency Plan, and will require the services of a Licensed Site Professional.

4.2 Site Specific Oil Spill Contingency Plan

All oil spills, regardless of the amount spilled or location are to be reported immediately or within two hours to the Department of Environmental Protection (DEP) by the Administrative Officer of the Day (A.O.D.) on duty. The A.O.D must notify the Waltham Fire Department. Power Plant staff have been instructed to notify the A.O.D if an oil spill occurs. The A.O.D. should contact:

Paul Birmingham, Director of Campus Safety
Work: (781) 894-3600, ext. 2213

The A.O.D. should contact the Grounds Department (if personnel are scheduled) and/or Campus Police to bring sand and absorbent booms (located at the Power Plant) to the affected area and initiate efforts to barricade the spill to prevent/contain additional spread of oil. When speaking to DEP, the A.O.D. should take direction in terms of clean-up and notify the Waltham Fire Department of same. The A.O.D. should take incident reports from all parties involved and submit them to Joe Breen, Director. The phone numbers to contact the DEP are:

During regular working hours: (617) 932-7600

Before 8:00 A.M./After 5:00 P.M./and on Weekends: (617) 566-4500

DEP is located at:

One Winter Street, Boston, MA 01801

If the DEP directs the A.O.D. to hire an environmental clean-up company, a Licensed Site Professional (LSP) must also be retained. During working hours, the Facility Director must also contact (1) Dept. of Capitol Planning and Operations (DCPO) at (617) 727-4030 and (2) George Atamian, P.E., Director of Engineering and Maintenance at (617) 624-7888.

Additional contact Phone numbers are as follows:

- Waltham Fire Department
911
- State Police
(617) 820-2121
- Emergency Response Contractor:

Clean Harbors
(781) 849-1800
24 Hr. 1-800-645-8265
- Massachusetts Division of Water Pollution Control:
Day: (617) 292-5673
Night: 1-800-424-8802
- If more than 1,000-gallons were released, or there have been two or more spill events of greater than 42 gallons within the preceding twelve months, the facility owner must notify the EPA Regional Administrator and the Massachusetts Division of Water Pollution Control in writing, no later than 60 days after the spill event, in accordance with 40 CFR 112.4.
- Once the spill event is over, measures should be implemented to insure that a similar spill or release does not occur at the facility in the future.

4.3 Written Commitment of Manpower, Equipment, and Materials

Emergency equipment available at the Power Plant on the date of inspection, October 27, 2004 consisted of absorbent pads, granular absorbent, and catch basin covers. Sufficient equipment, manpower and materials are available from the response agencies listed in the preceding section as

well as the Waltham Fire Department. These resources will be utilized to insure that the goals of Section 4.2 are effectively met.

5.0 SPILL PREVENTION TRAINING

The facility owner/operator shall schedule and conduct semi-annual briefings for all oil-handling employees on equipment operation, pollution control legislation and regulations, and spill prevention. Briefings should highlight and describe facility standard operating procedures in the event of a spill, known spill events or failures, malfunctioning components, and newly developed or implemented precautionary measures. Names and telephone numbers of key personnel to contact in the event of an emergency shall be updated, distributed, and posted in the office of the telephone operator, near the telephone. The following topics will be covered.

Equipment Operation & Maintenance - Personnel shall be instructed in the proper operation and maintenance of equipment to prevent the discharge of oil. All operating personnel must be thoroughly familiar with the system piping, valving, and control systems and shall be instructed in emergency spill containment procedures.

Pollution Control Laws & Regulations - Personnel shall be instructed in applicable pollution control laws and regulations regarding facility operation, spill prevention, and spill notification.

Spill Prevention/SPCC - The facility SPCC plan shall be presented and reviewed. All appropriate personnel shall be familiar with the SPCC Plan. Personnel shall be prepared to take appropriate actions during an emergency or spill situation.

6.0 SITE SECURITY

Fencing and Entrance Gate Guards - No fencing or entrance controls were observed at the Site. Security for the facility continues on a 24 hour a day basis, therefore there is continual oversight of all tanks.

Valves - Tank fill connections and fuel delivery valves for all ASTs and USTs do not permit direct outward flow due to their configurations. All valves are physically closed by facility operating personnel when in a non-operating or standby status.

Pump Starter Controls - Gasoline pumps and controls are accessible to authorized personnel only.

Lighting - Facility lighting is mainly adequate for the observation of potential night time spills and to reduce the likelihood of vandalism. Flood lights are mounted on the Site buildings and in the parking areas.

Security Cameras - No security cameras are present at the Site for monitoring the fuel truck unloading area.

Overfill Detection and Prevention - The two gasoline USTs at the Grounds Department are fitted with overfill buckets. There are no leak detection and prevention devices on any of the storage tanks. Overfill protection for the fuel oil USTs at the Power Plant includes an audible alarm.

7.0 LIMITATIONS

The findings are limited to the information available at the time of the investigation and the scope of services as defined. No other conclusions, interpretations, or recommendations are contained or implied in this report other than those expressed. Also, FSE makes no warranty, expressed or implied, on the accuracy of the work and information completed by others upon which FSE has relied to prepare this report. No other use of this report is warranted without the written consent of FS Engineers, Inc.

APPENDIX A
FIGURES



SITE LOCATION
MAP

FIGURE 1

FS ENGINEERS, INC.

289 GREAT ROAD
ACTON, MA 01720
TEL. (978) 263 - 9882
FAX. (978) 263 - 3709

FERNALD DEVELOPMENT CENTER

SPCC PLAN
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS

NO. DATE REVISION

DATE 10/27/2004
DRAWN BY: MSB

APPENDIX B

TABLES

TABLE 1 - TOTAL PETROLEUM PRODUCT BULK STORAGE

Tank Location	Tank No.	Cap. (gal.)	Content	Type	Material	Corrosion Protection	Secondary Contain.	Installed
Shriver Center	1U	750	Diesel	UST	Steel	No	No	1970
Power Plant	2U	22,000	No. 6	UST	Steel	No	No	Pre-1959
Power Plant	3U	24,000	No. 6	UST	Steel	No	No	Pre-1959
Power Plant	4U	27,000	No. 6	UST	Steel	No	No	Pre-1959
Site 7	5U	10,000	No. 2	UST	Fiberglass	No	No	1984
Site 5	6U	10,000	No. 2	UST	Fiberglass	No	No	1984
Activity Center	7U	4,000	No. 2	UST	Fiberglass	No	No	1981
Thom	1A	275	Diesel	AST	Steel	No	Yes	1999-2001
Howe Hall	2A	275	Diesel	AST	Steel	No	Yes	1999-2001
Farrell Hall	3A	1000	Diesel	AST	Steel	No	Yes	1999-2001
Greene Unit	4A	275	Diesel	AST	Steel	No	Yes	1999-2001
ICF 21	5A	330	No. 2	AST	Steel	No	Yes	1999-2001
ICF 22	6A	330	No. 2	AST	Steel	No	Yes	1999-2001
ICF 23	7A	330	No. 2	AST	Steel	No	Yes	1999-2001
ICF 24	8A	330	No. 2	AST	Steel	No	Yes	1999-2001
Farm & Grounds	9A	275	Diesel	AST	Steel	No	No	1975
Day Care	10A	275	No. 2	AST	Steel	No	No	1975
Volunteer Center	11A	550	No. 2	AST	Steel	No	No	1975
Wallace - Generator	12A	100	Diesel	AST	Steel	No	No	1984
Sequin - Generator	13A	100	Diesel	AST	Steel	No	No	1984
Cottage 11 - Generator	14A	85	Diesel	AST	Steel	No	Yes	1995
Pearlman Center	15A	5,000	Diesel	AST	Steel	No	Yes	1992
Winn - Generator	16A	30	Diesel	AST	Steel	No	No	1980
Cottage 17	17A	275	No. 2	AST	Steel	No	No	1975
Cottage 18	18A	275	No. 2	AST	Steel	No	No	1975
Garage	19A	2-275	Used Motor Oil	AST	Steel	No	Yes	1980

TABLE 2 - TOTAL PETROLEUM PRODUCT BULK STORAGE
FDC TRANSFORMERS

Transformer Location	Transformer No.	Cap. (gal.)	Content	Type	Material	Corrosion Protection	Secondary Contain.	Installed
Farm & Grounds	T1	15	Oil	Pole	Steel	Painted	No	NI
Chapel	T2	25	Oil	Pole	Steel	Painted	No	NI
Maintenance	T3	35	Oil	Pole	Steel	Painted	No	NI
Belmont	T4-T6	70	Oil	Pole	Steel	Painted	No	NI
Cottage 18	T7	25	Oil	Pole	Steel	Painted	No	NI
Tarbell	T8	219	Oil	Pad	Steel	Painted	No	NI
Sequin	T9	229	Oil	Pad	Steel	Painted	No	NI
Dolan	T10	219	Oil	Pad	Steel	Painted	No	NI
Farrell Hall	T11	229	Oil	Pad	Steel	Painted	No	NI
Greene	T12	401	Oil	Pad	Steel	Painted	No	NI
Site 5	T13	350	Oil	Pad	Steel	Painted	No	NI
Training/ Activity Center	T14	219	Oil	Pad	Steel	Painted	No	NI
Brookside	T15	300	Oil	Pad	Steel	Painted	No	NI
North Building	T16	0	Oil	Pad	Steel	Painted	No	NI
Withington	T17	370	Oil	Pad	Steel	Painted	No	NI
Manual	T18	300	Oil	Pad	Steel	Painted	No	NI
School House	T19	400	Oil	Pad	Steel	Painted	No	NI
South Nurse	T20	213	Oil	Pad	Steel	Painted	No	NI
Wallace	T21	213	Oil	Pad	Steel	Painted	No	NI
Power Plant	T24-T26	30	Oil	Pad	Steel	Painted	No	NI
Building 14	T27-T35	136	Oil	Pad	Steel	Painted	No	NI
Shriver	T36-T47	13	Oil	Wall	Steel	Painted	No	NI
Kelly Hall	T48-T50	3	Oil	Wall	Steel	Painted	No	NI
Waverly Hall	T51-T53	3	Oil	Wall	Steel	Painted	No	NI
Main Transformer Pad	T57	1,090	Oil	NI	Steel	Painted	No	NI
Building 55	T58-T61	220	Oil	Pad	Steel	Painted	No	NI
Building 14	T62-T64	NA	Oil	Pad	Steel	Painted	No	NI
Power Plant	T65-T67	NA	Oil	Pad	Steel	Painted	No	NI
Malone	T68	200	Oil	Pad	Steel	Painted	No	NI
Cottages 3-13	T69-T73	1,540	Oil	Pad	Steel	Painted	No	NI
Woodside	T74	NA	Oil	Pad	Steel	Painted	No	NI
Site 7	T75	NA	Oil	Pad	Steel	Painted	No	NI
East Dowling	T76	151	Oil	Pad	Steel	Painted	No	NI
Howe Hall	T77	NA	Oil	Pad	Steel	Painted	No	NI
New Service Bldg. (Pearlman)	T78	260	Oil	Pad	Steel	Painted	No	NI
Cerc	T79-T81	NA	Oil	Wall	Steel	Painted	No	NI
Kelly	T82-T86	855	Oil	NI	Steel	Painted	No	NI

APPENDIX C

SUBSTANTIAL HARM CRITERIA CHECKLIST

CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

Facility Name: Fernald Developmental Center
Facility Address: 200 Trapelo Road
Waltham, Massachusetts 02154

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
Yes _____ No X

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest above-ground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?
Yes _____ No X

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?
Yes _____ No X

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?
Yes _____ No X

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
Yes _____ No X

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature

Name

Title

Date

APPENDIX D
EMERGENCY CONTACTS

EMERGENCY CONTACTS

Name	Phone
Facility Director, Joe Breen	781-894-3600 ext. 2100
Chief of Campus Police, Joseph Merrullo	Radio 0
Chief Power Plant Engineer, Ed Wong	781-894-3600 ext. 2184
Director of Core Services, Jon Graves	781-894-3600 ext. 2450
Director of Campus Safety, Paul Birmingham	781-894-3600 ext. 2213
Motor Equipment Mechanic, Richard Grandfield	781-894-3600 ext. 2175
Director of Farm and Grounds, Peter Maxon	781-894-3600 ext. 2168

EXHIBIT D-2

Oil Pipeline Documentation

Fodor, Gretchen

From: Wiggan, Allen (DCP) [Allen.Wiggan@state.ma.us]
Sent: Friday, July 10, 2009 11:47 AM
To: Fodor, Gretchen
Subject: RE: Information on Petroleum Pipeline easement through Fernald Development Center in Waltham

Attachments: 5march09 Ltr Extension of Fiber Optic Cable in Waltham.pdf; License Extension for Fiber Optic Cable within and Existing Pipeline on State Property in Waltham 9feb09.pdf; License to occupy state-owned Real Property 12feb2002.pdf

Ms. Fodor:

Attached are some documents addressing the pipeline you found. I'm told that an easement was granted to an oil company which resulted in Exxon holding it. It was abandoned. Then the pipeline was the subject of a license to a company to run fiber optic cable through it. This license has been extended every year since 2002. It houses fiber optic cable, or it might if the cable was ever run, which I remain unsure of. I have requested the plans showing where the pipeline runs. I may not get them until Monday. When I get them, I'll fwd them to you.

Allen ext. 576

From: Fodor, Gretchen [mailto:GFodor@TechLawInc.com]
Sent: Thursday, July 02, 2009 4:24 PM
To: Wiggan, Allen (DCP)
Subject: Information on Petroleum Pipeline easement through Fernald Development Center in Waltham

Hello Allen,

While on my site inspection this week with Paul Bermingham at the Fernald Development Center, we noticed a pipeline marker just north of Malone Park Drive which marks the location of a petroleum pipeline operated by Exxon that runs through the Property. I have asked city personnel about the pipeline, and the Waltham Engineering Department is aware that the state granted an easement for the pipeline to Exxon, but has no information on it. I wonder whether anyone at the Department of Mental Retardation Engineering (DMR Engineering) in Boston (located at 500 Harrison Ave) can provide me with information about the pipeline. Paul Bermingham said that they might have information on the pipeline but since my Scope of Work specifies that TechLaw is not permitted to contact other state agencies without DCAM's approval, I wonder whether you would be able to identify the persons at DMR Engineering who may be knowledgeable of the Exxon pipeline and forward my request for information to them on my behalf?

Thank you for letting me know and have a great holiday weekend.



Gretchen M. Fodor, CHMM
 Senior Staff Consultant

The Wannalancit Mills
 175 Cabot Street, Suite 415
 Lowell, MA 01854

(978) 275-9730, Ext. 203
 (978) 275-9489 (fax)
gfodor@techlawinc.com



ROPE & GRAY LLP
ONE INTERNATIONAL PLACE
BOSTON, MA 02110-2624
WWW.ROPEGRAY.COM

March 5, 2009

Mary T. Marshall
617-951-7177
617-235-0870 fax
mary.marshall@ropesgray.com

David Opatka
Project Manager
Office of Real Estate Management
Commonwealth of Massachusetts
Division of Capital Asset Management
One Ashburton Place
15th Floor
Boston MA 02108

Re: Extension of Fiber Optic Cable within an Existing Pipeline Located in State Land in Waltham, Massachusetts

Dear David:

It was great to catch up with you last week. Clearly where there is upheaval and change in many areas – some things stay constant.

As discussed, I have enclosed the following documents which depict the extent to which the proposed telecommunications conduit is on or over land owned by the Commonwealth in Waltham, Massachusetts:

1. Drawings entitled "Route of Pipelines for Fiber Optic Use Through Waltham, Massachusetts," Sheets 1, 2 and 3, dated June 7, 2001, prepared by Utility Consultants, Inc. ("Pipeline Route");
2. Drawing entitled "Easement Plan of Land in Waltham, Massachusetts, Middlesex County," dated September 19, 2001, prepared by Digital Geographic Technologies, Inc. ("Easement Plan"); and
3. Commonwealth of Massachusetts License to Enter Upon State-Owned Property Dated October 30, 2000 between DCM and C2C Fiber of Massachusetts, Inc. (the "License"). [This License has been assigned and assumed by Sunesys.]

It would appear based upon a review of the License as executed with DCAM that the existing pipeline easement is 30 feet wide along the entire length of the right of way which, according to the License, extends a total of 10,109 linear feet along land owned by the Commonwealth. Details on the length of the pipeline are described in Exhibit A of the License and include the former

Massachusetts State Hospital, the W.E. Fernald School and the Massachusetts State College Field Station properties.

It is my understanding that you will review this matter and accompanying plans with an appraiser who is familiar with similar conduit interests in land owned by the Commonwealth and determine the appropriate method to value the future easement area. While ultimately any acquisition of an easement by Sunesys would require legislative action (including action in accordance with Article 97), this will set some parameters on the amount that the Commonwealth will expect as compensation for the easement area.

The installation of the conduit proper will require that Sunesys remove certain (now obsolete) elements of the former gas pipeline and install required manholes, hand holes and pull assist points so that the conduit can achieve its proper level of functionality for telecommunication purposes. We will make slight revisions to the existing draft legislation to include this right explicitly, but do not think this should have any impact on valuation of the easement. We would however appreciate your confirmation of the same.

There is also a secondary question raised by the installation of the conduit with respect to whether the length designated by a dashed line along Beaver Street to its intersection with Waverly Oaks Road is included within the length of conduit described in the License. For ease and reliability of installation, Sunesys would prefer an arc-like traverse following the line of the existing 10" wide sewer easement shown in greater detail on the enlarged Easement Plan, along a path which is highlighted in purple on the larger scale Easement Plan. This arc is slightly less than that L-shaped traverse, so likely would not result in additional conduit length (assuming it is within the 10,109 linear feet of pipeline noted above - which will need to be confirmed.)

Please review the enclosed and do not hesitate to contact me should you have any questions. I appreciate your review and assistance with this matter and look forward to working with you again.

Very truly yours,



Mary T. Marshall

MTM:bjn
Enclosures

cc (w/o encl.): Paul T. Bradshaw
Nancy E. Loeb, Esq.

**COMMONWEALTH OF MASSACHUSETTS
LICENSE TO OCCUPY STATE-OWNED REAL PROPERTY**

This instrument ("License") is a License by and between the Commonwealth of Massachusetts, acting by and through its **Division of Capital Asset Management and Maintenance** ("Licensor") and the (Licensee"), a(n) (check one)

- | | | | |
|-------------------------------------|----------------------------|--------------------------|-------------------------------|
| <input type="checkbox"/> | Individual | <input type="checkbox"/> | General Partnership |
| <input type="checkbox"/> | Business Corporation | <input type="checkbox"/> | Limited Partnership |
| <input type="checkbox"/> | Not-For-Profit Corporation | <input type="checkbox"/> | Limited Liability Partnership |
| <input checked="" type="checkbox"/> | Limited Liability Company | <input type="checkbox"/> | other: |
| <input type="checkbox"/> | Sole Proprietorship | | |

Licensee's Social Security (SSN) or Employer Identification Number (EIN): 76-0599776

The Commonwealth of Massachusetts is the owner of certain real property (the "Licensed Premises") that is more fully described in Article 2 of, and **Exhibit A** to, this License. Licensee desires to enter upon the Licensed Premises for the purposes described in Article 3 of this License.

Now, therefore, Licensor grants privileges of such entry solely for the permitted uses defined in Article 3 of this License, and the other privileges set forth in this License, and Licensee accepts the same, subject to the following terms and conditions:

1. REFERENCE DATA

A. Date of License:

February 12, 2002

B. Mailing Address of Licensor:

Division of Capital Asset Management and
Maintenance
Attn: Office of the General Counsel
One Ashburton Place, Room 1505
Boston, Massachusetts, 02108
TEL NO. (617) 727-4053
FAX NO. (617) 727-5363

C. Mailing Address of Licensee

C2C Fiber of Massachusetts, LLC
168 Ayer Road
Littleton, MA 01460
TEL NO. 978-486-0609
FAX NO. 978-486-0587

D. Licensed Premises:

As defined and described in Article 2 of, and
Exhibit A to, this License.

E. Permitted Use:

As defined in Article 3 of this License.

F. Term of License (not to exceed 5 years): As defined in Article 5 of this License.

G. Consideration to be paid by Licensee: As defined in Article 6 of this License.

2. LICENSED PREMISES

A. Entry and use are limited to the Licensed Premises, as shown on the plan(s) or diagram(s) attached to this License as Exhibit A, and further described as follows:

The Licensed Premises is a narrow strip of land (with a width of 30 feet) which is a portion of certain pipeline easements located on certain property of the Commonwealth known as the Walter E. Fernald School, the Massachusetts State College Field Station and the Metropolitan State Hospital in Waltham, Massachusetts. Licensee represents and warrants that by virtue of that Assignment and Assumption Agreement dated July 28, 2000 by and between Licensee and Exxon Mobil Corporation that Licensee is the owner of the underground pipeline installed by Colonial Beacon Oil pursuant to the following pipeline easements:

(i) Easement dated 1944, granted by the Commonwealth of Massachusetts, Department of Mental Health to Colonial Beacon Oil Company; and (ii) Easement dated August 31, 1944 granted by the Commonwealth of Massachusetts, acting through the Board of Trustees for the Massachusetts State College, to Colonial Beacon Oil Company, recorded with the Middlesex South Registry of Deeds in Book 7254, Page 204 ((i) and (ii) being referred to collectively as the "Prior Pipeline Easements").

The License Premises are more particularly described on the License Plans attached hereto as Exhibit A (the "License Plans"). Copies of the Prior Pipeline Easements are attached hereto as Exhibit A-1.

(Attach plan(s) or diagram(s), marked as Exhibit A, showing location of the Licensed Premises)

B. Licensee and Licensee's employees, agents and contractors shall have, as appurtenant to this License, the non-exclusive access to and use, in common with others entitled thereto, of any public sidewalks, and entrances and exits from public streets and highways serving the Licensed Premises.

3. PURPOSES AND USE

The privileges of Licensee under this License with regard to the Licensed Premises shall be for the following and no other purposes and use (the "Permitted Use"):

Installation, maintenance and operation of fiber optic cable and related conduit and other communications equipment (the "Conduit System") only within an existing subsurface pipeline (consisting of both a six-inch and an eight-inch diameter pipe) located within the Licensed Premises. Prior to accessing the Licensed Premises for any of the purposes permitted by this License, Licensee shall give reasonable advance notice to the Licensor's Project Managers, as identified on Exhibit A-2 (or its successors or assigns) with care and control of the portion of the Licensed Premises to be accessed, to ensure non-interference with the Licensor's (or its successors or assigns) use and operation of the Licensed Premises. Access to the pipelines shall be at the locations specifically identified on the License Plans as "Proposed Manhole Fiber Optic Placement Location," "Existing Valve Box Fiber Optic Placement Connect Existing Pipeline to New Conduit" and "Proposed Handhole Fiber Optic Placement Location" (the "access points"). All of the access points shall be subject to compliance with all laws including the Wetlands Protection Act and all local laws and ordinances governing wetlands, and the location of all access points may be subject to relocation as may be necessary in the Licensor's and Commissioner's discretion to protect the interest of the Commonwealth and the condition, operation, development, function, use and value of property of the Commonwealth. All access to the Licensed Premises shall be limited to those areas as the Commissioner and/or the Licensor in their discretion determine necessary to protect the interest of the Commonwealth and the condition, operation, development, function, use and value of property of the Commonwealth.

Licensee agrees further to extinguish its rights, if any, and the rights of its successors and assigns, if any, to use the Prior Pipeline Easements. Any extinguishment of the Prior Pipeline Easements shall not release the current easement holder and their successors and assigns from any liability under the Prior Pipeline Easements.

4. LICENSEE'S EQUIPMENT

Licensee may bring such vehicles and other equipment upon the Licensed Premises as would ordinarily be used to operate and use the Licensed Premises for the Permitted Uses, subject however, to the following limitations: (Do not leave blank – if no limitations, write "none").

The use of any vehicles and equipment shall be limited to the following types of equipment and vehicles: a reel truck, backhoe, dump truck, tanker truck for possible dewatering purposes, a flatbed with crane attachment and pick-up trucks; the use of any such vehicles and equipment shall be temporary in nature, such vehicles and equipment shall not be used or left on any of the Licensed Premises, other than during

the hours of 7:00 a.m. to 6:00 p.m., and such vehicles and equipment shall not cross any environmentally sensitive areas, including without limitation, areas of wetlands.

5. TERM

The term of this License shall not exceed five years.

A. The term of this License shall commence on execution date of this License and shall expire on the earlier of (a) five years from the execution date of this License or (b) the execution and delivery of the easement agreement in accordance with the legislation for permanent uses of the Licensed Premises (as set forth in Exhibit D attached hereto), unless otherwise terminated earlier in accordance with the terms of Article 16.

B. The term of this License

shall not be extended

may be extended on the following terms, subject to the prior written approval of Licensior: N/A.

5A. HOURS OF OPERATION

During the term of this License, Licensee shall be permitted to operate and use the Licensed Premises for the purposes set forth in Section 3. Subject to the access provisions set forth in Section 3, Licensee agrees that it shall limit its physical access to the Licensed Premises for work in conjunction with the installation and maintenance of the communications system only in the pipeline, with the exception of emergency situations, during the following times only:

Weekdays: from 7:00 a.m. to 6:00 p.m.

Saturday & Sunday: None

State Holidays: None

6. LICENSE FEE

In consideration of the privilege granted to Licensee under this agreement, Licensee shall pay the following License Fee:

A lump sum payment of \$85,153 (United States Dollars), prior to the commencement of the Term of this License. The License Fee is based upon an appraisal dated April 1, 2001 prepared by Hopson-Pino Incorporated prepared for Division of Capital Asset Management.

The License Fee shall be delivered to Licensior at the address shown on page 1 of this License and shall be payable in good funds to the order of the Commonwealth of Massachusetts.

7. CONDITION OF PREMISES AND LICENSEE'S ASSUMPTION OF RISK

Licensee acknowledges and agrees as follows:

A. Licensee accepts the Licensed Premises in "as-is, where-is" condition.

B. Licensior is under no obligation to make any repairs, renovations, or alterations to the Licensed Premises.

- C. Licensor has made no representations or warranties whatsoever regarding the Licensed Premises, including, without limitation, no representations or warranties regarding fitness of the Licensed Premises for Licensee's intended purpose or use.
- D. Licensee agrees that Licensee shall enter upon and use the Licensed Premises at Licensee's own risk, and Licensor shall not be liable to Licensee for any death or personal injury, or for any loss or damage to vehicles, equipment, fixtures, or other personal property of Licensee that are brought upon the Licensed Premises. In furtherance and not in limitation of the foregoing, the Licensee hereby acknowledges that a portion of the Licensed Premises are located at a former state hospital, which was closed several years ago. The Licensed Premises, including, without limitation, any buildings located on the Licensed Premises, have not been maintained for on-going occupancy. Accordingly, the Licensed Premises, including without limitation, the interiors and exteriors of any buildings on the Licensed Premises, may be in unsafe condition.
- E. Licensee accepts complete liability for the acts, omissions, and negligence of Licensee and the officers, agents, contractors, employees, and invitees of Licensee while present upon the Licensed Premises or while exercising Licensee's rights hereunder.
- F. Without limiting the foregoing, Licensor shall have no liability to Licensee or to Licensee's officers, agents, contractors, employees, or invitees for any injury, death, loss, or damage caused by any act of Licensee's invitees, officers, agents, contractors, employees, or members of the general public.
- G. If Licensee fails to obtain or to maintain any of the insurance coverage required by Article 9, or if any of the required insurance policies is cancelled, it shall be grounds for immediate termination of this License as provided in Section 16C of this License.

JFK

Licensee's
Initials

8. INDEMNIFICATION

- A. Licensee shall indemnify Licensor and the Commonwealth of Massachusetts and save them harmless from and against any and all injury, loss, claim, action, damage, or liability arising out of any act, failure to act, or negligence of Licensee, or of Licensee's officers, agents, contractors, employees, or invitees.
- B. Licensee accepts complete liability for the acts, omissions and negligence of the Licensee and its officers, directors, partners, owners, agents, contractors, employees, representatives and invitees while present upon the Licensed Premises or while exercising Licensee's rights hereunder. Without limiting the foregoing or any other provision of this License, the Licensee shall be responsible for the proper handling, transportation, treatment, storage and disposal of any soil, water, asbestos or other materials removed or disturbed during the performance of any Permitted Uses under this License and for any condition exacerbated or created as a direct or indirect result of the performance of any such Permitted Uses. Licensee agrees to indemnify, save and hold harmless Licensor and the Commonwealth of Massachusetts, and its officers, employees, affiliates and representatives from any and all liabilities, claims, losses, injuries, actions, damages, penalties, costs or expenses arising from or on account of any breach by Licensee or its contractors, agents, employees, representatives or invitees of the terms and conditions of this License or any negligence, gross negligence or intentional misconduct or acts or omissions of Licensee or its contractors, agents, employees, representatives or invitees in connection with or in the

carrying out of the Permitted Uses or any other activities pursuant to this License or at the Licensed Premises. Notwithstanding anything in this paragraph to the contrary, Licensee shall have no obligations for conditions discovered, but not caused or exacerbated, by Licensee while present on the Licensed Premises or while exercising the rights granted under this License. This indemnity and hold harmless agreement includes indemnity against all costs, expenses and liabilities including, without limitation, court costs, attorneys fees, and response costs in connection with any such injury, loss, damage or liability or any such claim, or any proceeding brought thereon or in defense thereof.

- C. This indemnity and hold harmless agreement shall survive the termination or expiration of this License and shall include indemnity against all costs, expenses, and liabilities, including without limitation, attorneys fees, in connection with any such injury, loss, or damage or any such claim, or any proceeding brought thereon or in defense thereon.

9. INSURANCE

Licensee shall keep in force, at Licensee's sole cost and expense during the full term of this License and during such other times as Licensee occupies the Licensed Premises or any part thereof, the following insurance policies:

- A. Comprehensive public liability insurance insuring Licensee against all claims and demands for personal injury or damage to property which may be claimed to have occurred upon or about the Licensed Premises. Said insurance shall be written on an occurrence basis to afford protection in the amount of five million dollars combined single limit for personal and bodily injury and death and for property damage, with a so-called "broad-form" endorsement and contractual liability coverage insuring the performance by Licensee of the indemnity agreement set forth in Article 8 of this License.
- B. Vehicle Liability Insurance covering each vehicle of Licensee entering the Licensed Premises in an amount not less than the compulsory coverage required in Massachusetts.
- C. Workers compensation insurance covering Licensee's employees, if any, upon the Licensed Premises in such amounts as are required by law.
- D. Employer's Liability Insurance affording protection in the amount of not less than \$500,000 per accident and \$500,000 for disease.
- E. Such other types of insurance and in such amounts as Licensor may require from time to time.
- F. The insurance coverage required by this Article 9 shall be by standard policies obtained from financially sound and responsible insurance companies authorized to do business in Massachusetts.
- G. Each said insurance policy shall name the Commonwealth of Massachusetts as an additional insured and shall contain a provision stating that such coverage shall not be cancelled, reduced, or otherwise materially altered without at least ten days prior written notice to Licensor. Cancellation, reduction, or other material alteration shall be grounds for termination of this License pursuant to Section 16C of this License.

H. If Licensee fails to obtain or to maintain any of the insurance coverage required by this Article 9, or if any of the required insurance policies is cancelled, it shall be grounds for immediate termination of this License as provided in Section 16C of this License.

I. One or more certificates of insurance showing insurance coverage as required by this Article 9 as attached to this License as Exhibit C.

The insurance coverage required by this Section shall be standard policies written on an occurrence basis, obtained from financially sound and responsible insurance companies authorized to do business in Massachusetts. Said insurance policy or policies shall name the Commonwealth of Massachusetts as an additional insured and first loss payee, as appropriate, and shall contain a provision stating that such coverage shall not be cancelled, reduced or otherwise altered without at least thirty (30) days prior written notice to the Licensor. Certificates of Insurance showing such insurance coverage as required by this Section are attached to this License as Exhibit C. Licensor reserves the right to request copies of the full insurance policies required hereunder. In the event Licensee fails to obtain any of the insurance coverage required by this Section 9, or if any of the required insurance policies is cancelled, it shall be grounds for immediate termination of this License as provided in Section 16(C) of this agreement.

The insurance specified above (except for Worker's Compensation Insurance) shall contain waivers of subrogation in favor of Licensor and the Commonwealth of Massachusetts and provide that said insurance is primary coverage with respect to Licensee's activities hereunder.

Licensee hereby waives and relinquishes, and agrees to cause all its contractors and subcontractors to waive and relinquish, any right of subrogation it might have against Licensor and the Commonwealth of Massachusetts on account of any claim caused in whole or in part by any negligent or wrongful act or omission of Licensor or of any other agency of the Commonwealth. Licensee further agrees that it will require its insurers and its contractors' and subcontractors' insurers (except for Worker's Compensation Insurance) to likewise waive and relinquish such subrogation rights and furnish evidence of waiver to Licensor.

Licensee further waives and relinquishes, and agrees to cause its contractors' and subcontractors' insurers to waive and relinquish, any right of subrogation they may have against the Licensor and the Commonwealth under the provisions of the Worker's Compensation Act in Massachusetts to the full extent possible under Licensee's and its subcontractor's worker's compensation insurance policies.

10. LICENSEE'S RESPONSIBILITY FOR PERMITS

A. This agreement and all obligations hereunder are specifically dependent upon the issuance to Licensee, prior to any entry upon the Licensed Premises, of all permits and licenses required to enter upon the Licensed Premises for the purposes described in this License from all governmental agencies having jurisdiction.

B. It shall be the responsibility of Licensee to obtain all such permits or licenses at Licensee's sole cost and expense.

C. If Licensee is refused any such permit or license, this License shall be null and void, with no further obligation by either party to perform, except for those obligations which survive this License.

D. If any such permit or license is revoked or cancelled during the term of this License, it shall be cause for terminating this License immediately as set forth in Section 16C hereof.

11. UTILITIES (Mark A, B or C and any necessary subparts).

A. X The Licensed Premises are not served by any utilities.

B. ___ Licensee shall pay for the following utility service(s):

___ electricity; ___ heat; ___ water.

C. ___ Licensor shall pay for the following utility service(s):

___ electricity; ___ heat; ___ water.

If Licensor provides any utility system at the Licensed Premises or agrees to pay for the cost of any utility service, Licensor makes no representation or warranty whatsoever with respect thereto including, without limitation, no representation or warranty as to the adequacy of same for the purposes of Licensee. Licensor shall not be responsible for any interruption in utility service. Licensor may, at any time, require Licensee to contract directly with the supplier of such service. This License specifically excludes the right to use any utilities serving the Premises.

12. ALTERATION OF THE PREMISES

Licensee shall make no alterations or improvements upon the Licensed Premises except as specifically permitted in a separate Schedule attached to this License as Exhibit B. Licensee shall not make any alterations or improvements upon the Licensed Premises after this License has commenced unless Licensee has obtained Licensor's prior written approval, which may be withheld for any reason or for no reason in Licensor's sole discretion. Any alterations or improvements made by Licensee shall be made in accordance with the terms and conditions established by Licensor, which may include prior approval of plans, insurance coverage, and a requirement that Licensee remove any or all of its alterations or improvements upon the expiration or earlier termination of this License. All such alterations or improvements remaining upon the Licensed Premises after the expiration of this License shall be subject to the provisions of Section 13K hereof. In any event, this License does not for any purpose constitute the granting of an interest in real property and Licensee shall not have any right to make any permanent improvements to, or to install any permanent fixtures on, the Licensed Premises.

Licensee shall pay for all labor and materials properly performed and supplied in a timely manner and shall provide to Licensor payment and performance bonds issued by sureties authorized to issue bonds in the Commonwealth, covering all of the work by or on behalf of Licensee in or above the Licensed Premises.

13. CONDUCT OF LICENSEE

A. Compliance with Licensor's Directives

Licensee agrees to observe and obey all directives given by duly designated personnel of Licensor.

B. Compliance With Laws

Licensee shall at all times use and operate the Licensed Premises in accordance with all applicable laws, statutes, ordinances, regulations, permits, licenses, and the requirements of Licensee's insurance policies.

C. Non-interference with Operations of Licensor or Others

Licensee shall at all times conduct itself so as not to interfere in any way with the operation or use of the Licensed Premises by the Licensor or any other person entitled to use the Licensed Premises or any portion thereof. Licensee agrees to observe and obey all directives given by duly designated personnel of Licensor.

D. Repair of Damage

Licensee shall neither cause nor suffer any waste of the Licensed Premises, and shall maintain the Licensed Premises in good order at all times. Licensee's responsibilities shall include, but not be limited to, the repair of any and all damage or breakage resulting from acts of vandalism or the intentional or negligent acts of the Licensee or others, but excluding damage or breakage caused by employees, agents or invitees of the Licensor. All repairs made by Licensee shall be performed in a manner satisfactory to Licensor. Licensor shall have the option to make such repairs for the account of Licensee, in which event Licensee shall reimburse Licensor for any and all costs incurred by Licensor to make such repairs. Payment shall be made by Licensee within ten (10) business days after written demand by Licensor.

E. Sanitation

Licensee shall maintain the Licensed Premises in a sanitary condition and shall follow all directions of Licensor with regard to the collection and disposal of refuse.

F. Security

Licensee shall be solely responsible for providing, at Licensee's sole cost and expense, such security protection or services as Licensor may reasonably require, in Licensor's sole discretion, to protect the Licensed Premises, Licensee's invitees, third parties and the public from injury or damage.

G. Cost of Operations

Except as otherwise expressly set forth in this License, Licensee shall be responsible for any and all costs and expenses associated with Licensee's exercise of its privileges under this License and Licensee's operations upon the Licensed Premises.

H. Operations Limited to Permitted Uses

Licensee shall not conduct, nor permit any of its employees, agents or invitees to conduct, any activity, operations or business upon the Licensed Premises except for that permitted by Article 3 of this License.

I. Hazardous Materials

Without limiting any of Licensee's obligations under this or any other Section of this License, Licensee agrees that Licensee shall not cause or permit any hazardous materials to be used, generated, stored or disposed of on, under or about, or transported to or from the Licensed Premises. For the purposes of this License, "hazardous materials" shall include, but not be limited to, substances defined as "hazardous substances", "toxic substances", "hazardous wastes", "hazardous materials", or "oil" in any federal or state statute concerning hazardous materials now or hereafter enacted, including all regulations adopted or publications promulgated thereunder.

Without limiting any of Licensee's obligations under this or any other Section of this License, Licensee agrees that it shall not cause any hazardous materials to be used, generated, stored or disposed of on, under or about, or transported to, from or through the Licensed Premises, except for soil, groundwater or any other material (a) existing on the Licensed Premises on the execution date or (b) removed from the Licensed Premises by Licensee as required for the Permitted Uses (e.g., drill cuttings and soil samples). Licensee assumes full liability and responsibility for such soil, groundwater or other material removed from and not placed on the Licensed Premises including, but not limited to, responsibility for ensuring that the handling, treatment, transport, storage and/or disposal of these materials is properly and safely performed according to all applicable federal, state, and local laws, regulations and governmental requirements.]

If Licensee's use of the Licensed Premises results in the need for a response action under applicable environmental laws, the Licensee shall give immediate telephone notice to Licensor by calling the General Counsel at (617) 727-4050. Without limiting any other provision of this License, completion of any such response action shall be the sole responsibility of the Licensee, shall be performed in accordance with applicable environmental laws at Licensee's sole expense, and shall not be performed without the prior approval of the Licensor unless an emergency situation exists and approval cannot be obtained. Licensor reserves the right to supervise Licensee's contractor(s) implementing any such response action, and all submittals required to be made to any regulatory agency must be reviewed and approved by Licensor. Notwithstanding anything in this paragraph to the contrary, Licensee shall have no obligation to implement a response action for conditions discovered by, but not caused or exacerbated by Licensee, while present on the Licensed Premises or while exercising the rights granted to it under this License; provided however, that Licensee shall report any such conditions to Licensor as soon after the discovery of such conditions as possible.

The terms and provisions of this Section 13.I shall survive the termination or expiration of this License.

J. Alcoholic Beverages

Unless specifically permitted by the terms of this License, Licensee shall not bring, store, maintain, consume or serve alcoholic beverages upon the Licensed Premises, nor allow any of Licensee's employees, agents, contractors or invitees to do the same.

K. Surrender of Premises

Upon the expiration or earlier termination of this License, Licensee shall immediately vacate and surrender the Licensed Premises to Licensor. Licensee shall also remove all of its property from the Licensed Premises and restore the Licensed Premises to the condition the Licensed Premises were in at the commencement of this License, reasonable wear and tear excepted, and, subject further, to any obligation Licensee may have hereunder to make repairs or improvements to the Licensed Premises. Upon written agreement of the parties, Licensee may abandon all or part of its property in place. In the event any of Licensee's personal property remains on the Licensed Premises after the expiration or earlier termination of this License without a written agreement between the parties, said property shall be deemed abandoned and may be retained by Licensor without any compensation to Licensee, or may be removed and either stored or disposed of by Licensor at the sole cost and expense of Licensee.

The terms and provisions of this Section 13.K shall survive the termination or expiration of this License.

14. ASSIGNMENT

The Licensee shall not sell, assign, sublet, mortgage or transfer any interest in this License or any part of the Premises without obtaining, in each instance, the prior written consent of Licensor, which consent may be withheld for any reason or for no reason, or granted upon such conditions as Licensor shall determine, all in its sole discretion.

15. RIGHTS OF LICENSOR AND AGENCY TO ENTER

- A. Licensor reserves the right for itself, other representatives of the Commonwealth of Massachusetts, and their contractors, agents, employees, and invitees to enter the Licensed Premises at any time to make repairs, perform maintenance, inspect the Licensed Premises, show the Licensed Premises to others, monitor compliance with this License, or for any other reason.
- B. Licensee shall not interfere with the exercise of this right and shall cooperate with Licensor, other representatives of the Commonwealth of Massachusetts, and their agents.

16. TERMINATION

This License shall expire on the date specified in Section 5.B, unless terminated earlier under the following conditions:

- A. Without Cause. Either Licensee or Licensor may terminate this License by giving written notice to the other party at least thirty (30) calendar days prior to the effective date of termination stated in the notice.
- B. For Cause. If, in the opinion of Licensor, Licensee fails to fulfill its obligations, Licensor may terminate this License by giving written notice to the Licensee at least five (5) calendar days before the effective date of termination stated in the notice. The notice shall specify in reasonable detail the nature of Licensee's breach. The notice may also state a period during which the breach may be cured by Licensee, provided that such period shall expire on or before the termination date stated in the notice. In the event the Licensee is given an opportunity to cure its breach (which shall be within the sole discretion of Licensor) and Licensee fails to complete such cure to the satisfaction of Licensor within the cure period, this License shall come to an end on the termination date stated in the notice.
- C. Emergency. In the event Licensor determines that it is necessary to terminate this License or suspend Licensee's rights hereunder immediately in order to prevent injury or damage to persons or property, including, but not limited to, the interest of the Commonwealth of Massachusetts in the Licensed Premises, or to protect state or federal funds, Licensor may terminate this License or suspend Licensee's rights hereunder by providing written notice to Licensee stating the grounds for said termination or suspension. Said notice may be given in the form of a telegram, mailgram, hand-carried letter, "fax" or other reasonable written means, and this License shall be terminated or suspended, as the case may be, upon delivery of said notice to Licensee.

If this License is terminated in accordance with any of the provisions of this Article 16, this License shall come to an end as fully and completely as if the term had expired on the date set forth in Section 5B, and Licensee shall vacate and surrender the Premises as provided in Section 13K.

Upon the expiration or earlier termination of this License, Licensor may, immediately or at any time thereafter, enter upon the Licensed Premises or any part thereof and expel the Licensee and those claiming through or under the Licensee and remove their effects forcibly if necessary. This remedy shall be without prejudice to any other remedies which Licensor may have for breach of this License by Licensee.

If this License is terminated by Licensor in accordance with any of the provisions of this Article 16, Licensee shall not be relieved of liability to Licensor for arrears in the License Fee or for any other injury or damage sustained by Licensor or the Commonwealth of Massachusetts as a result of a breach by Licensee of any of the terms or conditions of this License, whether occurring before or after such termination.

Licensee expressly waives any right to damages related to such termination, including incidental or consequential damages.

17. NO ESTATE CREATED

This License shall not be construed as creating or vesting in Licensee any estate in the Premises, but only the limited privileges of entry, use and possession as herein described.

- A. Licensee understands, acknowledges, and agrees that Licensee is acquiring no interest or rights whatsoever in or to the Licensed Premises by virtue of this License and that Licensee is hereby granted the privileges of entering and using the Licensed Premises in accordance with the provisions of this License.
- B. This License does not constitute the granting of an interest in real property for any purpose, and Licensee shall not have any right to make any permanent improvements to, nor to install any permanent fixtures on, the Licensed Premises.
- C. Licensee shall have no right to require specific performance of the obligations of Licensor hereunder.
- D. Licensor and Licensee agree and understand that Licensee shall file no later than one year after the execution date hereof legislation in the form attached as Exhibit D, to authorize Licensor to grant to Licensee to grant a permanent easement to use the Licensed Premises for the Permitted Uses.

Any changes to the legislation must be approved by Licensor in advance.

18. NON-DISCRIMINATION

- A. Licensee shall not discriminate against any qualified employee, applicant for employment, subcontractor, or person or firm seeking to provide goods or services to Licensee, nor shall Licensee deny any person access to the Licensed Premises or to any activities or programs carried out pursuant to this Licensee because of race, color, national origin, ancestry, age, sex, religion, physical or mental handicap, or sexual orientation.
- B. The Licensee shall comply with all applicable federal and state statutes, rules, and regulations prohibiting discrimination in employment and accommodations.

19. NOTICE

Unless otherwise expressly permitted hereunder, all notices or other communications required or permitted to be given under this License shall be in writing, signed by a duly authorized representative of the party giving the notice and shall be given by hand delivery (including, without limitation, courier, Federal Express, or other overnight delivery service) or mailed by United States certified mail, postage prepaid, return receipt requested.

Such notices shall be sent or addressed to Licensor and Licensee at the addresses set forth in Article 1 of this License.

Notices served as aforesaid shall be deemed given for all purposes (i) on the date shown on the receipt for such delivery or (ii) as of the date such notice was sent in the event delivery is refused or acceptance could not be obtained.

20. MISCELLANEOUS PROVISIONS

- A. This License may not be modified except in writing, duly executed by both parties.
- B. This License contains the entire agreement of the parties and there are no other agreements or understandings between the parties regarding the subject matter of this License.
- C. The Licensee, its employees, officers or agents are not authorized to bind or involve the Licensor or the Commonwealth of Massachusetts in any contract or to incur any liability for or on the part of the Licensor or the Commonwealth of Massachusetts.
- D. If any portion of this License is declared to be illegal, unenforceable or void, then all parties to this License shall be relieved of all obligations under that portion; provided, however, that the remainder of this agreement shall be enforced to the fullest extent permitted by law.
- E. No consent or waiver, whether express or implied, by Licensor to or of any breach of the terms of this License by Licensee shall be construed as a consent or waiver to or of any other breach. No waiver of any breach or default or other indulgence shall be effective unless expressed in writing by Licensor.
- F. The preamble of this License is an integral part of this License and not mere recitals.
- G. The captions in this License are inserted for convenience of reference only and in no way define, describe or limit the scope or intent of this License or any of the provisions hereof.
- H. No official, employee or consultant of the Commonwealth of Massachusetts shall be personally liable to Licensee or to any person claiming under or through Licensee for or on account of any alleged breach of this License, or for any act, failure to act or other matter arising out of the execution of this License or the performance of Licensor's obligations hereunder.
- I. This License shall be governed by, and construed in accordance with the laws of the Commonwealth of Massachusetts, and any and all legal actions brought in connection with this License shall be brought in courts within the Commonwealth of Massachusetts.
- J. This License is to take effect as a sealed instrument.

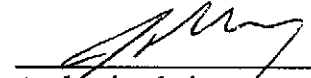
K. The following exhibits and attachments are made a part of this License for all purposes:

- ___ Exhibit A - Plan or Diagram of Licensed Premises
- ___ Exhibit A-1 – Prior Pipeline Easements
- ___ Exhibit A-2 – Project Managers
- ___ Exhibit B - Schedule of Permitted Alterations and Improvements
- ___ Exhibit C - Insurance Certificate(s)
- ___ Exhibit D - Legislation entitled “An Act Authorizing the Division of Capital Asset Management and Maintenance to Convey Easements on State Property in Waltham for Communications Purposes.”

WITNESS the duly authorized signatures of Licensee and Licensor on counterparts of this License, each of which shall be considered to be an original, for all interests and purposes. This License shall be valid upon, but not before, the delivery of a fully executed counterpart to Licensee by Licensor.

AGREED AND ACCEPTED

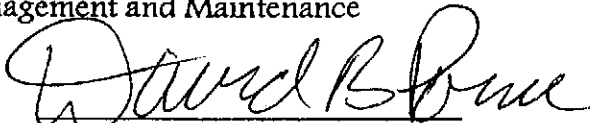
LICENSEE: C2C Fiber of Massachusetts, LLC


 Authorized Signature
JOHN F. KELLEY
 Print Name

Chief operating officer
 Title
11/15/01
 Date

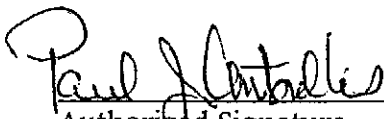
Each Licensor is executing this License only with respect to that portion of the Licensed Premises under the respective Licensor's care and control.

LICENSOR: Commonwealth of Massachusetts, acting by and through its Division of Capital Asset Management and Maintenance


 Authorized Signature
David B. Perini
 Print Name

Commissioner
 Title
2/12/02
 Date

Commonwealth of Massachusetts, acting by and through its Department of Mental Retardation


 Authorized Signature
Paul J. Antonellis
 Print Name

Fac. Dir.
 Title
11-9-01
 Date

University of Massachusetts Amherst

Marcellette G. Williams
Authorized Signature

Marcellette G. Williams
Print Name

Chancellor
Title
10/15/01
Date

APPROVED AS TO FORM: Division of Capital Asset Management, Office of the General Counsel

Nancy Loeb
Authorized Signature

NANCY LOEB
Print Name

DEPUTY
Associate General Counsel
Title

2/12/02
Date

EXHIBIT A

Description and Plan or Diagram of Licensed Premises

General Location of C2C Fiber Pipeline Through Licensed Properties

Segment 1 (Metropolitan State Hospital): Commencing at the Metropolitan State Hospital site at Concord Avenue in Waltham at approximately four-fifths of a mile northwest of Concord Avenue's intersection with Winter Street, the Pipeline extends due south-southwest for 4771 feet through property of the Metropolitan State Hospital until reaching Trapelo Road at a point approximately one-fifth of a mile east of Trapelo Road's intersection with Forest Street.

Segment 2 (W.E. Fernald School): From the location described at the end of Segment 1, the Pipeline extends across and along Trapelo Road and through adjacent property of the Federal Records and Archives Administration for 1385 feet until reaching the W.E. Fernald School property at 280 Trapelo Road. From that point the Pipeline extends due south-southwest across the Fernald School Property for approximately 1439 feet until intersecting with Malone Park Drive.

Segment 3 (W.E. Fernald School): From the location described at the end of Segment 2, the Pipeline crosses Malone Park Drive and continues to extend due south-southwest through property of the W.E. Fernald School for 370 feet until the Fernald School's boundary with property under the ownership of the Patriots' Trail Girl Scouts Council, Inc.

Segment 4 (W.E. Fernald School): From the location described at the end of Segment 3, the Pipeline extends due south through the property of the Patriots' Trail Girl Scouts Council, Inc. for a distance of 140 feet, and then again crosses the property of the W.E. Fernald School for a distance of 51 feet until the boundary of the W.E. Fernald School and other property of the Patriots' Trail Girl Scouts Council.

Segment 5 (Massachusetts State College Field Station): From the location described at the end of Segment 4, the Pipeline extends due south through the property of the Patriots' Trail Girl Scouts Council, Inc. for a distance of 616 feet, and then extends due southeast for 1291 feet through the property of the Massachusetts State College Field Station.

Segment 6 (W.E. Fernald School): From the location described at the end of Section 5, the Pipeline extends due southeast for a distance of 802 feet across the property of the W.E. Fernald School until intersecting with Waverly Oaks Road at approximately one-fifth of a mile east of Waverly Oaks Road's intersection with Beaver Street.

All as more fully described on the following plans, copies of which is attached hereto:

1. Fiber Placement in Existing Pipelines, dated 6/27/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of Mass. Fernald State School Showing Existing Pipeline, Waltham, MA;
2. Fiber Placement in Existing Pipelines, dated 7/11/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of Mass. State College Field Station Showing Existing Pipeline, Waltham, MA;
3. Fiber Placement in Existing Pipelines, dated 7/11/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of

Mass. Metropolitan State Hospital Grounds Showing Existing Pipeline, Waltham,
Lexington & Belmont MA;

EXHIBIT A-1

Prior Pipeline Easements

The Commonwealth of Massachusetts acting through the Department of Mental Health and by authority of Chapter 678, Acts of 1941 grants to Colonial Beacon Oil Company, a Massachusetts corporation, having an usual place of business at Boston, Suffolk County, Massachusetts, a perpetual right-of-way and easement, together with the right of ingress and egress to said land, for the purpose of laying, constructing, maintaining and operating two (2) pipe lines four (4) and six (6) inches in diameter respectively for the conveyance of petroleum and the products or by-products thereof in a location to be selected by the Grantor under and through a strip thirty feet (30') wide of the land of the Grantor situated in the City of Waltham and the Towns of Belmont and Lexington, as shown on the accompanying plan entitled "Proposed Right-of-way on Property of Commonwealth of Mass. Walter E. Fernald State School, Waltham, Mass.," "Proposed Right-of-way on Property of Commonwealth of Mass., Met. State Hospital, Waltham and Lexington, Mass." and "Proposed Right-of-way Commonwealth of Mass. Mass. State College Field Station, Waltham, Mass.", and upon the following terms and conditions: -

1. The consideration to be paid for said right-of-way and easement shall be One Dollar (\$1.) for each lineal rod of said pipe line.
2. The Department shall not be liable for any damage to said oil pipe line or the contents thereof, whether the damage be caused by negligence of the Department, its agents, servants or employees, or otherwise.
3. If the Company shall fail to make necessary repairs to said oil pipe line within twenty-four (24) hours after notice from the Department, the Department may employ other persons to make such repairs at the cost and risk of the Company and upon demand the Company shall reimburse the Department for all such costs, plus ten per cent (10%) for supervision, accounting and use of tools. Failure of the Department to make such repairs shall not release the Company from liability for injury or damage resulting therefrom.
4. The Company agrees to pay for this right-of-way and easement based on the figures shown on a final layout plan to be approved by both parties hereto and to be attached hereto, and become a part hereof.

5. The Company shall indemnify and save harmless said Commonwealth of Massachusetts and said Department from any and all claims for damages to persons or property arising out of the exercise of this right-of-way and easement, and will reimburse said Commonwealth of Massachusetts and said Department for any damage to said land or other property of said Department caused by the exercise of this right-of-way and easement.

6. No trees or shrubbery shall be cut or removed without first obtaining permission from said Department.

This right-of-way and easement shall in no way interfere with the rights of the Department to enter upon, use or care for the land nor shall the Commonwealth of Massachusetts or the said Department or its officers, agents or servants in any event be liable or held responsible for any damage or inconvenience caused thereby.

1944.

COMMONWEALTH OF MASSACHUSETTS
Department of Mental Health

by *Robert T. Robinson* Commissioner

Approved as to form:

James E. Farley
Assistant Attorney General

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Boston, Massachusetts
August 31, 1944

The Commonwealth of Massachusetts acting through the Board of Trustees of the Massachusetts State College and by authority of Chapter 678, Acts of 1941, grants to the Colonial Beacon Oil Company, a Massachusetts corporation, having an usual place of business in Boston, Suffolk County, Massachusetts, a perpetual right-of-way and easement, together with the right of ingress and egress to said land, for the purpose of laying, constructing, maintaining and operating two (2) pipelines four (4) and six (6) inches in diameter respectively for the conveyance of petroleum and the products or by-products thereof in a location to be selected by the grantee under and through a strip thirty feet (30') wide of the land of the grantor situate in the City of Waltham as shown on the accompanying plan entitled "Proposed Right-of-way on Property of the Commonwealth of Mass., Mass. State College Field Station Waltham, Mass.", and upon the following terms and conditions: -

1. The consideration to be paid for said right-of-way and easement shall be One Dollar (\$1.) for each lineal rod of said pipe line.
2. The Trustees shall not be liable for any damage to said oil pipe line or the contents thereof; whether the damage be caused by negligence of the Trustees, its agents, servants or employees, or otherwise.
3. If the Company shall fail to make necessary repairs to said oil pipe line within twenty-four (24) hours after notice from the Trustees, the Trustees may employ other persons to make such repairs at the cost and risk of the Company and upon demand the Company shall reimburse the Trustees for all such costs, plus ten per cent (10%) for supervision, accounting and use of tools. Failure of the Trustees to make such repairs shall not release the Company from liability for injury or damage resulting therefrom.
4. The Company agrees to pay for this right-of-way and easement based on the figures shown on a final layout plan to be approved by both parties hereto and to be attached hereto, and become a part hereof.
5. The Company shall indemnify and save harmless said Commonwealth of Massachusetts and said Trustees from any and all claims for damages to persons or property arising out of the exercise of this right-of-way and easement, and will reimburse said Commonwealth of Massachusetts and said Trustees for any damage to said land or other property of said Trustees caused by the exercise of this right-of-way and easement.
6. No trees or shrubbery shall be cut or removed without first obtaining permission from said Trustees.

This right-of-way and easement shall in no way interfere with the rights of the Trustees to enter upon, use or care for the land nor shall the Commonwealth of Massachusetts or the said Trustees or its officers, agents or servants in any event be liable or hold

responsible for any damage or inconvenience caused thereby.

7254

PAU)

205

1944. COMMONWEALTH OF MASSACHUSETTS

By Richard J. Brodhead Trustees
Chairman

Bertford G. Johnson

Harry Dunlap Burr

Louis A. White

Dudley M. M.

Associate

across

Trustees

Philip B. Whitmore

Lionel C. Merrill

David J. Malcolm

Katherine Caravan

Elizabeth L. W. Parker



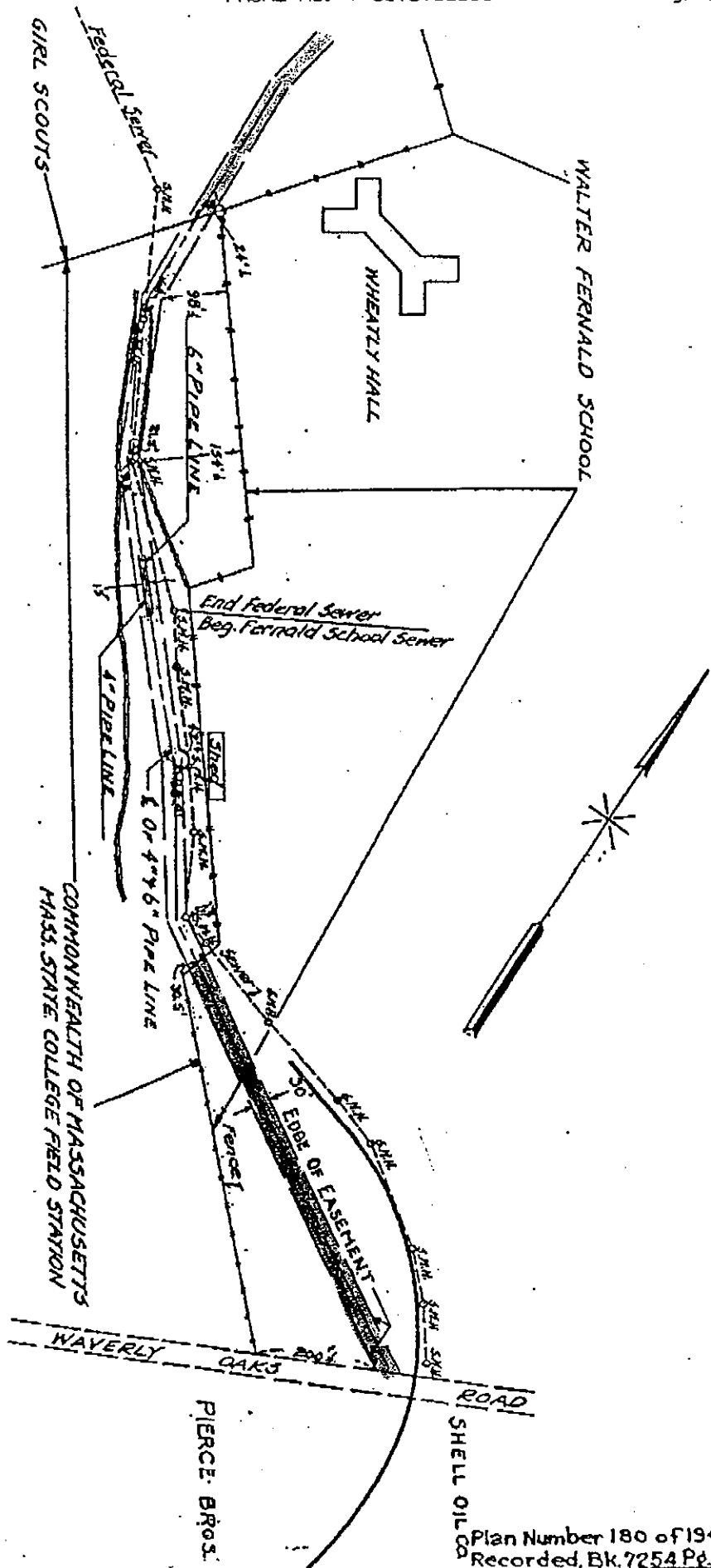
Approved as to form
James S. Farley
Assistant Attorney General

CERTIFICATE

I, James W. Burke, certify that I am the Secretary of the Board of Trustees of Massachusetts State College and that the above signatures are subscribed by Trustees duly appointed and acting; that this easement was signed for and on behalf of said Board of Trustees.

In witness whereof, I have hereunto affixed my hand and the seal of said Board of Trustees this sixth day of October, 1944.

James W. Burke
Secretary



Worcester Registry of Deeds, Ss. 112.
 Colonial Mass. 7254.
 Plan Number 180 of 1948
 Recorded in the 9th Am. Gm
 Administration of the 26
 Colonial Mass. 7254.
 Colonial Mass. 7254.

PLAN SHOWING RIGHT OF WAY ACROSS LAND IN
 WALTHAM, MASS
 COLONIAL BEACON OIL CO.
 BY ORDER OF MASS. STATE COLLEGE
 CONVEYED TO

Plan Number 180 of 1948
 Recorded, Bk. 7254 Pg. 204

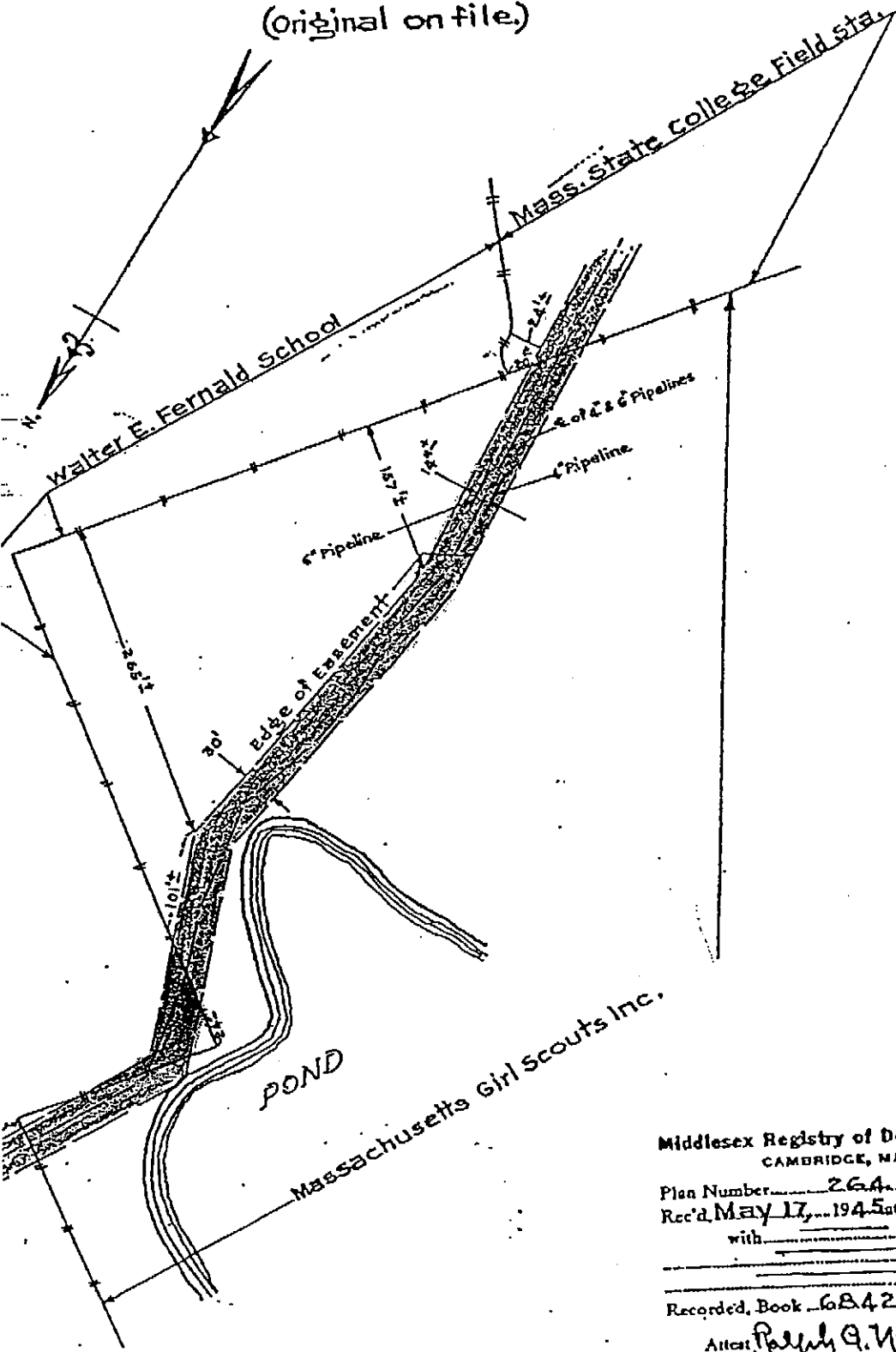
C.B.O. CO. NO. 6-6 & 4-6

PLAN SHOWING RIGHT OF WAY ACROSS LAND IN
WALTHAM, MASSACHUSETTS
CONVEYED TO
COLONIAL BEACON OIL CO.
BY MASS. GIRL SCOUTS, INC.
BY DEED DATED 5-2-44
AND RECORDED IN BOOK 6817 PAGE 354
SCALE 1" = 100 FT. DATE FEB. 14, 1945

COLONIAL BEACON OIL CO.
278 STUART STREET
BOSTON, MASS.

WG.5292

(original on file)



POND

Massachusetts Girl Scouts Inc.

Middlesex Registry of Deeds, So. Dist.
CAMBRIDGE, MASS.

Plan Number 264 of 1945
Rec'd May 17, 1945 at 12:20 P.M.
with _____

Recorded, Book 6842 Page End
Attest Ralph Q. Williams Ass't. Registrar.

Exhibit A-2

Project Managers

DIVISION OF CAPITAL ASSET MANAGEMENT AND MAINTAINTECE (DCAM)
One Ashburton Place
Boston, MA 02108
617.727.8090

Project Manager: Michael Thomas x435

DEPARTMENT OF MENTAL RETARDATION (DMR)
Fernald School Campus
200 Trapelo Road
Waltham, MA 02452
781.894.3600

Director of Plant Operations: Joanne Ciardello x2104

UNIVERSITY OF MASSACHUSETTS – AMHERST
Office of the Chancellor
Amherst, MA 01003
413.545.2903

Deputy Chancellor: John Dubach

Friday, February 22, 2002

EXHIBIT B

Schedule of Permitted Alterations and Improvements

The purpose of this License is to enable Licensee to install, maintain and operate fiber optic cable and related conduit and other communications equipment (the "Conduit System") in an existing subsurface pipeline (consisting of both a six-inch and an eight-inch diameter pipe) located within the Licensed Premises. Licensee shall be permitted to clear vegetation and excavate in and around "Handhole and Fiber Optic Placement" "Proposed Manhole Fiber Optic Placement" and "Existing Valve box Fiber Optic Placement" Locations described on the plans in Exhibit A for the purpose of enabling the placement of the Conduit System within the pipes and for the performance of periodic maintenance to the Conduit System after it is installed. Such clearing and excavation shall be done in accordance with the following conditions:

1. Prior to commencing any such clearing and excavating activities, Licensee shall provide Licensor with a schedule of its intended activities. Licensor's points of contact are as follows:

For the Metropolitan State Hospital property, Elizabeth Bent, DCAM Project Manager. She can be reached at 617-727-8090 x 416.

For the Fernald School property, Paul J. Antonellis, DMR Project Manager. He can be reached at (781) 894-3600.

For the State College Field Station Property, Lawrence Bench, University of Massachusetts. He can be reached at (617) 287-7098.

2. Licensee shall perform any such clearing and excavation activities in a manner which will minimize the disturbance to the Premises and, with respect to excavation, Licensee shall restore areas which may be excavated, to the extent possible, to their original condition prior to the termination of this License.

3. To the extent that any clearing or excavating may be required to take place within areas under the jurisdiction of the Conservation commission of the City of Waltham, Licensee shall comply with the requirements of the Conservation commission and shall provide notice to Licensor in advance of the filing of any necessary Notices of Intent or taking other similar action.

EXHIBIT C

Insurance Certificates

ACORD CERTIFICATE OF LIABILITY INSURANCE

PRODUCER (409)934-8000 FAX (409)935-1883
 Rust, Ewing, Watt & Haney, Inc.
 7900 Emmett F Lowry Expressway
 Texas City, TX 77591-2457

DATE (MM/DD/YYYY)
 12/11/2001

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

- INSURER A: Continental Casualty/CNA
- INSURER B: Valley Forge Ins. Co./CNA
- INSURER C: Transportation Ins. Co./CNA
- INSURER D: United National Ins. Co/Woodlands
- INSURER E:

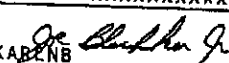
INSURED C2C Fiber, Inc; C2C Fiber of Massachusetts, LLC; C2C Fiber of Michigan, LLC; C2C Fiber Global Solutions, LLC; C2C Fiber of Florida, LLC; C2C Fiber Pipeline Holdings, LLC
 8275 El Rio #110, Houston, TX 77034

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC	TCP2052104253	10/10/2001	10/10/2002	EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/PROP AGG \$ 2,000,000
	B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	BUA2052104298	10/10/2001	10/10/2002	COMBINED SINGLE LIMIT (Ea accident) $ 1,000,000 BODILY INJURY (Per person) $ BODILY INJURY (Per accident) $ PROPERTY DAMAGE (Per accident) $ AUTO ONLY - EA ACCIDENT $ OTHER THAN AUTO ONLY: EA ACC $ AGG $
A	EXCESS LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000	CUP2052104334	10/10/2001	10/10/2002	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ \$ \$
	C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC2052104463	10/10/2001	10/10/2002	☒ W/C STATUTORY LIMITS ☐ OTHER E.L. EACH ACCIDENT $ 1,000,000 E.L. DISEASE - EA EMPLOYEE $ 1,000,000 E.L. DISEASE - POLICY LIMIT $ 1,000,000
D	OTHER Excess Umbrella	XTP66870	10/10/2001	10/10/2002	Limit \$3,000,000 Retention \$25,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
 "It is understood & agreed liability limits indicated are in full force & 100% applicable to specified project location." Blanket Additional Insured and Blanket Waiver of Subrogation applies to the Auto, General Liability and Umbrella as required by written contract. Blanket Waiver of Subrogation applies to the Worker's Compensation as required by written contract.
 This certificate is subject to the policy terms, conditions and exclusions.

CERTIFICATE HOLDER	ADDITIONAL INSURED; INSURER LETTER	CANCELLATION OR MATERIALLY MODIFIED
Commonwealth of Massachusetts <input checked="" type="checkbox"/> Office of Real Estate, Division of Capital Asset Management One Ashburton Place, Room 1505 Boston, MA 02108		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL SEND BY MAIL <u>10</u> DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, REPLY BY MAIL TO THE ISSUING COMPANY AT THE ADDRESS SHOWN ON THE POLICY REPLY BY MAIL TO THE ISSUING COMPANY AT THE ADDRESS SHOWN ON THE POLICY AUTHORIZED REPRESENTATIVE Joseph Blackshear Jr. CIC/KAREN B 

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

EXHIBIT D

Legislation entitled "An Act Authorizing the Division of Capital Asset Management and Maintenance to Convey Easements on Property in Waltham for Telecommunications Purposes"

AN ACT AUTHORIZING THE DIVISION OF CAPITAL ASSET MANAGEMENT AND MAINTENANCE TO CONVEY AN EASEMENT ON STATE PROPERTY IN WALTHAM FOR COMMUNICATIONS PURPOSES

SECTION 1. The Commissioner of the Division of Capital Asset Management and Maintenance (hereinafter the "Commissioner") is hereby authorized, notwithstanding the provisions of Sections 40E to 40I, inclusive, of Chapter 7 of the General Laws to convey to C2C Fiber of Massachusetts, LLC, and its successors and assigns, the permanent and nonexclusive easement (hereinafter the "easement") burdening certain property owned by the Commonwealth in Waltham as more particularly described in this Act. Said easement shall be used only for communications purposes and shall be subject to such conditions as are more particularly set forth in this Act and to such further terms and conditions as the Commissioner may prescribe.

The property upon which the Commissioner is hereby authorized to convey such easement is shown on the following plans (collectively, the "Easement Plans"):

1. Fiber Placement in Existing Pipelines, dated 6/27/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of Mass. Fernald State School Showing Existing Pipeline, Waltham, MA;
2. Fiber Placement in Existing Pipelines, dated 6/12/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of Mass. State College Field Station Showing Existing Pipeline, Waltham, MA;
3. Fiber Placement in Existing Pipelines, dated 7/11/01, prepared for C2C Fiber of Massachusetts, LLC by Utility Consultants, Inc. of Property Owned by Commonwealth of Mass. Metropolitan State Hospital Grounds, Waltham, Lexington & Belmont.

(hereinafter the "Easement Areas").

SECTION 2. As a condition to the effectiveness of the easement, C2C Fiber of Massachusetts, LLC shall obtain a release (including a retention of all liabilities, if any, of the current easement holder and their successors and assigns) from the current easement holder and their successors and assigns of the easement from the Commonwealth of Massachusetts acting through the Department of Mental Health to Colonial Beacon Oil Company dated 1944 and the easement from the Commonwealth of Massachusetts acting through the Board of Trustees for the Massachusetts State College to Colonial Beacon Oil Company dated August 31, 1944 and recorded with Middlesex South Registry of Deeds, in Book 7254, Page 204 (hereinafter the "Prior Easements"). The release of the Prior Easements (including a release of all liabilities, if any, of the Commonwealth relating to the Prior Easements) shall be a condition precedent to the effectiveness of any grant of the easements pursuant to this Act.

SECTION 3. The easement shall permit C2C Fiber of Massachusetts, LLC to retain the two existing pipelines described in the Prior Easements in the Easement Areas and to construct, install, maintain and operate only within those existing pipelines a communications network, including fiber optic, and other cables and related conduit and accessory communications equipment for the provision of communications services. Access to and egress from the existing pipelines shall be confined to those access points specifically identified on the Easement Plans, and the location of all access points may be subject to relocation as may be necessary in the Commissioner's discretion to protect the interest of the Commonwealth and the condition, operation, development, function, use and value of property of the Commonwealth. Access to and egress from the Easement Areas shall be confined to those areas as may be necessary in the Commissioner's discretion to protect the interests of the Commonwealth and the condition, operation, development, function, use and value of property of the Commonwealth.

SECTION 4. The Commissioner is hereby authorized, notwithstanding any general or special laws to the contrary, to retain such easements and other rights and to grant such easements and other rights, within the Easement Areas, as may be necessary in the Commissioner's discretion to protect the interests of the Commonwealth and the condition, operation, development, function, use and value of property of the Commonwealth.

SECTION 5. The consideration to be paid by C2C Fiber of Massachusetts, LLC for the easement shall be the full and fair market value of the easement, as determined by the Commissioner, based upon the use of the Easement Areas including the use of the pipelines for the communication purposes stated herein or another appropriate value of the easement as determined by the Commissioner. All values shall be based upon an independent market analysis prepared for the Division of Capital Asset Management and Maintenance and paid for by C2C Fiber of Massachusetts, LLC.

The Inspector General shall review and approve said market analysis and the review shall include a review of the methodology utilized for said market analysis. Said Inspector General shall prepare a report of his review and file the report with the Commissioner for submission to the House and Senate Committees on Ways and Means and Chairmen of the Joint Committee on State Administration within thirty days of receipt of said market analysis.

SECTION 6. The easement authorized to be conveyed under this Act shall be subject to and include the requirements set forth in this Act and the following additional terms: (a) C2C Fiber of Massachusetts, LLC shall coordinate any work performed by or on behalf of C2C Fiber of Massachusetts, LLC in the Easement Areas with and to the satisfaction of said Division of Capital Asset Management and Maintenance and any other state agencies with care and control for the Easement Areas and with any other easement holders in order to ensure that the work does not interfere with the condition, operation, development, value, use or function of such property; (b) C2C Fiber of Massachusetts, LLC shall provide to said Division of Capital Asset Management and Maintenance payment and performance bonds issued by sureties authorized to issue bonds in the Commonwealth, covering all of the work by or on behalf of C2C Fiber of Massachusetts, LLC in the Easement Areas; (c) C2C Fiber of Massachusetts, LLC shall carry casualty and liability insurance to cover loss or damage, including without limitation environmental contamination, to persons, property, the Easement Areas and the property of the

Commonwealth which may occur during construction, use, operation and maintenance of the improvements, repair and replacements in the Easement Areas, with all such insurance to be in such form, in such amounts and with such companies licensed to issue insurance policies in the Commonwealth as the Commissioner may require; (d) C2C Fiber of Massachusetts, LLC shall name the Commonwealth, the Division of Capital Asset Management and Maintenance and any other state agencies with care and control of the Easement Areas as additional insured parties on all such policies of insurance; (e) C2C Fiber of Massachusetts, LLC shall be solely liable for and shall indemnify, defend and hold harmless the Commonwealth, the Division of Capital Asset Management and Maintenance and any other state agencies with care and control of the Easement Areas with respect to all liabilities, including without limitation all liabilities, in tort, in contract, at law, and in equity, arising from (i) any design, construction and other work performed in the Easement Areas, (ii) the existence, construction, use, operation, maintenance, repair and replacements of improvements in the Easement Areas; and (iii) the exercise by C2C Fiber of Massachusetts, LLC of the easement granted under this Act; (f) C2C Fiber of Massachusetts, LLC shall pay for all labor and materials properly performed and supplied in a timely manner; (g) C2C Fiber of Massachusetts, LLC may use the Easement Areas only for communications uses; (h) the Commonwealth shall have the right to exercise self-help rights to cure any defaults of the terms and conditions of the easement by C2C Fiber of Massachusetts, LLC and to be promptly reimbursed by C2C Fiber of Massachusetts, LLC for all costs and expenses incurred by the Commonwealth in exercising such rights; and (i) such additional provisions as the Commissioner may impose.

SECTION 7. C2C Fiber of Massachusetts, LLC shall be solely responsible for all costs of the transactions, work, improvements and alterations authorized by this Act, including without limitation, the reasonable costs of all consultants, attorneys and investigations of the Division of Capital Asset Management and Maintenance in connection with said transactions; the cost of all work in the Easement Areas; the cost of all use, operation, maintenance, repair, restoration and taxes associated with the improvements or alterations made by or on behalf of C2C Fiber of Massachusetts, LLC; and the cost of all appraisals and surveys.

SECTION 8. The easement authorized by this Act may be transferred or assigned by C2C Fiber of Massachusetts, LLC, subject to the provisions of this Act and subject to any easement agreement delivered pursuant to this Act, only for the communication uses authorized by this Act. If any easement authorized by this Act is transferred to any entity including a mortgage lender for purposes other than communication purposes authorized by this Act or if any easement granted hereunder is not continuously used for the purposes authorized by this Act or if any easement granted hereunder is used for any other purposes, the easement together with all improvements located thereon shall automatically revert to the Commonwealth subject to such terms and conditions as the Commissioner may specify upon filing of a notice of such reversion in the Registry of Deeds.

SECTION 9. The obligations and provisions of this Act shall bind the C2C Fiber of Massachusetts, LLC and its successors and assigns.

SECTION 10. Nothing in this Act shall be interpreted as limiting or contradicting any provision of Chapter 309 of the Acts of 1996.

SECTION 11. This Act shall take effect upon its passage.



The Commonwealth of Massachusetts

Executive Office for Administration and Finance

Division of Capital Asset Management

One Ashburton Place

Boston, Massachusetts 02108

Tel: (617) 727-4050

Fax: (617) 727-5363

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

LESLIE KIRWAN
SECRETARY, ADMINISTRATION
& FINANCE

DAVID B. PERINI
COMMISSIONER

February 9, 2009

By Electronic and Regular Mail

Paul T. Bradshaw, Senior Counsel
Sunesys, LLC
202 Titus Ave.
Warrington, PA 18976

Re: Extension of License for Fiber Optic Cable Within an Existing Pipeline Located on State Property in Waltham, MA

Dear Mr. Bradshaw:

Reference is hereby made to the License to Occupy State-Owned Real Property, dated February 12, 2002 ("License") between the Division of Capital Asset Management and Maintenance ("Licensor") and C2C Fiber of Massachusetts, LLC ("Licensee"). The License authorizes the Licensee to install, maintain, and operate fiber optic cable and related conduit and equipment within an existing subsurface pipeline located within the Licensed Premises.

The License was assigned with the Licensor's consent to OnFiber Communications, Inc. on June 30, 2004. The License was further assigned to Sunesys of Massachusetts, LLC ("Sunesys"), the current owner of the pipeline, and further extended by various letter agreements the most recent dated January 15, 2008.

The purpose of the extension is to permit Sunesys the further opportunity to obtain approval from the Massachusetts' legislature to permit DCAM to grant Sunesys an easement to maintain the pipeline on State property for fiber optic use. A draft legislative act, prepared over five years ago, is attached as Exhibit D to the License. Please be aware that this draft will have to be carefully reviewed and updated to ensure that it satisfies the transfer requirements for so-called "Massachusetts Constitutional Amendment Article 97" land. Since a portion of the Licensed Premises is currently under the care and control of the Department of Conservation and Recreation and is being used as an open space reservation, the grant of an easement requires a two-thirds vote of each branch of the legislature.

Licensor hereby agrees to further extend the License from February 12, 2009 until February 12, 2010 in consideration of payment of a License Fee of \$20,000.00. The License fee


is based upon an appraisal dated April 1, 2001 prepared by Hopson-Pino Inc. as adjusted using the CPI All Urban.

Sunesys must provide an updated insurance certificate(s) indicating coverage as required by Article 9 of the License that will continue through February 12, 2010.

Please indicate Sunesys' assent to this assignment and extension by signing two originals of this letter. Please return the two originals and a check for the License fee made payable to the Commonwealth of Massachusetts to the attention of Nancy Loeb, Deputy General Counsel. We will forward you a fully executed original upon receipt of the License Fee and updated insurance certificate(s).

Thank you for your cooperation.

Very truly yours,



H. Peter Norstrand
Deputy Commissioner

cc: David Perini, Commissioner
Robert McGinness, General Counsel
Nancy Loeb, Deputy General Counsel
Nicholas Vontzalides, Assistant General Counsel, DCR
Mary Marshall, Esq.

AGREED TO:

LICENSEE: SUNESYS, LLC

Authorized Signature

Title

Print Name

Date

Professional Certifications/Licenses:

Certified Hazardous Materials Manager, No. 7662

Licensed Asbestos Inspector, New Hampshire, No. AI 335

Licensed Asbestos Inspector, Massachusetts, No. AI 61980

Education:

M.S., Environmental Studies, University of Massachusetts-Lowell, 1998

B.S., Chemistry, St. Lawrence University, 1975

Professional Work Experience:

Analytical Services and Assessment

Ms. Fodor served as a START team member, Principal Scientist, Lead Chemist, and Project Leader in her eight years with the Weston Solutions, Inc. (WESTON) START Region 1 contract. As the WESTON Region 1 Superfund Technical Assessment and Remediation Team (START) Lead Chemist, Ms. Fodor managed a group of START chemists, procured Contract Laboratory Program (CLP) and non-CLP analytical services, and provided analytical and Quality Assurance support for WESTON's START Region 1 Program. As part of her START analytical support responsibilities, she:

- Prepared analytical specifications for modified CLP analyses.
- Served as primary CLP point of contact for the WESTON Region 1 START contract.
- Provided oversight for the WESTON Region 1 START Performance Evaluation (PE) program.
- Supported START Program activities including increasing CLP utilization and meeting analytical subcontracting goals for Small and Women-Owned Businesses.
- Prepared analytical sections of the WESTON START Program Quality Assurance Program Plan (QAPP) and served as technical reviewer for sampling and field screening Standard Operating Procedures (SOPs) included in the START QAPP.
- Conducted new employee training orientation for Chain-of-Custody procedures, Data Quality Objective (DQO) preparation, and procedures used in sampling and analytical services.
- Conducted annual QA Training for START personnel.
- Prepared a draft QAPP for a Region 6 Remedial Investigation (RI) Site.

- Used Forms II Lite and Scribe software to prepare Chain-of-Custody documents.

Ms. Fodor gained environmental assessment experience while working for WESTON START and for a small environmental consulting firm. She was also self-employed as a Phase I consultant. Ms. Fodor's assessment experience includes the following:

- Completion of approximately 175 ASTM Phase I Environmental Site Assessment (ESA) and ASTM Transaction Screen reports. Many of the reports met the EPA All Appropriate Inquiry (AAI) standard.
- Completion of six Phase II ESAs for real estate development firms.
- Completion of five Brownfields Targeted Site Assessments (BTSA) for EPA Region 1. Activities included procurement of drilling and well installation subcontractors, multi-media sampling, and submitting samples for laboratory analysis, report preparation, and preparation of remedial cost estimates.
- Sampling and field analytical support for approximately six EPA Removal Sites, and served as a Site leader for an EPA Removal Preliminary Assessment/Site Investigation (PA/SI) Site.
- Completion of several pre-demolition asbestos surveys.
- Serving as Project Manager for several Massachusetts Contingency Plan (MCP) sites that involved soil and groundwater sampling for petroleum contaminants and remediation. Responsibilities included completion of MCP Immediate Response Action (IRA), Phase reports, and Response Action Outcome (RAO) submittals to the Massachusetts Department of Environmental Protection (MA DEP). Responsibilities also included MCP-required public notifications and submittal of Bill of Lading documents to MA DEP.
- Providing environmental oversight for Underground Storage Tank (UST) closure assessments including soil sample collection for jar headspace screening using a hand-held photoionization detector (PID).
- Completion of a Building Characterization Assessment Report for a former industrial facility in Somerville, MA. Wipe samples, potential asbestos-containing building materials (ACBM), and paint chip samples were collected for laboratory analysis. A lead

paint survey was also completed using an x-ray fluorescence (XRF) detector.

- Preparation of an Underground Injection Control (UIC) Permit for return of groundwater to a UST grave.
- Preparation of a Wetlands Notice of Intent (NOI) related to a UST removal within the buffer zone of a wetland located in Beverly, MA. Ms. Fodor presented the NOI before the Beverly Conservation Commission.

Emergency Response, Planning & Homeland Security

Ms. Fodor also has experience in contingency planning including:

- Served as START Emergency Responder in the 2000 TOP-OFF Exercise held in Portsmouth, NH and as an off-site participant to provide analytical support for the 2005 TOP-OFF Exercise held in New London, CT.
- Served as planning team member for and participant in the multi-agency 2001 EPA Preparedness for Response Exercise Program (PREP) held in Springfield, MA. Used CAMEO, ALOHA, and MARPLOT to develop air contaminant plumes for the 2001 PREP exercise.
- Prepared EPA's Sampling and Analysis Plan (SAP) for the 2004 Democratic National Convention (DNC) in Boston that focused on multi-media sampling for conventional and Weapons of Mass Destruction (WMD) parameters. Served as an analytical point of contact for the EPA/START Emergency Response Team during the 2004 DNC.
- Served as START Level A Team member and participant in numerous joint EPA/START Counter-terrorism training exercises. Exercises involved collection of field samples and air monitoring for WMD parameters including biological, chemical, and radiological hazards.
- Participated in routine environmental emergency response rotation.
- Prepared an Integrated Contingency Plan (ICP) for an active New Hampshire manufacturing facility.

Data Integrity

Ms. Fodor has 10 years of experience working in several environmental laboratories including two CLP laboratories. Her bench chemistry experience includes metals sample preparation and mercury analysis. She managed a CLP data review group at Resource Analysts, Inc. (RAI) which was responsible for verifying laboratory data and compiling complete, defensible, and validatable extended

data deliverables packages for the EPA CLP, Air Force, and other contracts. She also served as a laboratory Project Manager and coordinated large analytical projects for the laboratory. Her laboratory experience provided her with extensive understanding of organic, inorganic, and wet chemistry methods including EPA SW-846 Methods, CLP protocols, drinking water methods, and non-routine analytical services.

As an environmental consultant, Ms. Fodor validated and/or oversaw the validation of approximately 1,000 organic and inorganic CLP and non-CLP analytical data packages. She has also completed data usability assessments for samples collected for state-lead sites in Massachusetts, Texas, and Alaska. Her specific experience includes:

- Validation of CLP and non-CLP data packages in support of WESTON's START Region 1 and 6 contracts and Metcalf & Eddy's Region 1 Response Action Contract (RAC). Region 1 data deliverables were prepared in accordance with EPA Region 1 Data Validation Guidelines.
- Validation of data for samples collected during the Hurricane Katrina and Hurricane Ike emergency responses.
- Completion of Data Usability Assessment to support closure of MCP Sites.
- Completion of Data Usability Summary packages for Texas Risk Reduction Program (TRRP) and Alaska sites.

Additional Related Training:

40-hr OSHA Hazardous Waste Site Health and Safety Training (29 CFR 1910.120); 8-hr OSHA Supervisor Training Course; EPA Region 1 QAPP Training Course Asbestos Inspector Training; ICS level 100 and 200

Employment History:

<u>Company</u>	<u>Position</u>	<u>Duration</u>
TechLaw, Inc.	Senior Staff Consultant	2009 – Present
EnviroLogic, LLC	Project Manager	2007 – 2009
AECOM/ Metcalf & Eddy	Data Validation Chemist	2006 – 2009
Weston Solutions, Inc. (formerly Roy F. Weston, Inc.)	Principal Scientist/ Environmental Chemist	1997 – 2009
NEI/GTEL	Project Manager	1996 – 1997
PACE Laboratories (formerly Resource Analysts, Inc.)	Project Manager, Data Validation Supervisor	1987 - 1995

Filename: APP E_ Fodor G Resume.doc
Directory: L:\DCAM\06-Fernald Development Center\Drafts\FINAL DRAFT
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**Draft Phase I Environmental Site Assessment
Fernald Developmental Center
200 Trapelo Road
Waltham, Massachusetts**

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October 22, 2009

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- Exhibit B-3 The EDR-City Directory Abstract
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- Exhibit D-1 FDC SPCC Plan
- Exhibit D-2 Oil Pipeline Documentation

Appendix E – Qualifications of Environmental Professional

ACRONYMS/ABBREVIATIONS

Acronym/ Abbreviation	Definition
ACEC	Area of Critical Environmental Concern
APN	Assessor Parcel Number
ASTM	American Society for Testing and Materials
AST	Aboveground Storage Tank
AUL	Activity and Use Limitation
BTEX	Benzene, toluene, ethylbenzene, and xylenes
bgs	Below ground surface
BWSC	Bureau of Waste Site Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator
CORRACTs	Corrective Actions
CSA	Comprehensive Site Assessment
DCAM	Massachusetts Division of Capital Asset Management
DEQE	Department of Environmental Quality
DMR	Department of Mental Retardation
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
EPC	Exposure Point Concentrations
EPH	Extractable Petroleum Hydrocarbons
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FDC	Fernald Developmental Center
FEMA	U.S. Federal Emergency Management Agency
FINDS	Facility Index System
FUDS	Formerly Used Defense Sites
HSWA	Hazardous and Solid Waste Amendments
ICF	Intermediate Care Facility
INST	Institutional Control Site
IRA	Immediate Response Action
LAST	Leaking Aboveground Storage Tank
LNAPL	Light Non-Aqueous Phase Liquid
LQG	Large Quantity Generator
LSP	Licensed Site Professional

Acronym/ Abbreviation	Definition
LUST	Leaking Underground Storage Tank
MassDEP	Massachusetts Department of Environmental Protection
MassGIS	Massachusetts Geographic Information System
MCP	Massachusetts Contingency Plan
MCRD	Middlesex County Registry of Deeds
MLTS	Materials Licensing Tracking System
MSL	Mean Sea Level
MTBE	Methyl tert-butyl ether
MWRA	Massachusetts Water Resources Authority
NAPL	Non-aqueous Phase Liquid
NERO	Northeast Regional Office
NFRAP	No Further Remedial Action Planned
NOR	Notice of Responsibility
NPL	National Priority List
NRS	Numerical Ranking System
PAH	Polynuclear Aromatic Hydrocarbon
PCB	Polychlorinated biphenyl
PID	Photoionization detector
ppm	Parts per million
ppmv	Parts per million by volume
PRC	Property Record Card
RAM	Release Abatement Measure
RAO	Response Action Outcome
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RCRA-NonGen	RCRA Non-Generators
REC	Recognized Environmental Condition
RELEASE	Records of Emergency Release Reports
RNF	Release Notification Form
RTN	Release Tracking Number
SANDs	Sites Awaiting NPL Decision
SQG	Small Quantity Generator
SHWS	State Hazardous Waste Sites
SRM	Substantial Release Migration
SPH	Separate Phase Hydrocarbons
SWF/LF	Solid Waste Facilities/Landfill Site
SVOC	Semivolatile Organic Compound
TOV	Total Organic Vapors

Acronym/ Abbreviation	Definition
TPH	Total Petroleum Hydrocarbons
TSDf	Transportation, Storage, and Disposal Facility
UCL	Upper Concentration Limit
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound
mg/L	Milligram per liter
mg/kg	Milligrams per kilogram
mg/g	Milligrams per gram
µg/L	Micrograms per liter
µg/kg	Micrograms per kilogram
µg/g	Micrograms per gram

1.0 EXECUTIVE SUMMARY

TechLaw, Inc. (TechLaw) has performed a Phase I Environmental Site Assessment (ESA) in general accordance with the scope of work and limitations set forth by the Massachusetts Division of Capital Asset Management (DCAM) for the Fernald Developmental Center located at 200 Trapelo Road, Waltham, Massachusetts (the "Property"). On June 1, 2009, TechLaw received the Notice To Proceed authorization for this ESA (dated May 20, 2009) from DCAM for this ESA.

The Phase I ESA is designed to provide DCAM with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the property. This assessment was conducted utilizing generally accepted ESA industry standards in accordance with *ASTM Practices E1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM Practice E1527-05). The purpose of this ESA is to identify "Recognized Environmental Conditions" (RECs) in connection with the Property.

The scope of work specified by DCAM for the site assessment included: 1) interviews with people knowledgeable about the Property regarding current and former operations and uses; 2) review of records reasonably available for review from federal, state, and local sources; and 3) visual observations of site-specific and surrounding features and conditions. TechLaw was not tasked with inspection of the interior of on-site buildings.

The Property is currently developed as a 195-acre residential campus for developmentally delayed patients. The "Massachusetts School for Feeble Minded Children" was established in 1848 in South Boston, and moved to its current location in Waltham between 1888 and 1889. In 1925, the school was renamed the Walter E. Fernald State School and later was renamed the Fernald Developmental Center (FDC). The Property is improved with approximately 71 buildings designed for residential and program support and for facility infrastructure. The buildings were constructed between the mid-1800s and the early 1990s.

The Property is situated on the eastern side of Waltham, Massachusetts. The Property is bound to the northeast by Trapelo Road, an elementary school, residences, and a vacant former state mental institution building; to the southeast by residences and beyond Waverley Oaks Road by office buildings; to the southwest by a Girl Scout camp and a state-owned parcel operated by the University of Massachusetts (UMASS) Amherst Agricultural School; and to the northwest by Bentley College, a city-owned park, the F.C. Murphy Federal Records Center, and vacant land. Based upon topographic map interpretation and site observations, general groundwater flow in the region is inferred to the south toward the Charles River.

TechLaw reviewed a database report from Environmental Data Resources, Inc. (EDR) for the Property and the surrounding area. Based on review of the database report and available information, two adjacent sites were identified as potential concerns to the Property. TechLaw identified one Resource Conservation and Recovery Act (RCRA) generator on the Property. The Property is also listed on the underground storage tank (UST) database and is listed on the Massachusetts Spills (MA Spills) database. Ten past releases of petroleum on the Property have resulted in "disposal site" listings, and nine of these listings were present on the Massachusetts Reportable Release (MA RELEASE), state hazardous waste site (SHWS), and leaking underground

storage tank (LUST) databases. Although one Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), and several MA RELEASE, SHWS, LUST, leaking aboveground storage tank (LAST) sites are located within one-quarter mile of the Property, all but two were identified as either cross or downgradient of the Property or with a regulatory status of Response Action Outcome (RAO) and, therefore, not considered to be RECs.

Conclusions

TechLaw has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for the Fernald Developmental Center located at 200 Trapelo Road in Waltham, Massachusetts. Any exceptions to or deletions from this practice are described in Section 6.1 of this report. This assessment has revealed no evidence of RECs in connection with the Property, except for the following:

- Soil contaminated with No. 6 fuel oil is present in an AUL area under and south of the Power Plant.
- A 65-year old oil pipeline easement exists on the Property whose condition is unknown.
- Thermal pipe insulation present on pipes in outdoor locations was observed to be in fair to poor condition; asbestos may be present in the pipes and able to be dispersed by wind and water. Asbestos siding is also noted present on the former Volunteer Center (282 Trapelo Road) and the former Day Care (180 Trapelo Road).
- A 39-year-old, 750-gallon diesel UST located at the Shriver Center is not equipped with corrosion protection and could release diesel fuel into the ground.
- No. 2 fuel oil ASTs located in four vacant residential buildings are at least 30 years old, and the buildings are in poor condition.
- An oil plume appears to be approaching the Property from an upgradient adjacent parcel on the northwest side of the Property.
- The wetland on the southern portion of the Property may have been impacted by heavy metals due to an agricultural experiment on the adjacent parcel.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I ESA is to identify RECs in connection with the Property. An REC is defined by ASTM E1527-05 as “the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of hazardous or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.”

2.2 Scope-of-Services

The scope of work for this ESA included interviewing people knowledgeable about the Property with respect to current and former operations; reviewing records/files that were reasonably available for review from federal, state, and local sources; and conducting a site reconnaissance of the Property. This information is summarized in this report. Collected information was analyzed to determine the existence of RECs on or near the Property, as defined in ASTM Practice E1527-05. Within the limits of the scope of work and prior to the finalization of this report, every effort was made to evaluate potential hazardous environmental conditions that were identified during the site assessment.

2.2.1 Site Reconnaissance

TechLaw completed the site reconnaissance over three days between June 30 and July 13, 2009. Findings of the site reconnaissance are recorded in Section 6 of this report. Site photographs are presented in Appendix A of this report.

2.2.2 Review of Records and Database Printout

TechLaw reviewed readily available city, county, state, and federal government agency records to determine whether the site and/or adjacent properties are engaged in the storage, generation, transportation, or disposal of hazardous materials. TechLaw also reviewed records to determine the presence of on-site or nearby landfills, solid waste disposal sites, registered storage tanks, leaking registered storage tanks, and spill incident reports. Copies of U.S. Environmental Protection Agency (EPA) and state records consist of a database report which is appended to this report.

Standard historical information sources were reviewed by TechLaw to obtain site usage and included historical aerial photographs, historical U.S. Geological Survey (USGS) topographic maps, Sanborn Fire Insurance Maps, and a City Directory Abstract prepared for the Property. These resources were compiled by and obtained from Environmental Data Resources, Inc. (EDR) and are included in Appendix B.

TechLaw reviewed topographic, orthographic, geologic, hydrologic, and regulated area maps for information regarding the physical setting of the subject property. Copies of these maps are provided as Figures 1, 2, 4, 5, 6, 7, 8 and 9.

2.3 Significant Assumptions

This assessment was conducted in accordance with generally accepted industry practices and procedures within the scope of work authorized at the time and place of this study. TechLaw's observations are limited to those areas to which it had access on the subject property.

The site inspection included viewing accessible areas of the Subject Property on foot wherever possible. During the completion of this Phase I ESA, TechLaw followed the guidelines presented in ASTM E1527-05, with the exception of evaluating the building interiors. The work scope for this ESA included assessment of building exteriors and readily accessible areas on the Subject Property. TechLaw notes that other contractors have been tasked with interior assessments of Property buildings. TechLaw was not provided with access into the majority of Property buildings.

2.4 User Reliance

This report may be distributed and relied upon by DCAM, its successors and assigns. Reliance on the information and conclusions in this report by any other person or entity is not authorized without the written consent of TechLaw, Inc.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The principal address for the Property is 200 Trapelo Road, Middlesex County, Waltham, Massachusetts. According to the Waltham Assessors Office, the Property occupies two parcels with a combined area of 195.06 acres of land and improvements. The two contiguous parcels are located on the east side of the City of Waltham. The larger 163.05-acre parcel is identified as Assessor Parcel No. (APN) R045 001 0001, and is listed in the Waltham Assessors records as 190 Trapelo Road. The smaller 32.01-acre parcel is identified as APN R036 008 0001, and is listed in the Waltham Assessors records as 338 Trapelo Road. The Commonwealth of Massachusetts is listed as the owner of the two parcels. Other street addresses for the Property include 180 Trapelo Road (a former residence that was most recently occupied as a staff daycare center) and 282 Trapelo Road (a former residence that was most recently occupied as a Volunteer Center). The Site Locus Map is included as Figure 1 and a Site Plan is included as Figure 2.

The Property features frontage on the south side of Trapelo Road and the northwest side of Waverley Oaks Road, and is accessed from entrances on each of these roads. The Property abuts parcels that are located north of Beaver Street and east of Forest Street.

A legal description was not provided by DCAM for the Property and was not obtained as part of this ESA.

3.2 Site General Characteristics

The Property occupies two irregularly-shaped contiguous parcels in a hilly area of Waltham north of the Charles River. Elevations vary widely across the Property, and range from a hilltop at an elevation of 240 feet above mean sea level (MSL) near the eastern property line to a wetland area at 50 feet above MSL near the southern corner of the Property near Waverley Oaks Road. Woodlands and broad spreading lawns on the Property divide functional areas and buildings.

The Property is surrounded by a public school and a parcel (formerly occupied as a state hospital) to the north; residential neighborhoods to the northeast and southeast; a commercial area occupied by commercial buildings to the south-southeast; a Girl Scout Camp and agricultural land (including a wetland) occupied by the University of Massachusetts Amherst Agricultural School (UMASS) to the southwest; and college buildings, a city park, and the Regional Archives of the Federal Records Center to the northwest.

3.3 Current Use of the Property

The Property is currently used primarily as a residential campus by the Massachusetts Department of Mental Retardation (DMR) and operates as the Fernald Developmental Center (FDC). The Eunice Kennedy Shriver Center (Shriver Center) is also located on the FDC campus and is operated by the University of Massachusetts Medical School. (For the purposes of this ESA, the Shriver Center is included in the Property boundaries.) Other state offices that occupy portions of the FDC facility include the State Police, Tufts Dental Facility for the Handicapped, and the Department of Weights and Measures.

3.4 Description of Structures, Roads, and Other Site Improvements

The Property is improved with approximately 71 major structures along with smaller sheds, garages, and temporary structures. Concrete and asphalt paved streets, sidewalks, driveways, and parking areas are present throughout the Property. Some unpaved roads are also present in the southern portion of the Property. Older structures in the campus core tend to be of brick construction and are typically situated over basements; several of these buildings have been condemned due to their poor condition and are surrounded by locked chain-link fences. Newer buildings on the property typically consist of slab-on-grade construction with brick, masonry, or walls covered with manufactured siding.

All of the FDC's buildings are provided with potable water and sewer service by the Massachusetts Water Resources Authority (MWRA); TechLaw notes that the Property's three former residential structures adjacent to Trapelo Road have water and sewer connections to the City of Waltham which also obtains water and sewer services from the MWRA. No clarifiers or other wastewater treatment systems are present on the Property.

The FDC operates a steam plant which provides heat to a majority of the campus buildings through a system of steam and hot water pipes. Steam pipes are conveyed through an underground tunnel system across the campus and hot water pipes are also buried underground. Remaining buildings that are not connected to the steam heat system are heated using oil, propane, or natural gas.

3.5 Current Uses of Adjoining Properties

TechLaw observed the following land uses on properties adjacent to the Property:

Northeast: Areas immediately adjacent to the northeast of the Property include the following: the Phineas Lawrence Elementary School (258 Trapelo Road), Trapelo Road, and beyond Trapelo Road by undeveloped city-owned land north of Trapelo Road (APN R036 001 0002C); city-owned land occupied by a vacant "dormitory" (285 Trapelo Road, formerly part of the Metropolitan State Hospital); the Metropolitan State Hospital (475 Trapelo Road), and single family residences along Trapelo Road.

Southeast: Areas immediately adjacent to the southeast of the Property include the following: residences along Shirley Road, Shawmut Road, TipTop Terrace, Phillips Circle,

Bishop Terrace, and Waverly Oaks Road; Waverley Oaks Road; commercial buildings beyond Waverley Oaks Road occupied by a variety of offices and businesses (355, 319, 307, and 271 Waverley Oaks Road).

Southwest: Areas immediately adjacent to the southwest of the Property include the following: agricultural land (including a wetland) owned by the State of Massachusetts and operated by the University of Massachusetts Amherst (225-227 Beaver Street) and the Massachusetts Girl Scout Council (265 Beaver Street).

Northwest: Areas immediately adjacent to the northwest of the Property include the following: an undeveloped city-owned parcel (APN R035 007 0016); Bentley College dormitories (371 Forest Street); Waltham City Park and athletic fields (424 Trapelo Road); the F.C. Murphy Federal Records Center (380 Trapelo Road); and a single family residence (385 Trapelo Road).

4.0 USER PROVIDED INFORMATION

4.1 Title Records

Title records for the Property parcels were not provided by DCAM and were not obtained as part of scope of this ESA. A title search was not required for this ESA.

4.2 Property Owner and Occupant Information

According to the Waltham Assessors information, the Commonwealth of Massachusetts is the current owner of the Property. The Commonwealth of Massachusetts has operated a facility for the benefit of developmentally delayed citizens at the Property since approximately 1890.

4.3 Reason for Performing the Phase I

This Phase I ESA was requested by DCAM to identify any RECs in connection with the Property.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

Information from standard federal and state environmental record sources was provided for this ESA by EDR. Data from governmental agency lists are updated and integrated into EDR's database, which is updated as these data are released. This integrated database also contains postal service data in order to enhance address matching. The available geographic information provides assistance in identifying risk. The accuracy of the mapped locations is approximately +/-300 feet.

In some cases, location information supplied by the regulatory agencies is insufficient to allow database companies to map facility locations. These facilities are listed as “orphan sites” (i.e., unmappable sites) in the EDR report. A review of the Orphan Summary of unmappable facilities indicated that two of these facilities are within the ASTM minimum search distance from the Property. These facilities are discussed under the appropriate database heading below.

Regulatory information was reviewed from the following database sources regarding possible RECs within the ASTM minimum search distance from the Property. Specific facilities are discussed below if determined likely that a potential REC has resulted at the Property from the listed facilities. Please refer to Appendix C-1 for a complete listing.

5.1.1 Federal NPL

The National Priorities List (NPL) is the EPA database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program.

The Property is not listed as a NPL or Delisted NPL facility. No NPL or Delisted NPL sites are located within one mile of the Property.

5.1.2 Federal Resource Conservation and Recovery Act (RCRA) CORRACTS Facilities List

The EPA Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Treatment, Storage, and Disposal (TSD) database is EPA's compilation of reporting facilities that treat, store, or dispose of hazardous waste. The CORRACTS database is the EPA's list of TSD facilities subject to corrective action under RCRA.

The Property is not listed as a RCRA CORRACTS TSD facility. No RCRA CORRACTS TSD facilities are listed within one mile of the Property.

5.1.3 Federal Resource Conservation and Recovery Act (RCRA) Non-CORRACTS TSD Facilities List

The RCRA TSD database is a compilation by the EPA of reporting facilities that treat, store, or dispose of hazardous waste.

The Property is not listed as a RCRA-TSD facility. No RCRA TSD sites are listed within one-half mile of the Property.

5.1.4 Federal CERCLIS List

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances.

The Property is not listed as a CERCLIS facility. One CERCLIS site is listed within one-half mile of the Property:

- *Duffy Bros Construction Inc., 411 Waverley Oaks Rd. (MAD980916316, EDR Map ID C16)* is mapped approximately 0.088 mile from the Property and is actually located on the southeast side of Waverley Oaks Road. CERCLIS milestones include Site Discovery (1984), a Preliminary Assessment (1987), Site Inspection (1991), and Site Reassessment (2001); the CERCLIS site status is listed as "low priority for further assessment."

TechLaw obtained additional information for this CERCLIS site from the EPA website; the EPA Site Awaiting NPL Decision (SAND) summary is included in Exhibit C-2 of this report. Prior to Duffy Brothers purchase of the 27-acre site in 1973, the Pierce Brothers Oil Company (Pierce Brothers) operated greenhouses at the site which were heated with coal prior to 1920. After 1920, Pierce Brothers heated the greenhouses with waste oil obtained from various off-site sources. The waste oil was stored in aboveground storage tanks (ASTs), underground storage tanks (USTs), and a lagoon on the site. Waste oil storage reportedly ceased on the site after 1973. Extensive sampling revealed the presence of petroleum-related compounds, chlorinated volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals in soil, sediment, groundwater and surface water on the site.

The site has been redeveloped with commercial buildings and paved parking areas, and is being remediated under the Massachusetts Contingency Plan (MCP) under Release Tracking Number (RTN) 3-0000454 and is discussed further in section 5.1.8 [as a State Hazardous Waste Site (SHWS)]. Currently, Separate Phase Hydrocarbons (SPH) are collected from five recovery wells and a trench on site for off-site disposal. TechLaw could not confirm the exact boundaries of this CERCLIS site; however, the MCP "disposal site" boundary is shown on a figure included with the supplemental information for RTN 3-0000454. The western edge of the "disposal site" begins on the southeast side of Waverley Oaks Road and the majority of the "disposal site" is located between Waverley Oaks Road and a brook and wetland area further to the east. The

“disposal site” boundary comes within approximately 100 feet of the Subject Property frontage on Waverley Oaks Road. The majority of the remaining contamination at the Duffy Brothers site is located on the southeastern portion of that site which is closest to Beaver Brook. Based on topographic elevations and inferred groundwater flow direction from the Property to the south or south-southeast, contamination from the Duffy Brothers site is not likely to have an adverse impact on the Subject Property.

5.1.5 Federal CERCLIS NFRAP Sites List

The CERCLIS No Further Remedial Action Planned (NFRAP) List is a compilation of sites that the EPA has investigated and has determined that, under the CERCLA framework, the facility does not pose a threat to human health or the environment.

The Property is not listed as a CERCLIS-NFRAP facility. No CERCLIS-NFRAP sites are listed within one-half mile of the Property.

5.1.6 Federal RCRA Generator List

The RCRA program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste.

The Property is listed as a RCRA facility:

- ***Eunice Kennedy Shriver Center, 200 Trapelo Road (MAD073798720, EDR Map ID A7)*** - The Eunice Kennedy Shriver Center (Shriver Center) is located at the Trapelo Road entrance to the FDC and, up until 2001, was part of the FDC campus. For the purposes of this ESA, the Shriver Center is considered part of the FDC campus. The Shriver Center currently operates as a research and training facility under the University of Massachusetts Medical School and is listed as a RCRA Small Quantity Generator (SQG). Three waste codes are specified for this facility in the EDR Report: ignitable wastes (EPA Waste Code D001), corrosive wastes (D002), and chromium-bearing wastes (D007). The facility was cited with nine RCRA violations in 1994, and the facility came into compliance for all violations in 1996. The RCRA violations appear to be administrative in nature. TechLaw does not consider this on-site RCRA facility to have adversely impacted the Subject Property.

No RCRA facilities were identified on adjacent properties.

5.1.7 Federal Emergency Response Notification System (ERNS)

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil or hazardous substances. No ERNS sites were listed on the Property.

5.1.8 State-Listed Disposal Sites (CERCLIS equivalent, LUST, and LAST)

The Massachusetts Department of Environmental Protection (MassDEP) maintains a listing of sites where oil and/or hazardous materials were reported to be released (MA RELEASE). The EDR report also identifies databases which are a subset of the MA RELEASE database which include sites where the source is identified as a leaking

underground storage tank (LUST), leaking aboveground storage tank (LAST), or fall in the category of sites considered to be actually or potentially contaminated by hazardous wastes and/or oil and that present a possible threat to human health and the environment [i.e., State Hazardous Waste Site (SHWS)]. SHWS are considered CERCLIS-equivalent sites.

Releases of oil and hazardous materials are regulated under the MCP. The MCP specifies notification, assessment, and response actions for "disposal sites" within the Commonwealth. Upon notification to MassDEP, a reportable release is assigned a Release Tracking Number (RTN) and is tracked by MassDEP until the site achieves a condition of "no significant risk" with the goal that a "permanent solution" [i.e., either a Class A or Class B Response Action Outcome (RAO)] is achieved at all sites. If a "temporary solution" (i.e., a Class C RAO) is achieved at a site, MassDEP requires the responsible party to re-evaluate the disposal site every five years to determine whether a "permanent solution" may be achieved.

In addition, the Commonwealth of Massachusetts operates a privatized cleanup program, and private sector Licensed Site Professionals (LSPs) are responsible to conduct notification, assessment, and response activities in accordance with the MCP. Most SHWS fall in the category of "Tier II" sites which generally tend to be less contaminated sites that do not require day-to-day oversight by MassDEP personnel. Tier I sites meet specific Tier I inclusionary criteria and have Numerical Ranking System (NRS) scores greater than 350. Tier I sites tend to have elevated levels of contamination and/or greater potential for human exposure. Under the privatized cleanup program, MassDEP reserves the right to audit sites after an RAO opinion has been rendered by an LSP. Approximately 20% of sites are audited as part of MassDEP's regulatory oversight. Based on audit findings, MassDEP has the authority to reverse the LSP decision and "re-open" a site which had been deemed by the LSP to have achieved RAO status.

TechLaw notes that a single RTN may be listed under multiple databases in the EDR Report. To avoid unnecessary duplication, all sites regulated under the MCP that are listed in the MA RELEASE, LUST, LAST, and/or SHWS databases are described in the category of State-Listed Disposal Sites.

TechLaw notes that EDR considers sites with multiple RTN listings under a single Site Name to be *one* site. For example, the EDR Report may identify 51 SHWS within one mile of the Subject Property, but there actually may be 61 RTNs associated with these listings. The analysis of state sites which follows, where convenient, segregates listings by RTN unless an RTN is linked (after the fact) by MassDEP. Four state databases were evaluated as part of this ESA. The sites selected for discussion in this ESA were screened, based on the following criteria:

MA RELEASE: Six of the 66 MA RELEASE sites mapped within a one-half mile radius of the Property were identified on the Subject Property. Of the 60 remaining off-site MA RELEASE sites, 18 are located less than 0.25 mile from the Subject Property and have potential to impact the Subject Property. Six of these 18 MA RELEASE sites are not considered an environmental concern to the Subject Property based on their distance, hydraulically downgradient location, location beyond an intervening stream, and/or "RAO" compliance status; these sites include *Clematis*

Corporation (117 Beaver Street); *No Location Aid* (110 Beaver Street); *No Location Aid* (10 Clematis Avenue); *George More Facility Fmr* (110 Beaver Street); *Light Metal Platers* (70-74 Clematis Avenue); and *Industrial Property* (70-74 Clematis Avenue). The remaining 12 MA RELEASE sites are discussed below.

SHWS: Three of the 51 SHWS within one mile of the Property were identified on the Subject Property. Of the remaining 48 mapped SHWS listings, 31 SHWS are mapped more than 0.25 miles from the Subject Property boundaries and deemed not likely to have an adverse environmental impact on the Property based on their compliance status, distance, and/or downgradient location. Five of the 17 remaining SHWS mapped within a 0.25-mile radius of the Property are located hydraulically downgradient of the Subject Property and, in conjunction with their compliance status, are not considered an environmental concern to the Subject Property: *Clematis Corporation* (117 Beaver Street); *No Location Aid* (110 Beaver Street); *George More Facility Fmr* (110 Beaver Street); *Light Metal Platers* (70-74 Clematis Avenue); and *Industrial Property* (70-74 Clematis Avenue). The remaining 12 mapped SHWS located within 0.25-miles of the Subject Property are discussed below.

LUST: Five of the 13 mapped LUST facilities within 0.5 mile of the Property were identified on the Subject Property. Of the remaining eight mapped LUST sites, four are located greater than 0.25 mile from the Property and deemed not likely to have an adverse environmental impact on the Property based upon their status, distance, or downgradient locations. The four remaining mapped LUST sites which are in closer proximity to the Property are discussed below.

LAST: None of the three mapped LAST facilities within a one-half mile radius of the Property were identified on the Subject Property. Two of the three mapped LAST sites are located on Clematis Avenue which is located beyond a brook in a downgradient location and hydraulically separated from the Subject Property; therefore, any contamination present at these two LAST sites would not be likely to impact the Subject Property. The remaining LAST site is discussed below.

5.1.8.1 State-Listed Disposal Sites on the Subject Property

One RTN listing for the Property [RTN 3-0021380, Thom Building, Fernald Cener, 200 Trapello Rd (*sic*)] did not appear in the EDR report. The remaining nine RTN listings for the Property appear on the MA RELEASE, SHWS, LUST, and/or LAST databases and include:

RTN 3-0011878, Rear Gate Off Waverly Oaks Rd, 200 Trapelo Rd (EDR Map ID A2)

This site is listed in the MA RELEASE and SHWS databases, and on the MassDEP website with a status of Class A-1 RAO. A release of approximately 30 gallons of No. 6 fuel oil occurred in 1994 while filling a UST at the Power Plant. Oil impacted a paved area and the adjacent stream on the Property and, after response actions were completed, a Class A-1 RAO was achieved. This release is discussed in further detail in section 5.2.2 of this report.

RTN 3-0015121, Not reported, 200 Trapelo Rd (EDR Map ID A3)

This site is listed in the MA RELEASE and SHWS databases, and on the MassDEP website with a status of Class A-2 RAO. Approximately 35 to 40 gallons of gasoline were released in 1997 on the Property after a driver backed up into a light stanchion and inadvertently punctured the van's gasoline tank. The driver stopped at two additional locations after initially damaging the vehicle's fuel tank before the release was discovered. Response actions were completed and a Class A-2 RAO was achieved. This release is discussed in further detail in section 5.2.7 of this report.

RTN 3-0010367, Not reported, 200 Trapelo Rd (EDR Map ID A3)

This site is listed in the MA RELEASE and SHWS databases, and on the MassDEP website with a status of Class C RAO. Approximately 320 gallons of No. 6 fuel oil were released in 1993 at the Power Plant on the Subject Property after oil delivered to the UST was heated and expanded, thereby overflowing the UST. Some of the oil flowed into the adjacent stream. Response actions were completed and a Class C RAO was achieved; an activity and use limitation (AUL) was implemented as part of the RAO. This release is discussed in further detail in section 5.2.1 of this report.

RTN 3-0015442, Powerplant, 200 Trapelo Rd (EDR Map ID A5)

This site is listed in the MA RELEASE and SHWS databases, and on the MassDEP website with a status of Class A-2 RAO. A release of approximately 100 gallons of No. 6 fuel oil occurred while filling a UST at the Power Plant. Oil impacted a paved area and the adjacent stream on the Subject Property and, after response actions were completed, a Class A-2 RAO was achieved. This release is discussed in further detail in section 5.2.5 of this report.

RTN 3-0021892, Malone Park Bldg. No. 21, 200 Trapelo Rd. (EDR Map ID A1)

This site is listed in the MA RELEASE and LUST databases, and on the MassDEP website with a status of Class A-2 RAO. The EDR report indicates that a concentration of up to 200 parts per million of No. 2 fuel oil was reported from a UST near a residential building on the FDC campus in June 2002. MassDEP was notified of the heating oil release as a result of UST closure. This release is discussed in further detail in section 5.2.8 of this report.

RTN 3-0013467, Not reported, 200 Trapelo Rd. (EDR Map ID A3)

This site is listed in the MA RELEASE and LUST databases, and on the MassDEP website with a status of Class A-3 RAO. An unknown amount of No. 6 fuel oil was released in the vicinity of a concrete wall near the Power Plant on the Subject Property. The source of the oil was identified as the on-site USTs. Response actions were completed and a Class A-3 RAO was achieved which involved implementation of an AUL. This release also appears as a MA RELEASE site in the EDR report, and is discussed in further detail in section 5.2.3 of this report.

RTN 3-0021893, Malone Park Bldg. No. 23, 200 Trapelo Rd. (EDR Map ID A4)

This site is listed in the MA RELEASE and LUST databases, on the MassDEP website with a status of Class A-2 RAO. The EDR report indicates that a concentration of up to 200 parts per million of No. 2 fuel oil was reported from a UST near a residential building on the FDC campus in June 2002; the concentration units provided in the EDR report does not identify the environmental matrix (water or soil) that was reported to have been impacted.) MassDEP was notified of the heating oil release as a result of UST closure. This release is discussed in further detail in section 5.2.9 of this report.

RTN 3-0015149, Powerplant, 200 Trapelo Rd. (EDR Map ID A5)

This site is listed in the MA RELEASE and LUST databases, and on the MassDEP website with a status of Class B-1 RAO. The EDR report indicates that 250 parts per million by volume (ppmv) of gasoline was encountered in headspace during the closure of a 1,000 gallon gasoline UST at the Power Plant in 1997. An “assessment only” IRA was conducted, and a Class B-1 RAO was achieved at the site. This release is discussed in further detail in section 5.2.4 of this report.

RTN 3-0010725, Fernald State School, 200 Trapelo Rd. (EDR Map ID A8)

This site is listed in the MA RELEASE and LUST databases, and on the MassDEP website with a status of Class A-2 RAO. A release of gasoline-related compounds from gasoline USTs at the Farm and Grounds Department impacted soil and water. After response actions were completed, a Class A-2 RAO was achieved. This release is discussed in further detail in section 5.2.6 of this report.

5.1.8.2 State-Listed Disposal Sites Near the Property

Sixteen RTN listings on the MA RELEASE, SHWS, LUST, and/or LAST databases were identified in close proximity to the Subject Property and include:

RTN 3-0022303, Fmr Heating Plant South Of, 333 Forest St (EDR Map ID 45)

This site is listed in the MA RELEASE and SHWS databases, and is listed with a regulatory status of Class A-3 RAO.

A release of one pound of asbestos and 34.8 milligrams per kilogram (mg/kg) of arsenic was reported to MassDEP in 2002. This site is mapped approximately 0.25 miles west of the Subject Property and *is actually located at a higher elevation and potentially upgradient of the Subject Property*. This SHWS is presumed to be a former heating plant at the parcel adjacent to the northwest side of the Subject Property and approximately 700 feet upgradient of four residential buildings in the Intermediate Care Facility (ICF) for the Mentally Retarded off of Malone Park Drive. The federally owned parcel containing the heating plant was subdivided and redeveloped. TechLaw presumes that the heating plant site is located on land currently owned by Bentley College, although the street address suggests that it may be part of the New Jewish High School (Gann Academy) which does not directly abut the Subject Property parcel.

The EDR report indicates that an Immediate Response Action (IRA) and Release Abatement Measure (RAM) were completed at the Site, and that a Class A-3 RAO was achieved implementing an AUL. TechLaw obtained supplemental information for this Site from the MassDEP's website; this information is included in Exhibit C-13. Approximately 10,000 square feet of soil was reported to be contaminated with arsenic and asbestos, and the RAM Plan proposed capping the impacted soil with geotextile fabric and gravel. In addition, an AUL was implemented at the disposal site to protect the area from intrusive activities. Based on the non-mobile nature of the contaminants and "site closure" based on capping the impacted soil and implementation of an AUL, TechLaw does not consider this site likely to pose an environmental threat to the Subject Property.

RTN 3-0018952 & RTN 3-0003078, UTM 4694592N 318350E, 313 Waverley Oaks Rd (EDR Map ID B10)

RTN 3-0018952 is listed in the MA RELEASE and SHWS databases while RTN 3-0003078 is listed in the MA RELEASE, SHWS, LUST, and LAST databases. In the MassDEP database, the status of RTN 3-0018952 is listed as "RAONR" (RAO not required) and the status of RTN 3-0003078 is listed with a Class A-3 RAO.

According to the EDR report, this site is mapped 0.002 mile southeast of the Subject Property along Waverley Oaks Road. Based on TechLaw's review of aerial photographs and supplemental information obtained from the EDR Report and the MassDEP web site, this disposal site appears to be located southeast of the FDC Waverley Oaks Road entrance to the Subject Property and likely abuts the Subject Property beyond Waverley Oaks Road.

The EDR Report indicates that MassDEP was notified of a release of 10 gallons of petroleum and 100 gallons of water in November 1999. MassDEP assigned RTN 3-0018952 to the release, and an IRA was subsequently performed. The site did not require an RAO because it was determined that the Site was already listed under RTN 3-0003078 (which has the same street address and is listed as a fuel depot and former tank farm). The site is currently developed with an office building and parking lot. MassDEP Site Information for this "parent" site identifies the site as "Shell Product Dist Plant Fmr" and that after several remedial phases, a Class A-3 RAO was achieved for the disposal site (RTN 3-0003078) in 2004. A Class A-3 RAO indicates that a permanent solution was achieved through the use of an AUL, and that the contamination has not been reduced to background. As part of response actions under the MCP, the extent of contamination must be assessed to define the "disposal site" boundaries. Based on the groundwater flow direction to the south in this area of Waltham and site "closure" under the MCP via a Class A-3 RAO, TechLaw does not anticipate adverse environmental impacts to the Subject Property from this site.

RTN 3-0020538, UTM 4694592N 318350E, 313 Waverley Oaks Rd (EDR Map ID B10)

This site is listed in the MA RELEASE and SHWS databases, and the status listed on the MassDEP website is RAO not required.

According to the EDR report, this site is mapped 0.002 mile southeast of the Subject Property along Waverley Oaks Road. Based on TechLaw's review of aerial photographs and supplemental information obtained from the EDR Report and the MassDEP web site, this disposal site appears to be located southeast of the FDC Waverley Oaks Road entrance to the Subject Property and likely abuts the Subject Property beyond Waverley Oaks Road.

In 2001, MassDEP received notification that dibenzo(a,h)anthracene (1.9 mg/kg); benzo(a)anthracene (3.2 mg/kg); benzo(b)fluoranthene (8.8 mg/kg); total petroleum hydrocarbons (TPH) (4,700 mg/kg); barium (3,780 mg/kg); and lead (29,000 mg/kg) were present in soil at the site. The site status is listed as "RAO not required" because the site is "related to a Tier Classified Site." The Site Information on the MassDEP website does not specify which RTN the release has been linked with; however, the site name on the MassDEP website summary suggests that this RTN is associated with RTN 3-0003078. A RAM was completed at the site, but no further information was listed for the site. Based on the redevelopment of the site as office buildings and parking areas, the poor mobility of these contaminants of concern, and the site's location downgradient of the Subject Property, TechLaw does not consider this SHWS to be an environmental concern to the Subject Property.

RTN 3-0013458, Gas Station, 277 Waverley Oaks Rd (EDR Map ID 12)

This site is listed in the MA RELEASE and SHWS databases, and the status on the MassDEP website is listed as Class A-2 RAO.

According to the EDR report, this site is mapped 0.052 mile southwest of the Subject Property. Based on TechLaw's review of a 1995 aerial photograph and information from EDR and the MassDEP web site, this site appears to be located on the south side of Waverley Oaks Road and north of Beaver Street. MassDEP was notified in February 1996 of the release of 150 gallons of gasoline from a commercial gas pump, and MassDEP subsequently assigned RTN 3-0013458 to the release site. An IRA was completed in April 1996 and the site was "closed" with a Class A-2 RAO in February 1997. Based on this disposal site's downgradient location and presumed groundwater flow direction to the south, TechLaw does not consider this release of gasoline to pose an environmental threat to the Subject Property.

TechLaw notes that this site is currently addressed as 225 Waverley Oaks Road, according to a recently submitted Phase I Initial Site Investigation Report prepared for RTN 3-27761 for the Shell Branded Gasoline Station site at 225 Waverley Oaks Road.

RTN 3-0000454, Duffy Brothers Construction, 411 Waverley Oaks Rd (EDR Map ID C14)

This site is listed in the MA RELEASE and SHWS databases. The site status on the MassDEP website is listed as Class C-2 RAO.

According to the EDR report, this site is mapped 0.088 mile east-southeast of the Subject Property. Based on TechLaw's review of information obtained from EDR and the MassDEP web site, this site is located on the south side of Waverley Oaks Road and

directly abuts the residential neighborhood northwest of Waverley Oaks Road near its intersection with Parkview and Upton Roads. This residential neighborhood abuts the Subject Property to the southeast, and the disposal site boundary is approximately 100 feet from the Subject Site property line.

In 1987, MassDEP was notified of the release of an “unknown chemical of unknown type” and assigned RTN-30000454 to the release site. TechLaw reviewed a report for the site prepared by GZA GeoEnvironmental in May 2009 entitled *Phase IV As-Built Construction Report, Final Inspection Report, and Completion Statement Upland Area, 411 Waverley Oaks Road, Waltham, Massachusetts*; this report was available on the MassDEP website and included some site history and a site plan. The site is the location of a former waste oil facility which reportedly stored waste oil in “large volumes.” Drums, ASTs, and lagoons reportedly occupied the southern and downgradient portion of this site. Groundwater and the downgradient wetland area which discharges into Beaver Brook were impacted by the release of separate phase hydrocarbons (SPH). The northern portion of the site along the south side of Waverley Oaks Road is currently occupied by several large commercial buildings and parking areas and is the portion of the Site that has achieved a Class B-1 RAO which indicates that remedial actions have not been conducted because a level of “no significant risk” exists.

Various response actions have been completed at the site between 1999 and May 2009 including completion of IRA, Phase II, Phase III, Phase IV, and RAM reports. A Class B-1 partial RAO was achieved for part of the Site in 1996. The MCP status of upland areas of the site is listed as a Class C RAO Operation, Maintenance, and Monitoring because groundwater on this portion of the site is being monitored as part of the implementation of a groundwater treatment system. TechLaw considers contamination at this disposal site to pose low environmental risk to the Subject Property based on its downgradient or cross-gradient location, presumed groundwater flow to the south and/or south-southeast, and surface water flow to a brook which impacts areas well downgradient of the Subject Property.

RTN 3-0010717, Rear Area of Site, 411 Waverley Oaks Road (EDR Map ID C15)

This site is listed in the MA RELEASE and SHWS databases. The status of the site on the MassDEP website is listed as Class A-2 RAO.

According to the EDR report, this site is mapped 0.088 mile east-southeast of the Subject Property. Based on TechLaw’s review of information obtained from EDR and the MassDEP web site, this site is co-located with the Duffy Brother Construction site on the south side of Waverley Oaks Road. 411 Waverly Oaks Road directly abuts the residential neighborhood northwest of Waverley Oaks Road near its intersection with Parkview and Upton Roads; this residential neighborhood abuts the Subject Property to the southeast. The site name suggests that the area of contamination is likely on the east (rear) area of the parcel.

In 1994, MassDEP was notified of the release of a total of 40 gallons of water and an unknown concentration of PCBs from a tanker to a water body at the site. A wetland is located on the southeasterly portion of the 411 Waverley Oaks property. MassDEP assigned RTN 3-0010717 to the release and provided oral approval for implementation of

an IRA. A Class A-2 RAO was achieved at the site in May 1994 which indicates that a permanent solution was achieved but that contamination was not reduced to background levels. TechLaw considers PCB contamination at this disposal site to pose little to no environmental risk to the Subject Property based on its RAO status, the site's downgradient or cross-gradient location relative to the Subject Property, presumed regional groundwater flow to the south, and surface water flow to a brook which impacts areas well downgradient of the Subject Property.

RTN 3-0025816, Rear of Property, 411 Waverley Oaks Road (EDR Map ID C19)

This site is listed in the MA RELEASE and SHWS databases. The site status listed on the MassDEP website is RAO not required.

According to the EDR report, this site is mapped 0.088 mile east-southeast of the Subject Property. Based on TechLaw's review of information obtained from EDR and the MassDEP web site, this site is co-located with the Duffy Brother Construction site on the south side of Waverley Oaks Road. 411 Waverly Oaks Road directly abuts the residential neighborhood northwest of Waverley Oaks Road near its intersection with Parkview and Upton Roads; this residential neighborhood abuts the Subject Property to the southeast. The site name suggests that the area of contamination is likely on the east (rear) area of the parcel.

In 2006, MassDEP was notified of a release of water to a water body at the site but no other chemical constituents were reported. A wetland is located on the southern portion of the 411 Waverley Oaks property. MassDEP assigned RTN 3-0025816 to the release. An IRA was completed at the site approximately two months later. The EDR report indicates that the primary RTN for this site is 3-0000454 (refer to the discussion of *Duffy Brothers Construction* site above), and that an RAO is not required. The RTN was subsequently closed since response actions were being completed as part of 3-0000454. Based on this information, TechLaw does not consider this release to pose a threat to the Subject Property based on the site's downgradient and/or cross-gradient location relative to the Subject Property, presumed groundwater flow to the south or south-southeast, and surface water flow to a brook which impacts areas downgradient of the Subject Property.

RTN 3-0017581, Waltham Federal Center, 424 Trapelo Road (EDR Map ID D20)

This site is listed in the MA RELEASE and SHWS databases. The site status listed on the MassDEP website is Class C1 RAO.

According to the EDR report, this site is mapped 0.161 mile northwest of the Subject Property. Based on TechLaw's review of information obtained from EDR and the MassDEP web site, this site is located south of Trapelo Road, east of Forest Street, and abuts the west side of the Subject Property. TechLaw notes that MassDEP records the site name for RTN 3-0017581 as "Murphy Federal Ctr Boiler Plant."

In 1998, MassDEP was notified of a release of 0.5 inches of No. 4 fuel oil and 4 inches of non-aqueous phase liquids (NAPL). The EDR report indicates that, in 1999, an RAO was not required since the site was "related to" a Tier Classified site. (TechLaw presumes that RTN 3-0017581 is linked to LUST site RTN 3-0006013). However, in 2001, an IRA

completion statement was received by MassDEP and the current compliance status for this release is listed as a Class C1 RAO. A Class C RAO indicates that a temporary solution has been achieved since the site does not present a “substantial hazard” but the site has not yet achieved a condition of “no significant risk.”

Based on information obtained by TechLaw for LUST site 3-0006013, a release of petroleum was reported to MassDEP in 1994. and MassDEP received Phase I, Phase II, and Phase III Completion Statements between 1998 and 2001. This release was classified as a Tier II site, and a Class C RAO was achieved in June 2009. TechLaw obtained a copy of report from the MassDEP website entitled *Letter Report of Post Response Action Outcome Monitoring – Year Seven, Event One, April 2009 Ground-Water Gauging, Murphy Federal Center, Former Boiler Plant Underground Storage Tanks, 424 Trapelo Road, Waltham, MA 02154, MA DEP RTN 3-6013*. This report was prepared by Advent Environmental Inc. (ADVENT), and is included in Exhibit C-13 of this report. TechLaw notes that the report includes a site plan which shows a plume depicting the approximate extent of “separate phase oil” which was released from the former USTs at the boiler plant at that site. The leading edge of the separate phase oil plume is shown to be within 25 feet of the Subject Property and progressing down the hillside slope toward the Subject Property. Based on this information, TechLaw considers this release to be an off-site REC that has potential to impact the Property.

RTN 3-0018887, FC Murphy Federal Center, 424 Trapelo Road (EDR Map ID D21)

This site is listed in the MA RELEASE and SHWS databases. The site status is listed on the MassDEP website as Class A-2 RAO.

According to the EDR report, this site is mapped 0.161 mile northwest of the Subject Property. Based on TechLaw’s review of information obtained from EDR and the MassDEP web site, this site is located on the south side of Trapelo Road and abuts the northwest corner of the Subject Property.

In 1999, MassDEP was notified of a release of an unknown concentration of 2-methylnaphthalene, benzo(a)anthracene [2.1 parts per million (ppm)], and benzo(a)pyrene (2 ppm). A RAM was completed in 2001 and a Class A-2 RAO was achieved for the site in 2001 using a MCP Method 3 Risk Assessment. Based upon the information reviewed by TechLaw, the release contains relatively low concentrations of polynuclear aromatic hydrocarbons (PAHs). PAHs preferentially adsorb to soil and do not travel significant distances in groundwater. Based on the site status as “RAO” and the low mobility characteristics of the contaminants, TechLaw does not consider this release to be an environmental threat to the Subject Property.

RTN 3-0006013, Waltham Federal Center, 424 Trapelo Road (EDR Map ID D20)

This site is listed in the MA RELEASE and LUST databases. The site status is listed on the MassDEP website as Class C-1 RAO.

According to the EDR report, this site is mapped 0.161 mile northwest of the Subject Property. Based on TechLaw’s review of information obtained from EDR, the MassDEP web site, and the Waltham GIS website, this LUST site is located south of Trapelo Road,

east of Forest Street, and abuts the west side of the Subject Property. TechLaw notes that MassDEP records the site name for RTN 3-0006013 as “Murphy Federal Center - Boiler Plant UST.” This site is connected with SHWS identified as 3-0017581 (discussed previously). The site is listed with a Class C RAO, which indicates that a temporary solution has been achieved since the site does not present a “substantial hazard” but has not yet achieved a condition of “no significant risk.”

Based on information obtained by TechLaw for LUST site 3-0006013, a release of petroleum was reported to MassDEP in 1994. MassDEP received Phase I, Phase II, and Phase III Completion Statements between 1998 and 2001. This release was classified as a Tier II site and a Class C RAO was submitted in June 2009. TechLaw obtained a copy of report from the MassDEP website entitled *Letter Report of Post Response Action Outcome Monitoring – Year Seven, Event One, April 2009 Ground-Water Gauging, Murphy Federal Center, Former Boiler Plant Underground Storage Tanks, 424 Trapelo Road, Waltham, MA 02154, MA DEP RTN 3-6013*. The report was prepared by Advent Environmental Inc. (ADVENT), and is included in Exhibit C-13 of this report. TechLaw notes that the report includes a site plan which shows a plume showing the approximate extent of “separate phase oil” which was released from the former USTs at the boiler plant at that site. The leading edge of the separate phase oil plume is shown to be within 25 feet of the Subject Property and progressing down the hillside slope toward the Subject Property. Based on this information, TechLaw considers this release an off-site REC that has potential to impact the Subject Site.

RTN 3-0015749, No Location Aid, 426 Trapelo Road (EDR Map ID D23)

This site is listed in the MA RELEASE and SHWS databases. The site status is listed on the MassDEP website as Class A-1 RAO.

According to the EDR report, this site is mapped 0.165 mile northwest of the Subject Property. Based on TechLaw’s review of information obtained from EDR and the MassDEP web site, this site is located on Trapelo Road. The exact location of the site could not be determined although it appears that the site is likely to be associated with the Waltham Federal Center at 424 Trapelo Road which is adjacent to the northwest corner of the Subject Property.

In 1997, MassDEP was notified of a release of 10 gallons of diesel fuel and 12 gallons of diesel fuel which is assumed by TechLaw to have occurred from a motor vehicle incident at the site. Immediate approval of an IRA was provided by MassDEP the same day as the release, and a Class A-1 RAO was submitted for the site two months later. Since the release was cleaned up to background levels, TechLaw does not consider this release to pose an environmental threat to the Subject Property.

RTN 3-0027761, Shell Service Station #137873, 225 Waverley Oaks Road (EDR Map ID 24)

This site is listed in the MA RELEASE and SHWS databases. According to the MassDEP website, a Phase II Scope of Work was submitted and MCP response actions are continuing on the site.

According to the EDR report, this site is mapped 0.169 mile southwest of the Subject Property. Based on TechLaw's review of information obtained from EDR and the MassDEP web site, this site is located north of Beaver Street and east of Waverley Oaks Road and is the Shell Station at the intersection of these two roads.

MassDEP was notified of a release of aliphatic and aromatic petroleum hydrocarbons and methyl tert-butylether (MTBE) associated with a release of gasoline from an unknown source at the site in June 2008. A Phase I Initial Site Investigation report was submitted to MassDEP by Sovereign Consulting, Inc. (SCI) in May 2009. TechLaw reviewed the SCI Phase I report and notes that, based upon Figure 3 in that report, groundwater flow direction across this disposal site is to the south-southeast. Since the site is downgradient of the Subject Property and groundwater flows away from the Subject Property, TechLaw does not consider this site to pose an environmental threat to the Subject Property.

RTN 3-0028049, University of Massachusetts, 225-227 Beaver Street (EDR Map ID 39)

This site is listed in the MA RELEASE and SHWS databases. According to the MassDEP website, a Release Notification has been made by the responsible party and MCP response actions are continuing on the site.

According to the EDR report, this site is mapped 0.209 mile southwest of the Subject Property. TechLaw reviewed information obtained from EDR, the Waltham Assessors office, and the MassDEP web site. This site actually abuts the Subject Property to the south, and is shown as Waltham Assessor Parcel ID R054 001 0001 which is owned by the State of Massachusetts.

MassDEP was notified of a release of cadmium (9.1 mg/kg), chromium (37.5 mg/kg), and lead (1,520 mg/kg) in October 2008 at a facility operated by the University of Massachusetts. A Notice of Responsibility (NOR) was issued to the University of Massachusetts (Amherst) in November 2008. No additional information was found on the MassDEP website for this RTN. However, TechLaw contacted Mr. Ethan Gould [MassDEP Northeast Regional Office (NERO)] and obtained copies of the Release Notification Forms (RNF) for the release. Mr. Gould also noted that a RAM Plan for the release at 240 Beaver Street (RTN 3-0028050) was available for download from the MassDEP website. After reviewing the RNF forms and RAM Plan, TechLaw contacted Ms. Theresa Bechta, Assistant Director for Environmental and Hazardous Materials Management at UMASS Amherst for additional information. Copies of the RNF forms for RTN 3-0028048, 3-0028049, and 3-0028050 and RAM Plan report are included in Exhibit C-13.

According to these information sources, a wetland area identified as "Parcel 2" was used as part of the Phoenix Project, which was a joint research project conducted by EPA, MassDEP [previously known as the Massachusetts Department of Environmental Quality and Engineering (DEQE)], and the city of Waltham in 1978. Fly ash containing heavy metals was spread over the wetland area to assess its impact on growth of vegetation. According to Ms. Bechta, U-MASS has "plenty of records" that demonstrate that heavy metals contamination is not migrating, that it has good vegetation covering the contaminants, and that groundwater in the wetlands has not been adversely impacted with elevated levels of dissolved metals. She also indicated that U-MASS is working with

MassDEP and the Waltham Conservation Commission to isolate the wetland and place an AUL on the parcel. Heavy metals have an affinity for adsorbing to soil or solid particles and, as such, tend not to be highly mobile in the environment unless the soil is transported by mechanisms such as air or water.

This wetland disposal site is on the parcel south of the Property and its exact location and the extent of contamination has not been fully defined by ECS, according to Dr. Bruce Tease, the LSP of record. Although the Property is divided from the UMASS parcel by a chain-link fence, it is not known how and where fly ash was applied to the UMASS parcel and whether heavy metals contamination may have been mobilized and deposited on the Subject Property via wind or water (flooding). Based on the limited amount of information obtained from Ms. Bechta and ECS, the contamination on this southwesterly adjacent parcel may have had an impact on the southern portion of the Subject Property.

RTN 3-28048, U-MASS Waltham, 240 Beaver Street (EDR Map ID J41)

This site is listed in the MA RELEASE and SHWS databases. According to the MassDEP website, a Release Notification has been made by the responsible party and MCP response actions are continuing on the site.

According to the EDR report, this site is mapped 0.219 miles southwest of the Subject Property. TechLaw reviewed information obtained from EDR, the Waltham Assessors office, and the MassDEP web site. This site is located on the south side of Beaver Street, and is shown as Waltham Assessor Parcel ID R053 003 0001 which is owned by the State of Massachusetts and operated by the University of Massachusetts (UMASS) Amherst Agricultural School.

MassDEP was notified of a release of petroleum constituents including C11-C22 aromatic petroleum hydrocarbons (1,510 mg/kg) and C9-C18 aliphatic petroleum hydrocarbons (5.5 mg/L in groundwater and 3,150 mg/kg in soil) in October 2008 at the facility. A NOR was issued to UMASS Amherst in November 2008. According to a RAM Plan prepared by consulting firm ECS for RTN 3-0028050, this petroleum release was associated with the boiler house located on the parcel south of Beaver Street.

Based on the site's distance and downgradient location relative to the Subject Property, and regional groundwater flow in a generally southerly direction, this site is not considered an environmental concern to the Subject Property.

RTN 3-0028050, U-MASS Waltham, 240 Beaver Street (EDR Map ID 39)

This site is listed in the MA RELEASE and SHWS databases. According to the MassDEP website, a Release Notification has been made by the responsible party and MCP response actions are continuing on the site.

According to the EDR report, this site is mapped 0.219 miles southwest of the Subject Property. TechLaw reviewed information obtained from EDR, the Waltham Assessors office, and the MassDEP web site. This site is located on the south side of Beaver Street, and is shown as Waltham Assessor Parcel ID R053 003 0001 which is owned by the State of Massachusetts and operated by the UMASS Amherst Agricultural School.

MassDEP was notified of a release of cadmium (40.9 mg/kg), chromium (92.8 mg/kg), lead 3,770 mg/kg), and arsenic (23.2 mg/kg) in October 2008 at the facility operated by the University of Massachusetts. A NOR was issued to the University of Massachusetts (Amherst) in November 2008. Information related to the heavy metals release was presented in the RAM Plan downloaded from the MassDEP website and provided in a conversation with Ms. Theresa Bechta, Assistant Director for Environmental and Hazardous Materials Management at U-Mass Amherst. A copy of the RNF form for RTN 3-0028050 and the RAM Plan report are included in Exhibit C-13.

According to these information sources, an upland area identified as “Parcel 1” was used during the Phoenix Project (a joint research project conducted by EPA, DEQE, and the city of Waltham in 1978) to assess the impact of spreading of fly ash containing heavy metals on growth of vegetation. According to Ms. Bechta, the soil impacted by heavy metals on Parcel 1 was limited to the upper soil layer and was being remediated (via excavation from the site). The RAM Plan asserted that groundwater impacts by heavy metals were unlikely.

This site is located at a lower elevation and is hydraulically downgradient of the Subject Property, and groundwater flow direction in the region is generally southerly (away from the Property and toward this site). Based on this information and its distance from Subject Property, this site is not considered an environmental threat to the Subject Property.

RTN 3-0015883, U-MASS Waltham, 240 Beaver Street (EDR Map ID J41)

This site is listed in the MA RELEASE and LUST databases. The site status listed on the MassDEP website is Class A-2 RAO.

According to the EDR report, this site is mapped 0.219 miles southwest of the Subject Property. TechLaw reviewed information obtained from EDR, the Waltham Assessors office, and the MassDEP web site. This site is located on the south side of Beaver Street, and is shown as Waltham Assessor Parcel ID R053 003 0001 which is owned by the State of Massachusetts and operated by the University of Massachusetts Agricultural School.

MassDEP was notified of a release of 93 gallons of gasoline and a 139 ppmv gasoline headspace reading in January 1998 at a facility operated by the UMASS Amherst Agricultural Center. An IRA and Phase I were completed, and the site was classified as a Tier II site. MassDEP received the RAO statement in 2001 for a Class A-2 RAO which indicates that a permanent solution was achieved but that contamination was not reduced to background. Based on the parcel's distance and downgradient location relative to the Subject Property and groundwater flow generally in a southerly direction, this site is not considered an environmental concern to the Subject Property.

5.1.8.3 State-Listed Disposal Sites on the Orphan List

TechLaw identified two “Orphan” sites within the applicable ASTM radius of the Subject Property, but neither site is in close proximity to the Subject Property and TechLaw does not expect any adverse impact to the Subject Property based on the distance, downgradient, and/or crossgradient locations of these two sites:

- **RTN 3-0019560, Fitzgerald School, Beal Rd** - This MA RELEASE/LUST site is located at 140 Beal Road approximately 0.33 miles south of the Subject Property beyond Beaver Street, a set of railroad tracks, and Clematis Brook. According to the EDR Facility Details Report, a release of No.2 fuel oil occurred from a UST in May 2000 at the school. A Class A-2 RAO was achieved in July 2000, indicating that a permanent solution was achieved but that contamination was not reduced to background.
- **RTN 3-0023111, No Location Aid, Bishop Forest Rd** – This MA RELEASE/SHWS site is located somewhere along Bishops Forest Drive between 2,500 feet and one mile west-northwest of the Subject Property. According to the EDR Facility Details Report, a release of 25 gallons of No. 2 fuel oil impacted a roadway. A Class A-1 RAO was achieved for the site, indicating that contamination was reduced to background.

5.1.9 State Solid Waste/Landfill Facilities (SWLF)

A database of SWLF is prepared by MassDEP. The Property is not listed as a SWLF facility. No SWLF facilities are listed within one-half mile of the Property.

5.1.10 State Underground Storage Tank List (UST)

The Massachusetts Department of Fire Services Office of Public Safety compiles a list of UST locations.

The Property is listed as an UST facility. Ten USTs were removed from the Walter E. Fernald Developmental Center and no active USTs appear on EDR's database. The locations and removal dates for the ten removed USTs were not provided in the EDR report. According to the EDR report, the tank volumes and products stored in the removed USTs are tabulated below:

**Table 5-1
USTs Removed from the Fernald Developmental Center**

Tank ID No.	Volume (gallons)	Product Stored	Tank Construction Type
1	4,000	Gasoline	Steel
2	4,000	Gasoline	Steel
3	750	Diesel	Steel
4	550	Diesel	Steel
5	1,500	Diesel	Reinforced Steel
6	1,000	Diesel	Reinforced Steel
7	1,000	Diesel	Reinforced Steel
8	500	Gasoline	Steel
9	1,000	Diesel	Steel
10	1,000	Gasoline	Steel

TechLaw notes that the existing USTs, including the two USTs at the Power Plant, do not appear on the table above.

One registered UST facility is listed adjacent to the Property:

- **General Services Administration, 424 Trapelo Road (Facility ID 40051)** - Three removed USTs are listed for the facility which is formally known as the Frederick C. Murphy Federal Center. A 2,000-gallon gasoline UST, a 2,000-gallon diesel UST, and a 550 gallon diesel UST were removed from the facility. No active registered USTs appear in the EDR database report for this facility.

5.1.11 State Institutional Control/Engineering Control Registries

The MassDEP compiles a list of Institutional Control and Engineering Controls.

The Property is listed as having an Institutional Control or Engineering Control. An AUL for an 0.4-acre parcel was implemented at the Site in association with the closure of a No. 6 fuel oil release at the Power Plant (RTN 3-0013467). This AUL is discussed further in section 5.2.3.5 of this report.

5.1.12 State Spills Listing

The MassDEP compiled a list of Spills sites. Four MA Spills sites are identified for the 200 Trapelo Road address:

- **Spill ID N80-5148** – On November 30, 1980, a release of 200 gallons of No. 6 fuel oil was reported. The case was subsequently closed.
- **Spill ID N86-0944** – On September 29, 1986, a leak of gasoline was reported from a UST. The case was subsequently closed.
- **Spill ID N92-0350** – On March 16, 1992, contaminated soil was reported from an unknown source. The case was subsequently closed.
- **Spill ID N92-0797** – On June 24, 1992, a release of waste oil was reported from a drum that was dumped on the FDC property. The case was subsequently closed.

No further information was provided in the EDR report related to these releases.

5.1.13 Municipal File Review Findings

TechLaw conducted a records review at the City of Waltham municipal offices for information related to the Property. Copies of pertinent records are included in Exhibit C-14.

5.1.13.1 Assessors Office

TechLaw reviewed historic Assessors Property Record Cards (PRCs) dated 1981. The deed reference for APN R045 001 0001 (the 163.049 acre parcel) was identified as located in Middlesex County Registry of Deeds (MCRD) Book 5600, Page 550 with a date of October 22, 1931. Two PRCs were found for APN R036 008 0001 (the 32.01 acre parcel) which indicate that 282 Trapelo Road was conveyed to the Commonwealth of Massachusetts on August 17, 1931 (MCRD Book 5584, Page 383) and 338 Trapelo Road was conveyed to the Commonwealth of Massachusetts on May 22, 1930 (MCRD Book 5463, Page 286).

In addition, copies of several Assessors ownership cards were reviewed which indicated incremental land takings and acquisitions by the Commonwealth dating back to the late 1880s.

5.1.13.2 Engineering Department

The Waltham Engineering Department had no records for water and sewer lines for most of the Property buildings except for water lines to the residence at 338 Trapelo Road (water supply only) and the residence at 282 Trapelo Road (water and sewer lines). According to the Engineering Department, the city does not maintain records for the majority of FDC buildings since it is a state property. The Engineering Department’s Billing Clerk, however, noted that city records show inactive water and sewer connections for 180, 282, and 338 Trapelo Road.

5.1.13.3 Health Department

The Waltham Health Department provided TechLaw with a copy of a Public Involvement Notification Letter related to RTN 3-21892 (Malone Park Building No. 21), RTN 3-21893 (Malone Park Building No. 23), and RTN 3-13467 (The Fernald Center Power Plant, which includes a copy of the recorded AUL).

5.1.13.4 Fire Prevention Bureau

TechLaw provided a “21E” request to the Waltham Fire Prevention Bureau on June 8, 2009. A response was received on July 17, 2009. The Waltham Fire Prevention Bureau provided records for two USTs installed at the Property:

**Table 5-2
Waltham Fire Prevention Records for USTs Installed at 200 Trapelo Road**

No. of Tanks	Volume (Gals)	Product	Date Installed	Comments	Presumed Location
1	20,000	No. 6	11/22/1986?	“Installed and buried before inspection”	Power Plant, west side
1	20,000	No. 6	11/22/1986?	“Installed and buried before inspection”	Power Plant, west side

UNK – Unknown

The installation dates for the two 20,000-gallon USTs above (which are presumed to be the replacement tanks for the three No. 6 fuel oil USTs removed in October 1996) appear to be incorrect. The Waltham Fire Prevention Bureau also provided TechLaw with records for seven ASTs installed at the Property:

**Table 5-3
Waltham Fire Prevention Records for ASTs Installed at 200 Trapelo Road**

No. of Tanks	Volume (Gals)	Product	Date Installed	Comments	Presumed Location
4	330	No. 2	6/20/2002	“For htg”	Malone Park residences
1	275	UNK	10/2/2001	“For htg”	Unknown

No. of Tanks	Volume (Gals)	Product	Date Installed	Comments	Presumed Location
2	275	UNK	4/15/1998	“For htg”	Unknown

UNK – Unknown

In addition, seventeen USTs were documented as having been removed from the Property by the Waltham Fire Prevention Bureau. These USTs include:

**Table 5-4
Waltham Fire Prevention Records for USTs Removed from 200 Trapelo Road**

No. of Tanks	Volume (Gals)	Product	Date Removed	Comments	Presumed Location
1	22,000	No. 6	10/17/1996	“Oil in ground. DEP notified”	Power Plant, west side
1	25,000	No. 6	10/17/1996	“Oil in ground. DEP notified”	Power Plant, west side
1	29,000	No. 6	10/17/1996	“Oil in ground. DEP notified”	Power Plant, west side
1	1,000	UNK	5/20/1997	“Tank ok”	Unknown
1	500	UNK	5/21/1997	“Tank ok”	Unknown
2	4,000	Gasoline	5/22/1997	None	Farm & Grounds Building
1	1,000	Gasoline	5/29/1997	“Tank appears ok”	Power Plant, northeast side
1	1,000	UNK	9/16/1997	“Clean Appearance”	Unknown
1	750	UNK	10/30/1998	“Tank & hole ok”	Unknown
1	1,500	UNK	4/27/2001	“Tank & site appear ok”	Unknown
1	1,000	UNK	4/27/2001	“Tank & site appear ok”	Unknown
1	500	UNK	4/27/2001	“Tank & site appear ok”	Unknown
4	500	No. 2	6/27/2002	“3-tank & hole appear clean. 1 had oil on exterior bottom of tank. DEP notified.”	Malone Park residential buildings

UNK - Unknown

The EDR report indicated that ten USTs had been removed from the Property. TechLaw concludes that limited amount of information provided by the Waltham Fire Prevention Bureau is not sufficiently detailed to confirm the location and number of USTs and ASTs historically present on the Property or the location and number of USTs and ASTs currently in use at the Property. The data provided above does not correlate well with the UST and AST information in the FDC SPCC Plan.

5.2 Massachusetts DEP File Review

As part of this ESA, TechLaw completed a file review at MassDEP's NERO. Per the recommendation of DCAM personnel, copies of only the most pertinent MCP reports were obtained for each of the RTNs associated with FDC. Copies of these reports and the MassDEP Site Information summary are included in Appendix 8. To be consistent with the MassDEP web site, the Site Name associated with each RTN below was obtained from the online MassDEP Site Information summary.

Of the ten releases on record for FDC, five RTNs are associated with the Power Plant building and include RTN 3-0010367, RTN 3-0011878, RTN 3-0013467, RTN 3-0015149, and RTN 3-0015442 which are described in further detail in sections 5.2.1 through 5.2.5. The remaining RTNs are summarized in sections 5.2.6 through 5.2.10 and are associated with the Farm & Grounds building (RTN 3-10725); the Thom Building (RTN 3-0021380); Malone Park Building No. 21 (RTN 3-0021892); Malone Park Building No. 23 (RTN 3-0021893); and several buildings and roadways (RTN 3-0015121). A permanent solution [(i.e., Response Action Outcome (RAO))] has been achieved for all ten releases; only one of the sites involved the implementation of an AUL.

5.2.1 RTN 3-0010367, Within Complex on Chapel St @ Power Plant

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-4. This release has a current status of Class C RAO and includes implementation of an AUL.

5.2.1.1 Phase I Site Investigation

According to the Phase I Site Investigation completed on July 11, 1995 by Lord Associates, Inc. (LAI), a release of No. 6 fuel oil occurred on December 29, 1993 after a UST on the west side of the Power Plant was filled. The release was attributed to oil expanding upon heating, and No. 6 fuel oil overflowed from the UST spill box to the ground surface. Some of the oil flowed over the nearby concrete retaining wall into the adjacent brook, and free phase oil and oil-stained debris was observed in the brook as far as 300 feet south and downgradient of the Power Plant.

Upon notification, MassDEP provided verbal approval for an IRA. Response actions included placement of sorbent boom at several locations in the brook, placement of a containment fence 150 feet downgradient of the power plant, collection of approximately 150 gallons of free phase product, and stockpiling of oil-contaminated debris (e.g., wood, soil, hay, and rocks) collected from in and around the brook. In April 1994 per the request of MassDEP, all remaining No. 6 fuel oil was removed from the fill boxes and placed into drums. When the fill boxes were steam cleaned, LAI noticed that the bottom of the fill boxes were open. In May 1994, two surface water samples were collected from upgradient and downgradient locations in the stream and analyzed for TPH and PAH

analysis; laboratory analysis indicated that no contaminants were present in the surface water samples. The LAI report recorded the size of the three No. 6 fuel oil USTs as 23,000, 25,000, and 28,000 gallons and that they had been installed at the facility in 1954.

In December 1994, LAI conducted an assessment of the extent of soil and groundwater contamination in the vicinity of the USTs as part of the MCP Phase I Initial Site Investigation. LAI advanced four soil borings to a depth ranging from 11 to 16 feet below ground surface (bgs) in the area upgradient and downgradient of the No. 6 fuel oil USTs, and completed all four borings as monitoring wells. Soil samples were collected for TPH and groundwater samples were collected for TPH and VOCs. Contamination was not detected in groundwater, but TPH was detected in two borings at concentrations of 68 and 290 mg/kg. Three surface water samples were collected from upstream and downstream locations in the adjacent stream in January 1995 and analyzed for TPH, but no contamination was detected in the surface water samples. Two composite sediment samples were collected from the stream and analyzed for TPH; sediment collected from the base of the retaining wall adjacent to the USTs contained TPH at a concentration of 966 mg/kg and a second sediment sample collected approximately 200 feet downstream of the Power Plant contained TPH at a concentration of 687 mg/kg. LAI interviewed FDC facility personnel who indicated that approximately 200 gallons of No. 6 fuel oil was released onto the ground and into the stream in November 1980.

LAI stated that, although low concentrations of TPH were present in soil and sediment samples, environmental receptors were not threatened [based upon the absence of threatened species, areas of critical environmental concern (ACEC), or fish habitats near the Power Plant] and no private or municipal water supply wells were likely to be impacted.

5.2.1.2 Linking of RTN 3-0010367 with RTN 3-0013467

TechLaw noted that it appears that RTN 3-0010367 and RTN 3-0013467 were linked in 1997 because the Phase I and Tier Classification report, the Phase III Comprehensive Site Assessment (CSA) report, and the Class C RAO statements for these two RTNs were received by MassDEP on the same day. These releases occurred in close proximity to one another. TechLaw subsequently confirmed in a telephone conversation with Mr. Christopher Coolen of the MassDEP Bureau of Waste Site Cleanup (BWSC) Permits Division that the two RTNs are connected, and the Release Log Detail in the internal MassDEP database accessed by Mr. Coolen indicates that RTN 3-0013467 is the “daughter” of RTN 3-0010367.

5.2.1.3 Phase III Remedial Action Plan (RAP) and Class C RAO

Vertex Engineering Services, Inc. (Vertex) prepared a Phase III Remedial Action Plan (RAP) and Class C RAO Statement dated June 25, 2002 which was subsequently received by MassDEP on June 28, 2002. This report was not available for TechLaw’s review in the MassDEP files; however, this report was summarized in the RAO statement

for RTN 3-0013467 which was prepared by Coneco Engineers & Scientists, Inc. (Coneco). Coneco reviewed the Phase III RAP report and summarized response activities related to either or both of these RTNs:

- December 29, 1993 – Between 150 and 300 gallons of No. 6 fuel oil were released due to a “UST failure” which resulted in impacts to the adjacent stream. MassDEP assigned RTN 3-0010367 to the release site.
- June 1994 - An IRA completion statement was submitted to MassDEP.
- 1995 - Coneco reported that LAI prepared a Phase I Site Investigation and Tier II Classification Scoresheet; TechLaw notes, however, that the MassDEP website indicates that the Phase I Completion and Tier II Classification report was received by MassDEP on April 3, 1997.
- February 20, 1996 – Another oil release was reported to MassDEP near the UST area adjacent to the Power Plant “in the vicinity of a concrete retaining wall located between the three No. 6 fuel oil USTs at the Site.” Vertex reported that this release also impacted the adjacent stream, and MassDEP subsequently assigned RTN 3-0013467 to this release. After the February 20, 1996 notification, Vertex subsequently conducted an IRA which included (1) deployment of oil absorbent pads and booms at the base of the retaining wall and in the stream, (2) removal of the three USTs between July and December 1996, and (3) removal of 1,000 cubic yards of No. 6 fuel oil impacted soil and 15,000 gallons of impacted groundwater. The USTs were reportedly installed in 1954.
- August 1998 – Vertex completed a Phase II CSA report and reported that light non-aqueous phase liquid (LNAPL) consisting of No. 6 fuel oil measured greater than 0.5 inches in product thickness in two monitoring wells located inside the Power Plant building. The monitoring wells were advanced during Phase II assessment activities. LNAPL was not detected in any other of the wells completed in the vicinity of the Power Plant, and concluded that groundwater was flowing in a southwesterly direction across the disposal site. Vertex concluded that the LNAPL was confined to a “localized area beneath the concrete floor of the Power Plant building” and that, due to the presence of LNAPL, a condition of “no significant risk” did not exist at the site.
- June 25, 2002 – Vertex prepared a Phase III RAP and Class C RAO statement for the site. Vertex stated that LNAPL remained present in some site monitoring wells at a thickness of greater than 0.5 inches as recently as March 2002. Vertex recommended groundwater monitoring and product removal as the remedial action alternative for the site. Vertex also indicated that a temporary solution (i.e., a Class C RAO) was achieved since remedial actions had eliminated substantial hazards at the Site but that a condition of “no significant risk” did not exist at the

site. No further Site Information was posted on the MassDEP website after June 2002.

5.2.2 RTN 3-0011878, Rear Gate Off Waverley Oaks Road

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-3. This release has a current status of Class A-1 RAO.

According to the RAO Statement completed by Clean Harbors Environmental Services, Inc. (CHES) on January 11, 1995, approximately 30 gallons of No. 6 fuel oil were released on November 21, 1994 during the filling of one of three USTs located on the west side of the power plant. The release occurred when a clogged vent pipe created back pressure, forcing oil from the tank's fill port. Oil flowed across the pavement and over a retaining wall into the stream located west of the Power Plant building. Quality Fuel and Transportation, Inc. (Quality) and FDC personnel placed absorbent boom across the ground and several locations along the stream to contain the oil release. MassDEP was notified prior to the two-hour notification deadline, and the MassDEP representative approved of IRA activities which included (1) application of Speedi-Dri to the pavement, (2) deployment of boom across the stream, (3) collection of oil using absorbent materials, (4) wiping down of residual oil on the concrete retaining wall, (5) drumming of spent boom, Speedi-Dri, and absorbent materials, and (6) removal of residual oil from rocks in the stream. After cleanup was completed, CHES inspected the stream and observed oil-impacted sediment along the brook. CHES obtained approval from MassDEP and the Waltham Conservation Commission to remove two 55-gallon drums of impacted sediment removed from three locations along the stream bed. Sediment confirmation samples could not be collected because all the oily sediment was removed and only large rocks and boulders remained. CHES concluded that the response actions resulted in the removal of all released oil, and that no residual impacts from this release remained. Since a level of "no significant risk" was achieved, remedial actions resulted in a Class A-1 RAO.

5.2.3 RTN 3-0013467, Power Plant Near Waverly Oak Entrance

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-7. This release has a current status of Class A-3 RAO and includes implementation of an AUL.

5.2.3.1 Notification

According to the RAO Statement completed by Coneco on March 19, 2008, RTN 3-0013467 was assigned by MassDEP on February 20, 1996, after No. 6 fuel oil was observed on the west side of the Power Plant in the vicinity of the concrete retaining wall located near three No. 6 fuel oil USTs. As discussed in section 5.2.1, RTN 3-0013467 was subsequently linked with RTN 3-001367.

5.2.3.2 IRA

The IRA which addressed this release involved deployment of oil absorbent pads and boom in the adjacent stream as well as removal of the three approximately 42-year old USTs. The USTs were removed between July and December 1996. In addition, approximately 1,000 cubic yards of No. 6 fuel oil impacted soil and 15,000 gallons of impacted groundwater were removed from the site during IRA activities. Facility personnel interviewed as part of this ESA stated that since the whole facility was powered by the Power Plant, the tanks needed to be removed one at a time to avoid any interruption of services to the facility.

5.2.3.3 Phase II CSA

Coneco reported that in August 1998, Vertex completed a Phase II CSA report and reported that LNAPL consisting of No. 6 fuel oil measured greater than 0.5 inches in product thickness in two monitoring wells located inside the Power Plant building. The monitoring wells were advanced during Phase II assessment activities. LNAPL was not detected in any other of the wells completed in the vicinity of the Power Plant, and determined that groundwater was flowing in a southwesterly direction across the disposal site. Vertex concluded that the LNAPL was confined to a “localized area beneath the concrete floor of the Power Plant building” and that, due to the presence of LNAPL, a condition of “no significant risk” did not exist at the site. TechLaw notes that the MassDEP Site Information indicates that the Phase II Completion Statement was received on January 15, 1999.

5.2.3.4 Phase III RAP and Class C RAO

According to the Coneco RAO completed dated March 19, 2008, Vertex prepared a Phase III RAP and Class C RAO Statement on June 25, 2002. These findings were summarized by Coneco. Vertex reported that LNAPL remained present in some site monitoring wells at a thickness of greater than 0.5 inches as recently as March 2002. Vertex recommended groundwater monitoring and product removal as the remedial action alternative for the site. Vertex also indicated that a temporary solution (i.e., a Class C RAO) was achieved since remedial actions had eliminated substantial hazards at the Site but that a condition of “no significant risk” did not exist at the site.

5.2.3.5 Class A RAO and AUL

Coneco completed a Class A-3 RAO statement on March 19, 2008. A Class C RAO related to this release was previously submitted by Vertex in 2002. A Class C RAO is a temporary cleanup. The MCP requires that every five years, sites with a Class C RAO must be re-evaluated to determine whether a Class A or Class B RAO is possible. Under the MCP, all sites are expected to achieve either a Class A or Class B RAO. A Class A-3 RAO is considered a “permanent solution” at sites where contamination has not been reduced to background and for which an AUL has been implemented as part of the

“permanent solution.” AULs are recorded at the Registry of Deeds and limit future exposure to contaminants remaining at a site.

Beginning in August 2003, Coneco began quarterly groundwater monitoring at the site and submitted groundwater samples for Extractable Petroleum Hydrocarbon (EPH) analysis. In May 2007, Coneco advanced two additional soil borings south and east of the Power Plant to further define the boundaries of the “disposal site.” The two borings were completed as monitoring wells and two soil boring samples were submitted for EPH analysis. In addition, Coneco completed a Stage I Environmental Screening to characterize potential exposure to Site biota and habitats which may have been impacted by the release. Based on groundwater elevations in the two new and seven previously installed site wells, groundwater flow direction was determined to be in a southwest to southerly direction. On May 2007, groundwater depths within the nine site wells ranged from 0 to 10.4 feet bgs. LNAPL was last detected in one well, MW-B2 (located inside the Power Plant building), in October 2005 and has not been detected at thicknesses greater than 0.1 inch in any site well in the four subsequent quarterly sampling rounds. No EPH constituents were detected in groundwater from the nine groundwater samples collected in May 2007.

Coneco concluded that groundwater at the Site is classified under the MCP as GW-2 and GW-3 and that a condition of “no significant risk” exists at the Site with respect to groundwater. Groundwater exposure point concentrations (EPCs) for all site wells were calculated well below the applicable GW-2 and GW-3 MCP Method 1 standards for the C9-C18 aliphatic hydrocarbon fraction, the C19-C36 aliphatic hydrocarbon fraction, and the C11-C22 aromatic hydrocarbon fraction. Coneco did not calculate EPCs for PAH target compounds. Detectable concentrations of PAHs were not reported by the laboratory between January 2006 and May 2007. In addition, the NAPL Upper Concentration Limit (UCL) of 0.5 inches has not been exceeded during the final four groundwater sampling rounds.

For the purposes of the MCP Method 1 Risk Assessment, Coneco compared soil EPCs with the most conservative MCP Method 1 S-1/GW-2 and S-1/GW-3 standards to account for potential future site uses which may involve redevelopment of the Site. Coneco stated that for current site uses, a condition of NSR exists but for potential future development scenarios involving residential development, a condition of NSR does not exist. Therefore, as part of the conditions of the Class A-3 RAO, Coneco implemented an AUL at the Disposal Site to prevent future potential exposure to contaminated soil.

Further, Coneco concluded that the sources of contamination have been removed and that an Imminent Hazard (IH) and a condition of Substantial Release Migration (SRM) do not currently exist at the Site. Coneco further concluded that it was not feasible to reduce contamination to background (i.e., “non-detectable”) conditions.

The AUL for the Site was recorded in Middlesex County Registry of Deeds (MCRD) Plan Book 50880, Pages 306 through 325. The AUL applies to a 17,835 square foot (approximately 0.4 acre) surveyed parcel which is located along the south side of the

Power Plant building and includes approximately one-half the footprint of the Power Plant building. The AUL applies to soil between 2 and 15 feet below surface grade within the surveyed area. Activities prohibited within the AUL area include use of buildings within the AUL area as an office, store, residence, school, or daycare; cultivation of fruits and vegetables for human consumption; recreational and leisure activities; and relocation of contaminated soils within the designated area.

5.2.4 RTN 3-0015149, Power Plant, 200 Trapelo Road

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-9. This release has a current status of Class B-1 RAO.

As part of an underground tank closure at the FDC Power Plant on May 29, 1997, Vertex observed the removal of a 1,000-gallon gasoline UST which was situated between the north wall of the Power Plant building and Chapel Street. The UST stored gasoline for a generator located inside the Power Plant building. The UST was pumped of gasoline and water prior to its removal from the ground. The UST was slightly weathered but had “no apparent areas of significant corrosion or holes.” Vertex collected soil samples from the excavation base and side walls for soil headspace screening using a photoionization detector (PID). Vertex did not observe visual and olfactory indications of gasoline contamination in soil side wall samples; however, Vertex observed a gasoline odor in the soil collected from the bottom of the excavation. Groundwater was not observed at the base of the 8-foot deep excavation. Five soil headspace screening samples were then collected from the four sidewalls and base of the excavation. The side wall sample PID readings ranged from non-detected to 7 ppmv Total Organic Vapors (TOV) by volume, but the headspace reading for the base of excavation sample was 250 ppmv. Because the soil headspace from the base of the excavation exceeded the MCP notification criteria of 100 ppmv, VERTEX notified MassDEP of the release on May 30, 1997. MassDEP subsequently assigned RTN 3-15149 to the gasoline release and provided verbal approval for an “Assessment only” Immediate Response Action (IRA) which consisted of collecting soil samples to assess the nature and extent of the release. The “Assessment only” IRA was conducted due to the presence of underground utilities (including high pressure steam pipes) which were located near and adjacent to the excavation.

Vertex collected soil confirmation samples, and the excavation was lined with polyethylene sheeting and backfilled to grade with soil. Six soil confirmation samples were submitted for laboratory analysis for gasoline-related VOCs [i.e., benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE] and two soil samples were submitted for TPH analysis. Detected concentrations of toluene, ethylbenzene, total xylenes, MTBE, and TPH did not exceed their corresponding MCP Method 1 S-1/GW-2 standards. Vertex completed the RAO statement on June 30, 1997 and concluded that, based upon these laboratory results, further remedial actions were not necessary and that a condition of “no significant risk” was present at the Site. Closure for this release is categorized as a Class B-1 RAO which indicates that no remedial work was necessary to achieve a level of “no significant risk.”

5.2.5 RTN 3-0015442, Power Plant, 200 Trapelo Road

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-5. This release has a current status of Class A-2 RAO.

According to the RAO Statement completed by Corporate Environmental Advisors (CEA) on October 24, 1997, a release of approximately 100 gallons of No. 6 fuel oil occurred at the Power Plant on August 19, 1997, during a routine fuel delivery. The fill line on an oil delivery truck became disconnected from the UST fill port, and the oil was released to an asphalt and concrete driveway surface. Approximately 50 gallons of oil flowed down the concrete retaining wall adjacent to the driveway to the dry stream bed. T.S. Truck Service notified MassDEP within the required two-hour notification period.

MassDEP personnel subsequently granted verbal IRA approval to the response contractor to apply absorbents to the driveway and other impacted surfaces as well as boom in the dry stream bed in an effort to contain the release. The MassDEP representative also granted verbal IRA approval for pumping of pooled oil from the stream bed and excavation of up to 5 cubic yards of impacted soil from the stream. A post-excavation composite soil sample for EPH analysis was collected from the dry stream bed on August 20, 1997. Approximately 6 weeks later, a background soil sample was collected from an upgradient location in the stream and submitted for EPH analysis. The concentrations of EPH aliphatic and aromatic hydrocarbon fractions were below the most conservative MCP Method 1 soil standards; additionally, further excavation in the stream to reduce concentrations to background was determined to be infeasible due to the inaccessible location and presence of boulders in the stream bed.

Based on detected EPH constituents in a soil sample collected on August 20, 1997 from a “parting” within the impacted stained driveway area, CEA subsequently completed a subsurface soil assessment beneath the concrete and asphalt driveway area where cracks and breaches were observed. Three soil borings were advanced through the driveway surface and soil samples were collected from 6 inches to 1 foot bgs and submitted for EPH analysis. Although EPH aliphatic and aromatic hydrocarbon fractions were below the applicable MCP Method 1 standards, the concentrations of four PAH compounds exceeded the Method 1 standard. These PAH compounds included benzo(a)anthracene, dibenzo(a,h)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene. As a result, in October 1997, CEA excavated approximately 10 cubic yards of soil from beneath the impacted driveway area to a depth of approximately 3 feet below grade. Three additional composite soil samples were collected for EPH analysis from the extent of the excavation; PAH concentrations for the same four compounds remained above the Method 1 standards in only one of the soil samples. Based on an interview with facility personnel, CEA attributed the elevated residual PAH concentrations to a historical release in the vicinity of the driveway. CEA removed the stockpiled and drummed remediation waste from the Site and completed an MCP Method 2 Risk Assessment to “close” the Site with a Class A-2 RAO. A Class A-2 RAO indicates that a permanent solution has been achieved but that contaminant concentrations have not been reduced to background (i.e., non-detect).

5.2.6 RTN 3-0010725, Fernald School

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-10. This release has a current status of Class A-2 RAO.

According to the RAO Statement completed by Vertex on June 21, 2000, MassDEP was notified on March 22, 1994 of a threat of a release following tank tightness testing of two, 4,000-gallon gasoline USTs located in a paved area on the east side of the Farm and Grounds building. The tanks were used to store gasoline used to refuel FDC vehicles; the tanks were connected to a gasoline pump in this location. MassDEP subsequently assigned RTN 3-0010725 to this location.

As part of the initial site investigation, the tanks were uncovered and faulty check valves and venting systems were repaired on each tank. The tanks were subsequently tested and "confirmed tight." Nevertheless, MassDEP ordered further subsurface investigation. Soil and groundwater levels of gasoline-related contaminants exceeded applicable MCP Method 1 standards. Web Engineering Associates, Inc. (WEB) submitted the IRA and Phase I Completion reports to MassDEP in June 1995, and WEB classified the disposal site as a Tier II site.

The two gasoline USTs, the associated pumping system, and impacted soil were subsequently removed as part of a RAM conducted by Vertex in 1997. Confirmation soil samples were collected from each of the tank graves, and laboratory results indicated that gasoline contamination had been reduced to below MCP Method 1 S-1/GW-2 and S-1/GW-3 standards. Under subsequent RAM assessment activities, downgradient soil borings were completed as monitoring wells, and additional soil and groundwater samples collected from these downgradient locations. Because gasoline related compounds were detected in groundwater within the former UST excavation, and a soil sample from a boring beyond the limits of the excavation exceeded applicable MCP Method 1 standards, additional remedial excavation was completed in March 2000. Subsequent soil and groundwater analyses indicated that remaining concentrations of gasoline-related compounds in these media were below the applicable MCP Method 1 standards; as such, Vertex submitted an RAO statement for a Class A-2 RAO for the site in June 2000.

5.2.7 RTN 3-0015121, Fernald School

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-12. This release has a current status of Class A-2 RAO.

According to an RAO Statement prepared by Vertex dated June 30, 1997, MassDEP assigned RTN 3-0015121 to a gasoline release from the damaged fuel tank of a passenger van owned by the Massachusetts Department of Mental Retardation (MDMR) on May 20, 1997. The van driver backed up into a broken light stanchion which resulted in a punctured gasoline tank. Unaware of the leak, the driver proceeded over paved roadways throughout the FDC campus, making stops at two additional locations. Because the capacity of the gas tank was 35 gallons and the exact amount of fuel present in the gas tank was not known prior to the incident, the estimate of 35 gallons is considered an upper limit; the total amount of gasoline released was estimated at less than 35 gallons.

The areas which were impacted and the estimated volume of gasoline released at these locations included (1) approximately 3 to 4 gallons of gasoline to the paved and grassy area around the point of contact with the light stanchion near the "Fernald Workshops" (presumed to be Site 7) (2) approximately 5 to 10 gallons of gasoline onto the pavement in the parking lot of the Shriver Center, (3) approximately 10 to 12 gallons of gasoline impacting a puddle in the paved parking area at the on-campus bottle Redemption Center (which was located at East/Dowling Hall at that time), and (4) an undetermined amount of gasoline along the roadways between the three locations. The report noted that some residual gasoline at the Shriver Center was washed across the parking lot onto soils near a dumpster.

MassDEP provided verbal approval for an IRA on the day of the incident. Response actions conducted by the response contractor included the use of absorbent materials to collect gasoline on paved areas and collection of gasoline impacted rainwater in a puddle using a vacuum truck. Vertex subsequently collected shallow soil samples from two unpaved locations, and submitted the samples to a laboratory for TPH and VOC analysis (for BTEX and MTBE only). Since soil sample concentrations did not exceed the applicable Method 1 S-1/GW-2 cleanup standard, Vertex concluded that response actions resulted in the removal of the source and that a condition of "no significant risk" existed at the Site. Because contamination remained above background levels in soil areas impacted by the release, a Class A-2 RAO was achieved at the Site.

As part of this ESA, TechLaw verified with Mr. Paul Bermingham that the Release Locations depicted on Figure 2 of the Vertex report were not entirely correct. The building noted by Vertex to be the Redemption Center is actually Hillside, the former Superintendent's residence. TechLaw manually corrected Figure 2 of the Vertex report to correctly indicate the location of the Redemption Center, which at the time was located in the East/Dowling Hall.

5.2.8 RTN 3-0021892, Malone Park Bldg. No. 21

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-6. This release has a current status of Class A-2 RAO.

According to the RAO Statement completed by Coneco on June 27, 2003, a release of an unknown quantity of No. 2 fuel oil was discovered during closure of a 500-gallon No. 2 fuel UST located on the south side of Malone Park Building No. 21 (ICF 23) on June 26, 2002. Upon removal, the tank was inspected and no holes were observed in the tank shell. Because the PID readings for the soil jar headspace samples collected from the UST excavation exceeded 100 parts ppmv, MassDEP was notified within the required 72-hour time period, assigned RTN 3-0021892 to the release, and provided verbal approval for IRA activities.

This "disposal site" is located in the area of the former UST along the south wall of Malone Park Building No. 21. Following the detection of elevated PID headspace readings and observation of a light sheen on groundwater within the UST excavation, Coneco used PID headspace readings to determine the endpoint of the UST excavation. The final excavation dimensions were 15 feet by 15 feet to a depth of 7 feet. Five composite soil confirmation samples were collected for EPH from the excavation sidewalls and base; no EPH petroleum hydrocarbon fractions and PAH

target compounds were detected in any of the confirmation samples. Petroleum-impacted soil was stockpiled and subsequently removed from the site.

In January 2003, three test borings were advanced to depths ranging from 6 to 14 feet bgs to assess for the presence of downgradient petroleum impacts, and the borings were completed as monitoring wells. Two soil and three groundwater samples collected in January 2003 were submitted for EPH analysis. EPH petroleum hydrocarbon fractions and target analytes were not detected in either soil sample and in two of the three groundwater samples, but low levels of EPH petroleum hydrocarbon fractions were detected in groundwater collected from the well installed in the backfilled UST excavation. A second round of groundwater samples was collected for EPH in June 2003; no detectable levels of EPH petroleum hydrocarbon fractions and target analytes were reported by the laboratory. A Method 1 Risk Characterization was completed, and soil and groundwater EPH EPCs were below the applicable Method 1 standards. Additionally, Coneco concluded that no uncontrolled sources of contamination remained at this site and no additional response actions were necessary. The Method 1 Risk Characterization indicated that a permanent solution was achieved, resulting in a condition of “no significant risk” at the disposal site for all current and future activities and uses. Therefore, conditions meeting the criteria of a Class A-2 RAO were achieved.

5.2.9 RTN 3-0021893, Malone Park Bldg. No. 23

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-8. This release has a current status of Class A-2 RAO.

According to an IRA Status Report completed by Coneco on February 26, 2004, a release of an unknown quantity of No. 2 fuel oil was discovered during closure of a 500-gallon No. 2 fuel UST located on the west side of Malone Park Building No. 23 on June 26, 2002. Upon removal, the tank was inspected and no holes were observed in the tank shell. Because the PID readings for the soil jar headspace samples collected from the UST excavation exceeded 100 parts ppmv, MassDEP was notified within the required 72-hour time period, assigned RTN 3-0021893 to the release, and provided verbal approval for IRA activities.

The disposal site is located in the area of the former UST between the west wall of Malone Park Building No. 23 (ICF 23) and a stone retaining wall further to the west of the former UST area. Coneco detected elevated PID headspace readings and observed a light sheen on groundwater within the UST excavation. In July 2002, soil was excavated from the former UST location. The final excavation dimensions were 20 feet by 20 feet to a depth of 11 feet. Five composite soil confirmation samples were collected for EPH from the excavation sidewalls and base; no EPH petroleum hydrocarbon fractions and PAH target compounds were detected in any of the confirmation samples above applicable Method 1 standards. Petroleum-impacted soil was stockpiled and subsequently removed from the site.

As part of a supplemental subsurface investigation begun in January 2003 and completed in June 2003, three test borings were advanced to depths ranging from 11 to 13 feet bgs to assess for the presence of downgradient petroleum impacts. Three borings were completed as monitoring wells. Two soil and three groundwater samples were submitted for EPH analysis. Low

concentrations of EPH petroleum hydrocarbon fractions and PAH target analytes were detected in soil sample B-2, and soil sample B-3 was non-detected for all EPH petroleum hydrocarbon fractions and PAH target compounds. However, concentrations of EPH petroleum hydrocarbon fractions and the PAH target compound phenanthrene exceeded applicable Method 1 GW-2 and/or GW-3 standards for the groundwater collected from monitoring well CMW-1 installed in the backfilled UST excavation. Only one EPH aliphatic fraction exceeded the Method 1 GW-2 standard for groundwater collected from monitoring well CMW-2 which is located approximately 20 feet from the southeast corner of the final UST excavation. Because a condition of “no significant risk” was not present in groundwater at the site, further soil excavation was completed in September 2003. Further, in order to meet MCP deadlines, Coneco submitted a Phase I Initial Site Investigation and Tier II Classification submittal for the disposal site in July 2003; TechLaw did not review the MCP Phase I report because the IRA Status Report summarizes findings which were included in the Phase I report.

Remedial activities resulted in reduced EPH concentrations in groundwater. Three additional rounds of groundwater samples were collected for EPH analysis in November 2003, December 2003, and February 2004. The IRA Status Report specified that at least four additional rounds of groundwater samples would be collected from the Site.

According to the Site Information presented on the MassDEP website, the IRA Completion report and RAO Statement were received by MassDEP on August 4, 2005. A Class A-2 RAO was achieved at the site, which indicates that a permanent solution was achieved but that contamination was not reduced to background.

5.2.1 5.2.10 RTN 3-0021380, Thom Building

File information for this RTN obtained during the MassDEP file review and a website search is provided in Exhibit C-11. This release has a current status of Class A-1 RAO.

According to an IRA Completion and RAO Statement prepared by Coneco on July 9, 2002, 12 gallons of diesel fuel were released by a malfunctioning supply pump inside the basement of the generator room in the Thom Building on January 7, 2002. Diesel fuel flowed across the concrete slab floor and underneath the door outside the building, impacting an approximately 50 square foot area of soil and asphalt pavement.

MassDEP was notified within two hours of facility personnel obtaining knowledge of the release, and assigned RTN 3-0021380 to the release. IRA activities included the application of absorbent materials to the release area and drumming of spent absorbent and liquids; collection of five surficial soil samples for EPH analysis from the impacted soil on the north side of Thom Building; hand excavation of surficial soils located adjacent to the generator room to a depth of approximately 14 inches (resulting in the excavation and removal of 0.65 cubic yards of contaminated soil); and collection of post-excavation soil confirmation samples for EPH analysis. No petroleum hydrocarbon fractions were detected in the post-excavation soil confirmation samples. Coneco concluded that since no uncontrolled sources of contamination remained, additional response actions were not necessary. Coneco also concluded that remedial

actions reduced contaminant levels to background; therefore, a condition of “no significant risk” for current and future uses existed at the site; therefore a permanent solution was achieved which meets the criteria of a Class A-1 RAO.

5.3 Activity and Use Limitations

An AUL was implemented for a 0.4-acre parcel impacted by No. 6 fuel oil from the former USTs at the Power Plant. The AUL was implemented in association with the Class A-3 RAO for the Power Plant under RTN 3-0013467 which restricts land uses in the vicinity of the Power Plant located on the southern portion on the Property. TechLaw notes that the EDR Environmental Lien Report did not identify any AULs recorded for 200 Trapelo Road.

5.4 Physical Setting Sources

Information regarding the physical setting of the Property was obtained from the MassGIS website, a site visit, and topographic maps.

5.4.1 Topography

The USGS Boston North Quadrangle 7.5 minute series topographic map was reviewed for this ESA and is included as the Site Locus Plan (Figure 1). Property elevations range from approximately 50 feet above MSL in the wetland area southwest of the FDC’s Waverley Oaks entrance driveway to approximately 240 feet above MSL near the peak of Owl Hill, located on the eastern portion of the Property. Areas to the southwest and southeast are at lower elevations than the Property elevations in general. Clematis Brook is not on the Property, but flows from the northwest to the southeast just south of the Property and ultimately discharges into Beaver Brook. Beaver Brook flows generally from north to south beyond the eastern perimeter of the Property beyond Waverley Oaks Road. Slopes across the Property are gentle closest to Trapelo Road but steepen further to the south on the Property.

5.4.2 Soils/Geology

According to the MassGIS Bedrock Lithology map for the Property (Figure 5), bedrock consists of mafic rocks and granite. TechLaw observed numerous bedrock outcrops across the Property during the site inspection.

According to the MassGIS Surficial Geology map (Figure 6), nearly all of the Property consists of till or bedrock with a minor component of sand and gravel deposits in the vicinity of the wetland on the southern corner of the Property.

5.4.3 Hydrology

Site Hydrographic Features are presented on Figure 4. Groundwater in the vicinity of the Property flows in a generally southerly direction toward the Charles River which is located between 1.0 and 1.5 miles south of the Property. However, actual groundwater flow direction on the Property varies based on land topography, and could flow in directions other than to the south, depending on localized features.

Groundwater in the vicinity of the Property is not used for potable water purposes as Waltham's water supply is provided by the MWRA whose source is the Quabbin Reservoir. Depth to groundwater on the Property varies based on elevation, local topographic gradients, and proximity to water bodies. A wetland area occupies the southern corner of the Property and the nearest surface water in the vicinity of the Property is Clematis Brook which follows the southwestern property line beyond the Property and discharges into Beaver Brook, a tributary of the Charles River.

5.4.4 Flood Zone Information

A review of the MassGIS FEMA Flood Zone map (Figure 8) indicates that the yellow area surrounding the wetland on the southern corner of the Property is mapped as flood zone X500. The on-site wetland is within Flood Zone AE, the area of a 100-year flood zone.

5.4.5 Oil and Gas Exploration

No oil or gas wells were observed on the Property or depicted on the USGS Topographic Map.

5.5 Historical Use Information on the Property

The Property was used for agricultural and residential uses prior to its development as a school for developmentally delayed patients. TechLaw reviewed available standard historical resources to obtain information on past uses and development of the Property and surrounding parcels.

5.5.1 Aerial Photographs

TechLaw obtained aerial photographs for the Property vicinity from EDR and reviewed available aerial photographs dated 1938, 1955, 1960, 1978, 1980, 1987, 1995, and 2006. A copy of the EDR Aerial Photo Decade Package is included in Exhibit B-1 of this report. The photographs are summarized below:

Date: December 1938

Description: The 1938 aerial photograph shows the Property with numerous buildings to the south and primarily agricultural fields along Trapelo Road to the north (except for the residences present on the south side of Trapelo Road). Areas to the north of Trapelo Road include agricultural fields and residential neighborhoods. The area to the west, south, and east of the Property is mostly wooded terrain. Waverley Oaks Road is present on the southeastern corner of the photograph and the Pierce Brothers greenhouse complex is visible east of Waverley Oaks Road.

Date: December 1955

Description: The 1955 aerial photograph shows the Property with few notable changes since the 1938 photograph except for the addition of the Greene Unit on the western portion of the Property. Significant changes in surrounding

properties include the oval-shaped Murphy Army Hospital complex (northwest of the Property); a building of the Massachusetts Metropolitan State Hospital (north of the Property), further development of residential neighborhoods (north and east of the Property); tank farms with large ASTs (southeast of the Property beyond Waverley Oaks Road). The photograph shows containers (possibly ASTs) and a lagoon at the rear portion of the Pierce Brothers greenhouse complex located southeast of Waverley Oaks Road. This complex is shown immediately north of a winding stream and north of railroad tracks.

Date: May 1960

Description: The 1960 aerial photograph shows the Property in much the same configuration as in 1955. The resolution of the photograph is poor, making it difficult to observe any changes since 1955.

Date: April 1978

Description: The 1978 aerial photograph shows changes on the Property including the addition of a portion of the Cottage Complex (on the northwest side of the Property) and the Shriver Center (located near the Trapelo Road entrance to the Property). Off-site changes include the development of the residential neighborhoods between the east side of the Property and Waverley Oaks Road; replacement of the Pierce Brothers greenhouse complex with an office building, and construction of the Federal Records Center Archives building adjacent to the northwest Property boundary (formerly a baseball field on the Murphy Army Hospital grounds in a prior photograph). The wetland area west of Waverley Oaks Road is deeply furrowed, possibly due to the fly ash experiment that was being conducted on that parcel in 1978.

Date: October 1980

Description: The 1980 aerial photograph shows the Property in the same configuration as in 1978. The only significant change noted on nearby parcels is the addition of a second office building to the former Pierce Brothers greenhouse property (by that time owned by Duffy Brothers Construction).

Date: April 1987

Description: The 1987 aerial photograph shows the Property as previously shown. Although the photographic resolution is poor, it is possible to see that Malone Park has, at least in part, been developed or been cleared for construction of the four residential buildings. No other significant changes are noted to the Property or nearby properties.

Date: March 1995

Description: The 1995 aerial photograph shows the Property as it currently exists. The only significant changes noted to surrounding properties since 1987 includes the redevelopment of the tank farm on the southeast side of Waverley Oaks Road (the tanks having been removed and only the tank footprints visible) and additional office buildings across from the FDC Waverley Oaks entrance.

Date: 2006

Description: The 2006 aerial photograph shows the majority of the Property except for the Malone Park Drive residences on the southwestern portion of the Property. No significant changes are noted on the Property, and the former Murphy Army Hospital area (partially visible) has begun to be redeveloped with athletic fields.

No on-site RECs are evident on the Property. Off-site RECs or historical RECs include the area southeast of Waverley Oaks Road formerly utilized by Pierce Brothers (later purchased by Duffy Construction) which was impacted by waste oil and PCBs, the area southeast of Waverley Oaks Road formerly occupied by the Shell Products Distribution tank farm, and the fly-ash impacted wetland south of the Property.

5.5.2 Fire Insurance Maps

Sanborn Fire Insurance Maps (Sanborn Maps) dated 1897, 1903, 1911, 1918, 1950 and 1972 were available for review, and were provided by EDR/Sanborn. Adjacent parcels were not depicted on most of the Sanborn Maps. Copies of the Sanborn Maps are included in Exhibit B-2.

Date: 1897

Description: Two campus areas are depicted on the Sanborn Map. The E-shaped West Building (having dormitory wings, a kitchen, a dining room, day rooms, and a school room) is depicted adjacent to and northeast of a small building with three “heaters” and an attached coal shed (presumed to be Belmont House), and south of a building identified as North West Building (presumed to be MacDougall Hall). These buildings are noted as located one-half mile west of “Main Building” and that fire hydrants shown on the Sanborn Map were connected to the Waltham Water Works.

The remaining portion of the campus appears to be the old “quad” area. Fire hydrants around the buildings are connected by an 8-inch diameter water pipe connected to the Waltham Water Works. Fire hoses are noted for each of the major campus buildings. The northernmost building is identified as the North Building, and a Boy’s Dormitory (in the location of the Old Activities Center) is shown approximately 125 feet south of the North Building. The Administration Building (Waverley Hall) is southwest of the Boy’s Dormitory and the Schoolhouse (with a gymnasium and school building) is south-southeast of the Boy’s Dormitory. Further south of the Boy’s Dormitory is the Girl’s Dormitory

(Chipman Hall). A building with a laundry, boilers, and attached coal shed (the Store Room) is shown approximately 125 feet south of the Administration Building. Four smaller buildings are present further to the south including a hospital and what appears to be a carpenter shop with small detached shed and a “fumigating house.” TechLaw notes that these three of these four buildings no longer exist, although it appears that the “hospital” may be located at the same location as Stephen Bowen Hall. Text notes that “heat and power” are generated by steam.

Date: 1903

Description: The 1903 Sanborn Map shows that most of the structures had not significantly changed since 1897. Changes noted on the Sanborn Map include a northern addition to the Administration Building (Waverley Hall), a small addition to the laundry building (Store Room), and a southerly addition to the hospital (Stephen Bowen Hall)

Date: 1911

Description: The 1911 Sanborn Map shows two additional unidentified buildings on the western portion of the FDC campus north of MacDougall Hall which includes West Nurses and Dolan Hall. By 1911, an addition was constructed on the northwest side of MacDougall Hall and to the south side of Belmont House. Although not specifically named, six new structures were also added to the eastern portion of the FDC campus including North Nurses, Withington Building, East Nurses, Manual Training, Warren Hall, and South Nurses. An addition was also constructed onto the Store Room.

Date: 1918

Description: The 1918 Sanborn Map depicts a consolidated view of the FDC campus along with driveways. The only change to the western portion of the campus is the addition of a “pipe subway” that originates at the Boiler House (Belmont House), proceeds to the West Building, then connecting beyond with North West Building (MacDougall Hall) through two pipe subways and beyond that by one pipe subway to the N. North West Building (Dolan Hall). West Nurses does not appear to be connected to the pipe subway in this map.

The southwest corner of the Property is shown on the 1918 Sanborn Map depicts a cow barn and silo approximately 300 feet south of West Building and the Boiler House. Smaller structures south of the cow barn include a tool house, a long wagon shed, a two-story stable, and a one-story shed. An irregularly-shaped farmhouse with small building (presumed to be a shed) are located approximately 250 feet southeast of the cow barn, and two small structures connected by a structure (such as a porch or awning) and labeled “Men’s Home” is located approximately 200 feet northeast of the farmhouse.

By 1918, all but one of the major buildings on the eastern portion of the campus were connected by a pipe subway system which originated from

the Boiler and Laundry Building (Store Room). New buildings on the eastern side of the campus included an infirmary (Lavers Hall) and a recreation building (Southard Laboratory). A 35,000-gallon stand pipe was also visible on the hill east of the Manual Training building. Warren Hall and Chipman Hall were identified as girls' dormitories and Withington Building and the Old Activity Center were identified as boys' dormitories.

By 1918, two new structures had appeared on the FDC campus between the west and east campuses: East Dormitory (East/Dowling Hall) and the Superintendent's residence (Hillside). East Dormitory is shown having a heater room with two boilers; these two structures were not shown to be connected with any of the pipe subways.

Offsite buildings along Waverley Oaks Road included small residences, and the Pierce Brothers greenhouse complex to the southeast. In 1918, there were two entrances to the FDC from Waverley Oaks Road. Trapelo Road is not shown on the 1918 Sanborn Map.

Date: 1950

Description: Changes since the 1918 Sanborn Map include construction of the existing Administration Building; Assembly Hall (Howe Hall); Service Building (Old Service Building); a new laundry building (Laundry/Therapeutic Equipment Center); Tarbell Hall (designated as an employees building); Seguin Hall (an infirmary); the Maintenance Building; the Power Plant; the greenhouse, four small cottages (Cottages 17 through 20); a men's infirmary in the Wallace Building; a small storehouse; the garage; and Wheatley Hall (designated as a nursery). Other changes include additions onto North Nurses Home and the Old Service Building (which was shown to be used for storage), a transformer house between the garage and Stephen Bowen Hall. The transformer appears to be in the location of the former sterilizing building (fumigating building). By 1950, Waverley Hall was shown to be a dormitory. Medical and dental labs were shown in the Southard Laboratory building. Off-site properties do not appear to have changed significantly since 1918.

Date: 1972

Description: The 1972 Sanborn Map shows the addition of the Chapel, Thom Building (designated as a hospital), Building 55 (designated as a transformer yard); and Kelley Hall (designated as a boy's home and dormitory). The cow barn was no longer present, having been replaced by a small shed. Additions were made to East Dormitory (East/Dowling Hall) and the Old Service Building. Off-site properties do not appear to have changed significantly since 1950, although more residences are present on either side of Waverley Oaks Road than in 1950. One of the buildings in the former farmhouse area was identified as a "slaughter house."

Potential use of hazardous materials or petroleum as identified in the Sanborn Map review include the probable presence of asbestos in the "pipe subway" system, Power

Plant, and buildings with boilers (East Dormitory a.k.a. East/Dowling Hall, the Store Room, Belmont House); PCBs in transformer areas (Buildings 14 and 55); coal and/or petroleum storage (Power Plant, Belmont House); laboratory chemicals (including mercury) in Southard Laboratory which was used for dental and medical research purposes; herbicides, fungicides, and pesticides (Greenhouse); bactericides (in medical facilities and the sterilizing house); petroleum (Power Plant); and oils and solvents (Garage) and Maintenance workshops.

5.5.3 City Directories

TechLaw obtained a City Directory abstract from EDR to review historical uses of the Property. City directory abstracts were reviewed in five-year increments between 1970 and 2005. A copy of the EDR City Directory Abstract is included in Exhibit B-3. Environmentally significant occupants of the Property included the Shriver Center (medical research facility), various clinics, and Tufts Dental. These types of facilities generate small quantities of medical-related hazardous wastes.

5.5.4 Historical Topographic Maps

TechLaw obtained historical USGS topographic maps from EDR. Copies of the historical topographic maps are included in Exhibit B-4 and discussed below:

Date: 1903

Description: Some development is suggested on the southern portion of the Property between Cedar Hill and Owl Hill. A stream and wetland area is located on the western portion of the Property.

Date: 1947

Description: Buildings and roadways are present on the Property (which is shown as the Fernald State School), on the west side of Owl Hill. Clematis Brook is shown flowing beyond the southern portion of the Property, and an unnamed stream and pond on the Property discharge into Clematis Brook. Beaver Brook flows along the northern side of the Boston and Maine Railroad line southeast of the Property. The Metropolitan State Hospital complex is located north of the Property a considerable distance beyond Trapelo Road. Other than residential development in the immediate vicinity of the Property, no other changes have been observed since the 1903 topographic map. The Pierce Brothers greenhouse complex appears southeast of Waverley Oaks Road.

Date: 1950

Description: One substantial change noted since the 1947 topographic map is the development of the Murphy General Hospital Complex west of the Property.

Date: 1956
Description: Changes to the Property since the 1950 topographic map includes the addition of the Greene Unit on the western portion of the Property. The railroad siding which enters the Property from the southeast is visible on the topographic map. The initial development of the Shell Oil Distribution facility is noted by the two tanks (black circles) on the map south of Waverley Oaks Road. The water tower that serves the Property is located on the hilltop north of Trapelo Road, and a building of the Metropolitan State Hospital is located along the road to the water tower.

Date: 1971
Description: By 1971, the topographic map includes the Murphy Federal Archives building northwest of the Property, and additional large ASTs on the Shell Products Distribution center south of the Property and Waverley Oaks Road.

Date: 1985
Description: Changes to the Property include construction of a portion of the Cottage Complex on the northwest side of the Property and the construction of Malone Park Road. The only significant change to nearby properties is the construction of a long office building south of Waverley Oaks Road where the Pierce Brothers greenhouses were previously located.

Off-site RECs observed from the review of the USGS topographic maps include the Shell Distribution Center tank farm and Pierce Brother greenhouses southeast of Waverley Oaks Road.

5.5.5 Additional Historical Record Sources

TechLaw reviewed several documents as part of this ESA to obtain historical use information and ascertain whether past operations on the Property indicated the potential presence of RECs. These historical records include two documents reviewed at the Archive Room of the Waltham Public Library, and the Wikipedia entry for the Fernald School. Historical information relevant to the development and historical use of the Property is summarized below.

5.5.5.1 National Register of Historic Places Registration Form and Attachments

On August 31, 1992, Preservation Consultant Candace Jenkins prepared a Registration Form including the final draft of a report to place the Walter E. Fernald State School on the National Register of Historic Places. A copy of the report is included in Exhibit B-6. The report provides information on the history of the FDC and includes building construction and use information as well as activities which occurred on the Property. Dates of construction for the buildings on the Property and their historical usage are incorporated into Table 5-5 which included as an attachment at the end of this report.

According to the Jenkins report, the Massachusetts School for Feeble Minded Children was originally founded in South Boston in 1848. By 1887, the school had outgrown its

physical facility in South Boston, and the Massachusetts State Legislature purchased farm land in rural Waltham from the Bird, Baldwin, Lawrence, and Warren families. In 1888, the legislature appropriated funding to construct buildings for the School for Feeble Minded Children in Waltham. In 1888, an existing stone farmhouse was renovated to house an “advance team” of up to 30 boys who, along with the resident farmer and his family, dug drains and made roads for the new school. By 1890, the Asylum Building (now the West Building) was completed in the southwestern corner of the campus and included steam heat and incandescent electric lights from the original power plant (now the Belmont House).

Between March 1890 and December 1891, patients from South Boston were transferred to the new Waltham facility. Several major buildings that comprise the campus core area were subsequently completed between 1891 and 1914. Tufts Dental clinic was established on campus 1917, and research involving x-ray examination of the brain began in the 1920s. During the 1920s, staff residences and Southard Research Laboratory were constructed. By 1925, the Massachusetts School for the Feeble Minded was renamed the Walter E. Fernald State School, one year after the death FDC’s first resident superintendent. A third wave of construction was completed during the 1930s. Major post-war expansion of the campus occurred during the 1950s through the 1970s with construction of many of the more modern structures. Additional housing clusters were constructed on the northwest (Cottages 3-13) and southwest (Malone Park) sides of the Property from the mid-1970s through the late 1980. The FDC was added to the National Register of Historic Places in 1994. TechLaw notes that the newest campus building, Pearlman, was not mentioned in the Jenkins report; this facility operates as the "new food service building" and was likely completed in 1992.

5.5.5.2 History of the Walter E. Fernald State School

TechLaw reviewed Dr. Anna M. Wallace’s *History of the Walter E. Fernald State School* which was dated 1941. This history was used as a source of information for the Jenkins report, and was available for review at the Waltham Public Library. In addition to information provided in section 5.5.5.1, the Wallace history stated that a sewer connection to the Waltham Division of Metropolitan Sewerage System was completed in 1894.

5.5.5.3 Wikipedia Summary

TechLaw also obtained information from a Wikipedia posting for the Fernald School, which is included in Exhibit B-7. Of potential environmental interest, Wikipedia cited that, during the period of 1946 through 1953, 57 boys were fed oatmeal laced with radioactive calcium and iron. The experiments on FDC children were conducted by Harvard University and the Massachusetts Institute of Technology (MIT) researchers, presumably to determine the effect of radiation on body systems. Radiation levels were measured in the boys’ blood and stool samples. Wikipedia suggests that the radiation doses were relatively low. No further information was obtained which confirmed the location where radioactive chemicals may have been stored or analyzed on the Property;

however, suspected storage locations for the radioactive materials include the Southard Laboratory and Lavers Hall which served as the infirmary at the time of the testing.

5.5.5.4 EDR Environmental Lien Report

At TechLaw's request, EDR conducted an environmental lien search for the Property. The EDR Environmental Lien Report (Lien Report) is included in Exhibit B-5. The Lien Report does not indicate that any environmental liens have been recorded for 200 Trapelo Road. The Lien Report included a copy of a 1931 deed related to 200 Trapelo Road recorded at the MCRD in Book 5600 and Page 550 along with a Plan of Land. The deed was executed to convey a 1.5-acre parcel from the City of Waltham (located behind the Phineas Lawrence School) to the Walter E. Fernald State School (owned by the Commonwealth of Massachusetts). TechLaw notes that the Plan of Land, dated December 1929, identifies owner of the parcel to the west of the Phineas Lawrence School as the Roman Catholic Archbishop of Boston; this church-owned parcel is currently part of the Subject Property parcel (APN R036 008 0001). The parcel east of the Phineas Lawrence School (part of APN R045 001 0001) was identified as formerly owned by the Heirs of James F. Baldwin.

5.5.6 Prior Assessment Reports

Mr. Paul Bermingham, Director of Campus Safety, provided TechLaw with a copy of the Spill Prevention, Control, and Countermeasure (SPCC) Plan for the FDC which was prepared by FS Engineers, Inc. and finalized in March 2005. A copy of the SPCC plan is included in Exhibit D-1, and listed the locations of petroleum filled USTs, ASTs, and transformers on the Property. The Facility Site Plan shows the locations of these containers. Each numbered container is listed either on SPCC Table 1 (for Total Petroleum Product Bulk Storage) or SPCC Table 2 (Total Petroleum Product Bulk Storage FDC Transformers).

The SPCC plan appears to be outdated based on the following discrepancies:

- Table 1 indicates that 3 USTs (2U to 4U) are present at the Power Plant. According to Power Plant personnel, these three USTs were removed and replaced by two 20,000-gallon USTs approximately 15 years ago. Waltham Fire Department records indicate that the three old USTs were removed in 1996.
- *Section 3.2 Spill Control* states that Thom Building has a double-walled, 275-gallon diesel AST outside the building; however, TechLaw observed that the AST outside the Thom Building is a propane AST. The 275-gallon AST may remain inside the Thom Building.
- *Section 3.2.2 Non-Bulk Storage Control* indicates that "all transformers have been retrofitted with non-PCB containing transformer oil; however, PCB warning signs are posted on the chain link fencing around Building 55's transformer area and at least one transformer inside the fenced compound.

- *Section 6.0 Site Security* indicates that gasoline tanks at the “Grounds Department” (presumed to be Farm and Grounds Department) are equipped with overfill detection and prevention features; however, other records indicate that the two gasoline USTs were removed in 1997 along with the fuel pump.

TechLaw notes that reports submitted to MassDEP related to response actions conducted on the Property are discussed in a prior section of this report.

5.6 Historical Use Information on Adjoining Properties

By review of the standard historical sources referenced above, the historical uses of the adjoining properties are summarized below:

Northeast: Prior to the current use of properties to the northeast as residences, a vacant state dormitory, undeveloped land, and an elementary school, the land was rural farmland. The state-owned building at 475 Trapelo Road was closed in 1992 and was part of the Metropolitan State Hospital; it housed a treatment center for insane children and was built some time between 1938 and 1955. The Phineas Lawrence public school has occupied its parcel since at least the 1930s. Construction of the off-site residences along Trapelo Road occurred between the 1930s and the 1960s.

Southeast: Prior to the current use of the properties to the southeast as residences and office buildings, the majority of the land consisted of undeveloped woodland or residences. Most of the land southeast of the Property was owned by the Pierce family and, by the 1920s, the Pierce Greenhouse complex occupied the land southeast of Waverley Oaks Road. The residential neighborhoods east of the Property were built on land originally owned by the Pierce family; houses in this area were constructed between the 1930s and late 1970s. The Pierce Brothers Greenhouses were demolished sometime between the 1960s and 1978, by which time a long office building was constructed by Duffy Brothers Construction, Inc. on the parcel located at 411 Waverley Oaks Road. By 1955, large gasoline and oil ASTs occupied the parcel across the road from the FDC’s Waverley Oaks entrance; this was, in later years, referred to as the former Shell Product Distribution Plant. The tanks were removed between 1987 and 1995, and office buildings replaced the tank farm between the 1990s and 2006. Due to the storage and use of waste oil on the Duffy Brothers parcel, response actions are continuing under the MCP.

Southwest: Prior to the current use as an agricultural experiment station and a Girl Scout camp, the property parcels to the southwest were farmland or undeveloped. The Girl Scouts acquired the land for the camp in 1923. The wetland area southwest of the Property parcel had an old calf barn, silos, ice house, and farmhouse and was acquired by the State of Massachusetts (date not determined) and used as part of an agricultural experiment station. The wetland parcel is currently an active

MassDEP release site. Fly ash was applied to the wetland as part of an experiment conducted by EPA, MassDEP, and the City of Waltham in 1978.

Northwest: Prior to the current use as college campus, a municipal park, and F.C. Murphy Record Center, the property to the northwest was undeveloped land. The Murphy General Hospital (originally an Army hospital) was constructed between 1938 and 1946. It closed in 1958. The buildings remained occupied until the mid-to late 1990s when much of the land was acquired by Bentley College (for use as dormitories) and the City of Waltham (as recreation fields and for a new high school). The F.C. Murphy Federal Records Center was built some time between 1956 and 1971.

Off-site historical RECs include the former Shell Product Distribution Plant at 313 Waverley Oaks Road. Active off-site RECs include the Duffy Brothers Construction property (a.k.a. Duffy Brothers Construction, Inc.) at 411 Waverley Oaks Road; the UMASS parcel occupied by the fly-ash impacted wetlands at 225-227 Beaver Street; and the area south of the boiler room at the Former Heating Plant at 333 Forest Street.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

The site reconnaissance for the Property was completed by Gretchen Fodor on June 30, July 1, and July 13, 2009. Mr. Paul Bermingham, Director of Campus Safety, provided access to and accompanied Ms. Fodor through the Property. Paul Bermingham has worked at FDC for approximately 31 years. TechLaw notes that the work scope for this ESA did not include accessing building interiors, presumably because they have been accessed by other DCAM contractors as part of a building assessment survey. As such, TechLaw's observations are limited to exterior areas of the Property.

Limiting conditions specifically pertaining to this ESA include:

- Only exterior environmental conditions were surveyed as since building interiors were not accessed (due to work scope limitations);
- Municipal file review information was very limited because the City of Waltham does not have jurisdiction over state property, except for certain functions (such as Fire Department records where the Waltham Fire Department provides response services);
- Although most exterior areas of the Property were observed by foot and vehicle, steep hillside grades, densely vegetated woodlands, and wetlands are present near most of the Property lines. Therefore, not all areas on the 195-acre Property were accessible for viewing.
- Observations made by TechLaw were typically based on an inspection of each building's perimeter, where it was possible to do so. Notable exceptions to the building perimeter inspection included the Maintenance complex and Farm and Grounds Department where dense woodland and excessive shrubbery made it impossible to observe all side of the buildings; and
- Many building perimeters, particularly for unsafe and/or condemned buildings which are fenced off and locked due to safety concerns, are heavily covered with vegetation (e.g., landscaping, vines, brush, trees, and poison ivy). As a result, not all features of potential concern (such as UST fill and vent pipes) may have been identified on the Property.

RECs identified as part of this ESA are based on observed exterior environmental conditions and/or information provided by a review of historical files.

6.2 General Site Setting

The Property is comprised of an irregularly-shaped parcel approximately 195 acres in size and was designed as a full service campus for serving the needs of developmentally delayed children and adults. Currently, the Property is developed with approximately 71 buildings, not including sheds. The structures were constructed between the mid-1800s and 1993, and construction building materials vary depending on the function of the structure and date of construction. Many of the FDC's older institutional structures are primarily constructed of brick and mortar and have gable

rooflines, while newer residential structures have manufactured siding on exterior walls and flat roofs. Many buildings have been or are being vacated as part of the closure of the FDC.

Most administrative and functional buildings are centrally located on the Property while perimeter areas tend to be residential. The physical plant area located on the southernmost portion of the Property includes the Power Plant, workshops at the Maintenance building, the Farm and Grounds Department, and the Main Transformer and is accessed from Waverley Oaks Road. The Property buildings are connected by asphalt and concrete paved private roads, driveways, and parking lots. The main entrance to the FDC is from Trapelo Road north of the Property. The service entrance to the FDC is from Waverley Oaks Road, located on the southeast side of the Property.

Electricity to the Property is provided by NSTAR. The main water and sewer lines serving most of the FDC buildings connect with Property water and sewer mains at the southern portion of the Property. Water and sewer are provided to the Property by the Massachusetts Water Resources Authority (MWRA). TechLaw notes that the former residential buildings on the Property on Trapelo Road are connected to the Waltham water distribution and sewer collection systems. The MWRA also provides the City of Waltham with water and sewer service. The Power Plant, located near the southwestern property line, supplies steam heat to the majority of the campus on a year round basis. The Power Plant uses No. 6 fuel oil to generate steam. Buildings that are not on the underground steam distribution system use No. 2 fuel oil, natural gas, or propane for heat. A system of catch basins and drainage swales discharge storm water that collects on the Property toward retention basins, Clematis Brook, or the wetland area near the Power Plant. A small unnamed brook has remnants on the Property, and flows past the Power Plant and discharges to the wetland area.

6.3 Environmental Conditions

As part of TechLaw's site inspection, environmental conditions were observed at the Property to assess whether potential RECs are present. The Property was evaluated for potential RECs related to the following environmental conditions:

6.3.1 Solid Waste Disposal

According to Paul Bermingham, Waste Management, Inc. (WMI) collects solid waste on the Property daily from dumpsters located near Property buildings. No obvious indication of hazardous waste disposal was observed in the dumpster areas.

6.3.2 Surface Water Drainage

Storm water flows directly into swales or is collected by catch basins in paved areas and diverted to drainage swales and ultimately flows into wetlands, nearby ponds, detention basins, or streams. A small unnamed stream once flowed from the northwest portion of the Property to the southeast portion of the Property; a segment of this stream remains west of the Power Plant and was observed during the site reconnaissance to be running clear, without evidence of sheens. Paul Bermingham was not aware if catch basins on the Property were equipped with oil/water separators or whether any storm water treatment units were present on the Property.

6.3.3 Wells and Cisterns

TechLaw observed no potable or irrigation wells or cisterns on the Property. One stick-up monitoring well and several flush mounted monitoring wells observed in the vicinity of the Malone Park residential complex (Buildings ICF 21 and ICF 23). TechLaw did not observe any of the monitoring wells located in the paved parking area adjacent to the Farm and Grounds Department; these wells had been installed when the gasoline USTs were removed from the area and may have been paved over after MCP response actions were completed. Several downgradient monitoring wells are also present on the hillside south of the Power Plant USTs, and monitoring wells may remain inside the Power Plant but were not viewed as part of this ESA.

6.3.4 Wastewater

No indications of industrial wastewater disposal or treatment facilities were observed during the onsite reconnaissance. Paul Bermingham indicated that all sanitary discharges on the Property are diverted to the MWRA collection system, and he was not aware of any buildings which may have septic systems. He stated that sewage from FDC buildings flows by gravity through the FDC sewer mains down to the MWRA sewer connection near the Farm and Grounds Department. TechLaw notes that for the old Trapelo Road residences which are part of the FDC complex (at 180, 282, and 338 Trapelo Road), the City of Waltham Engineering Department confirmed that they had inactive water and sewer connections. TechLaw did not observe evidence of any septic vent pipes on the Property.

6.3.5 Additional Site Observations

TechLaw observed a marker post for an oil pipeline operated by Exxon on the north side of Malone Park Drive, west of the Greene Unit and east of ICF 24. TechLaw contacted Mr. Allen Wiggin (DCAM) for additional information on the pipeline. Mr. Wiggin provided information related to a 30-foot wide easement which runs through the western and southern portions of the Property. These documents are included in Exhibit D-2. The easement was originally granted to Colonial Beacon Oil Company during the mid-1940s by the Commonwealth of Massachusetts for installation of two pipelines (4 inches and 6 inches in diameter) “for the conveyance of petroleum and the products or by-products thereof...” Exxon Mobil Corporation subsequently acquired the easement. Exhibit A of the *Commonwealth License to Occupy State-Owned Real Property* (License Agreement) indicates that the pipeline enters the western portion of the Property from Trapelo Road and travels south-southwest, crosses Malone Park Drive, then continues south-southwest into the Girl Scout Camp property, and then turns southeast where it intersects Waverley Oaks Road. The Lease Agreement is for use of the pipeline easement for conveyance of fiber optic cables. TechLaw was informed that the pipeline was abandoned. Exhibit A specifies that Segments 2, 3, 4 and 6 are located on FDC property. Two plans depict a portion of the easement locations on the Property. One plan incorrectly depicts the pipeline segment location near Wheatley Hall (which is actually Seguin Hall) and the southern property line. “Pierce Brothers” and “Shell Oil Co.” are noted on the southeast side of Waverley Oaks Road. The other mapped segment shows the pipeline easement on the east side of the pond on the Girl Scout camp property. Based upon the pipeline’s projected age (perhaps up to 65

years old) and the unknown condition of the pipeline, TechLaw considers the presence of the pipeline on the Property to be a REC.

TechLaw also noted areas with discarded debris on the Property. Building materials, hoses, a ladder, and tires were present in a pile on the north side of the Farm and Grounds Building. A discarded AST and tires were present adjacent to the waste oil berm in front of the Garage.

6.3.6 Hazardous Materials and Petroleum Products Used or Stored at the Site

The Shriver Center was identified on the EDR report as a RCRA SQG which generates small quantities of hazardous waste. TechLaw notes that although Tufts Dental operates on the Property (currently in the Withington Building) and hospitals, clinics, or infirmaries have operated or continue to operate on the Property (in the Thom Building), these entities do not appear as generators of hazardous waste on the database report. No evidence of the use of hazardous materials or storage areas for hazardous wastes was observed on exterior portions of the Property during TechLaw's site reconnaissance. However, TechLaw would expect that the past or present use of x-ray photographic developing equipment would generate silver-bearing and photographic waste streams and medical waste streams as part of routine clinic operations. TechLaw would, therefore, expect that these clinics could potentially be listed as RCRA generators.

Hazardous materials used for heating purposes include propane and natural gas. Propane is stored in a large tank behind the Farm and Grounds Department building and is used to heat the building. A couple of small propane tanks were observed adjacent to the Steam Plant boiler room, and are reportedly used to light the boiler pilot lights in the event of a power outage. Gas grill sized propane tanks were observed in some areas of the Property. Natural gas heat is piped to the following FDC buildings: the Day Care Center at 338 Trapelo Road, Cottages 19 and 20, and Hillside.

With the exception of used motor oil, petroleum products used or stored on the Property are for consumptive use. Paul Birmingham stated that used motor oil is shipped off-site for disposal by a contractor, and that the FDC sends its vehicles off-site for repair. Petroleum products used and stored at the Property include No. 6 fuel oil, No. 2 fuel oil, diesel fuel, and waste oil. General storage locations include:

- No. 2 and No. 6 fuel oil are stored in USTs or ASTs in various locations on the Property for use in oil-fired boilers which provide heat to campus buildings. High-pressure steam is generated using No. 6 fuel oil by the Power Plant, and subsequently distributed to heat the majority of campus buildings. No. 2 fuel oil is stored in USTs at Site 5, Site 7, and the new Activity Center which are all in the northwestern corner of the Property near the Cottage Complex. TechLaw notes that high pressure steam is converted to hot water and the forced hot water is piped underground to heat Cottages 3 through 13, Woodside, and Brookside. No. 2 fuel oil is stored in ASTs and used for heating the following buildings: ICF 21 through ICF 24, the Day Care at 180 Trapelo Road, the former Volunteer Center (282 Trapelo Road), and Cottages 17 and 18.
- Diesel fuel used to power an electrical generator is stored in a UST at the Shriver Center and in ASTs at the Thom Building, Howe Hall, Farrell Hall, Greene Unit,

Wallace Building, Seguin Hall, Cottage 11, and the Pearlman Building. The vent and fill pipes for a second diesel AST inside Farrell Hall (identified as “A16” on the SPCC Facility Site Plan) were not found during TechLaw’s site reconnaissance; exterior walls of the building were noted to be heavily covered with vines and vegetation, possibly obscuring the fill and vent piping for this AST. TechLaw notes that diesel fuel is also stored in three 55-gallon drums in the Farm and Grounds Department building for use as a fuel for tractors and other heavy machinery used on site. A 275-gallon AST present inside this building was empty; based on Table 1 of the SPCC Plan, it may have been used for storage of diesel fuel in the past, although on-site grounds staff indicated that it previously stored No. 2 fuel oil (for heating the building).

- Used motor oil is stored in two 275-gallon ASTs and two 55-gallon drums within a secondary containment structure at the FDC Garage.

6.3.7 Unlabeled Containers and Drums

TechLaw did not have access into site buildings. However labeled drums of diesel fuel were observed through the open door inside the Farm and Grounds Department building. Except for the drums of waste oil in the secondary containment shed outside the Garage, drum storage areas were not observed outside of FDC buildings.

TechLaw observed a rusted out 55-gallon drum within the fenced enclosure outside of Waverley Hall and a discarded, rusty 55-gallon drum behind the Garage. No other unlabeled containers or drums were observed during the site reconnaissance.

6.3.8 Disposal Locations of Regulated/ Hazardous Waste

The Shriver Center is operated as part of the University of Massachusetts Medical Center independently of FDC and is a RCRA SQG. No disposal information was available for review for the Shriver Center other than the EDR report.

According to Paul Bermingham, waste oil collected at the Garage is disposed off-site by a licensed disposal company. No other obvious indications of hazardous waste generation, storage, or disposal were observed on the Property or were indicated during interviews.

TechLaw notes that the on-site medical and dental facilities may generate small quantities of hazardous waste as part of these services. These waste streams may include medical waste, x-ray photographic processing wastes containing silver, and mercury-bearing wastes from amalgam used in dental care. Other than the Shriver Center, the EDR report did not list any other RCRA generators operating on the Property.

TechLaw noted that several discarded computer monitors and other solid waste were outside the Volunteer Center building at 282 Trapelo Road. If broken, computer monitors can release hazardous materials (i.e., heavy metals such lead) into soil. Other solid waste disposal areas observed during the site reconnaissance included the hillside area behind the Garage where tires, automotive parts, and other debris was discarded. TechLaw considers these discarded materials to be a de minimis condition.

6.3.9 Evidence of Releases

No obvious indication of hazardous material or petroleum product releases, such as stained areas or stressed vegetation, was observed outside Property buildings during the site reconnaissance. Paul Bermingham indicated that an incident occurred at FDC many years ago involving a drum that was illegally dumped on the Property by someone from off site; this information was confirmed in a spill listing involving a drum in the EDR report.

6.3.10 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain polychlorinated biphenyls (PCBs) at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by U.S. EPA regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified:

- Less than 50 parts per million (ppm) of PCBs – *“Non-PCB” transformer*
- 50 ppm - 500 ppm – *“PCB-Contaminated” electrical equipment*
- Greater than 500 ppm – *“PCB” transformer*

TechLaw observed nearly all of the pole-mounted or pad-mounted oil-filled transformers at the locations noted on the FDC SPCC Facility Site Plan. Access was not provided to transformers or other electrical equipment located inside Transformer vaults/buildings (such as in Building 14) or within fenced enclosures (Building 55). Transformers associated with Kelley Hall (T82-T86) were not observed, and may be located either inside the building or may have been removed after the building was closed and boarded up. The transformer location adjacent to the Chapel (T2) is actually located on a utility pole on the southeast side of the Chapel rather than the northeast side as shown on the SPCC Facility Site Plan. TechLaw also did not observe the pole-mounted transformed closest to Cottage 18 (T7) due to excessive vegetation; it may be located in the densely wooded area between Cottages 18 and 20. Access was also not provided into the high voltage switchgear enclosure northwest of the Power Plant and north of Chapel Street which is identified by a sign as “NSTAR STA436.” TechLaw presumes that the equipment within this enclosure is owned and operated by NSTAR.

TechLaw observed that most of the transformers on the Property were labeled with “Non-PCB” labels adhered to the exterior of the transformer. Paul Bermingham stated that most of the transformers on the Property are state owned, and that historically when transformers on the Property leaked, they were repaired or replaced in order to phase out use of PCB transformers on the Property.

Signage indicating the presence of PCBs was noted in the following locations: Exterior transformers in the Building 55 fenced enclosure. Other areas not accessed as part of this assessment but potentially containing PCB oils includes the electrical vault inside the Thom Building (in the room beneath the rear loading dock) and in the switchgear and/or electrical vaults inside the Power Plant. Old electrical equipment containing PCB oil may be used if the equipment is operating properly without leakage. PCBs present in electrical

equipment on the Property are considered a de minimis condition since none of the containers appeared to be leaking.

6.3.11 Landfills

No evidence of on-site landfills was observed or reported during the site reconnaissance, and no evidence of historic landfills on the Property was revealed by the file review.

6.3.12 Pits, Ponds, Lagoons, Sumps, and Catch Basins

TechLaw observed a detention pond north of the Cottage Complex located on the northern corner of the Property. A low-lying wetland is located on the northwest side of the Pearlman building; no standing water was observed in this wetland although wetland vegetation was observed present and the wetland area was surrounded by chain-link fencing. The Site Orthographic Photo (Figure 3) and the FDC Site Plan (Figure 3) also show that a portion of the wetland along the south-southwestern side of the Property encroaches onto the southernmost portion of the Property. In addition, a natural pond is located on the Girl Scout property parcel adjacent to the Property; storm water runoff in this portion of the Property flows toward the pond on the Girl Scout property.

No evidence of on-site pits or lagoons was observed or reported during the site reconnaissance. Catch basins on the Property are used to drain storm water from roadways and parking lots. No sumps were observed as part of this assessment. Catch basins and ponds on the Property are not considered an environmental concern.

6.3.13 On-Site ASTs and USTs

TechLaw observed evidence of ASTs and USTs in use at the Property during the Site reconnaissance. Tank information provided in the tables below was obtained from the SPCC Plan. Sizes and construction of tanks located underground or inside buildings could not be verified. Dates of installation could not be confirmed since Fire Department records were not sufficiently detailed to confirm installation dates. The presence of fill and vent pipes was used as an indicator that tanks listed in the SPCC plan remained on site. TechLaw was not able to verify that following ASTs on the Property.

**Table 6-1
ASTs Not Confirmed Present at Fernald Developmental Center**

SPCC Tank #	Location	In (I) or Out (O)	Type	Volume (gals)	Product	Installed	Use
16A	Farrell Hall north wing	I	Steel	30	Diesel	1980	Generator
17A	Cottage 17	I	Steel	275	No. 2 fuel	1975	Heat
18A	Cottage 18	I	Steel	275	No. 2 fuel	1975	Heat

I – Inside building
O – Outside building

**Table 6-2
USTs and ASTs Confirmed Present at Fernald Developmental Center**

SPCC Tank #	Location	In (I) or Out (O)	Type	Volume (gals)	Product	Installed	Use
USTs							
1U	Shriver Center	O	Steel	750	Diesel	1970	Generator
2U*	Power Plant	O	UNK	2 x 20,000	No. 6 oil	c. 1996	Heat
6U	Site 5	O	Fiberglass	10,000	No. 2 oil	1984	Heat
5U	Site 7	O	Fiberglass	10,000	No. 2 oil	1984	Heat
7U	Training/Activities Center	O	Fiberglass	4,000	No. 2 oil	1981	Heat
ASTs							
NA	Power Plant	O	Steel	UNK	Propane	UNK	Pilot light
NA	Thom Bldg	O	Steel	UNK	Propane	UNK	Generator
1A	Thom Bldg	I	Steel	275	Diesel	1999-2001	Not used
2A	Howe Hall	I	Steel	275	Diesel	1999-2001	Generator
3A	Farrell Hall	O	Steel	1,000	Diesel	1999-2001	Generator
4A	Greene Unit	O	Steel	275	Diesel	1999-2001	Generator
5A	ICF 21	O	Steel	330	No. 2 oil	1999-2001	Heat
6A	ICF 22	O	Steel	330	No. 2 oil	1999-2001	Heat
7A	ICF 23	O	Steel	330	No. 2 oil	1999-2001	Heat
8A	ICF 24	O	Steel	330	No. 2 oil	1999-2001	Heat
9A	Farm & Grounds	I	Steel	275	Empty	1975	Not used
10A	Day Care (180 Trapelo Rd)	I	Steel	275	No. 2 oil	1975	Heat
11A	Volunteer Center (282 Trapelo Rd)	I	Steel	2 x 275	No. 2 oil	1975	Heat
12A	Wallace Bldg	O	Steel	100	Diesel	1984	Generator
13A	Seguin Hall	O	Steel	100	Diesel	1984	Generator
14A	Cottage 11	O	Steel	85	Diesel	1995	Generator
15A	Pearlman	I	Steel	5,000	Diesel	1992	Generator
19A	Garage	O	Steel	2 x 275	Lube oil	1980	Disposal

* - Tank location for new USTs is the same as for removed USTs 2U, 3U, and 4U
 I – Inside building
 ICF – Intermediate Care Facility
 NA – Not applicable
 O – Outside building
 UNK - Unknown

TechLaw notes that current Power Plant personnel stated that the three tanks referenced in the SPCC Plan were removed and replaced about 15 years ago with two 20,000-gallon double walled USTs. The tank sensors which monitor product levels and interstitial space between tanks are reported to no longer work properly. Tank product levels are measured by stick.

Based on the absence of visible fill and vent piping on the outside of the buildings, TechLaw was not able to confirm that the following ASTs listed in the SPCC plan remain on the Property:

The 750-gallon UST at the Shriver Center was installed in 1970. Based upon its age and steel construction, it is likely that the tank shell has been weakened over its 39-year lifetime. TechLaw considers this tank, which the SPCC plan notes as having no corrosion protection or secondary containment, to be an REC.

ASTs located the two former residential buildings at 180 and 282 Trapelo Road and the ASTs that may remain in Cottages 17 and 18 were installed during the 1970s. The condition and amount of oil present in the tanks is unknown, and the unoccupied buildings were observed to be in poor condition. These ASTs are considered an REC based upon their age and the condition of the buildings.

6.3.14 Radiological Hazards

Radiological equipment is reported to be in use in the Shriver Center, and is also presumed to be used for dental x-rays by Tufts Dental which is currently located in the Withington Building. Other x-ray equipment may currently be present or have historically been present in buildings used as medical facilities (most notably the Thom Building). Historical information indicates that x-ray equipment was first used at the Property in the 1920s.

TechLaw notes that during the 1940s and early 1950s, Harvard and MIT researchers dosed oatmeal with radioactive isotopes of calcium and iron that was fed to a select population of FDC boys as part of an experiment on human health effects of radiation exposure. Blood and stool samples were collected for radioactive analysis. Although no documentation was obtained during the historical file review for this ESA, TechLaw suspects that medical buildings present at that time or the Southard Laboratory could have been used to store radioactive chemicals and/or conduct the analyses. According to Paul Bermingham, the Southard Laboratory was the original FDC medical lab where autopsies and medical research on the brain was conducted. In addition, Sanborn Maps identify a dental lab at Southard Laboratory.

Since the Property buildings were connected to the municipal sewer in the years prior to the oatmeal experiment and no information was obtained indicating that a release of radioactive materials has impacted the Property, radioactive contamination is not likely a current environmental concern in exterior portions of the Property.

6.3.15 Drinking Water

The Property is connected to the MWRA water supply which receives its water supply from the Quabbin Reservoir in central Massachusetts. No potable wells are known to be present

on the Property, and drinking water wells are not present within a one-mile radius of the surrounding Property. Water sampling was not conducted at the site to verify water quality. Drinking water quality is not an environmental concern.

6.3.16 Asbestos

Asbestos is not typically evaluated as part of an ASTM scope of work unless specifically required. However, the MCP is developing regulations for asbestos in soil, and since damaged material was observed that is exposed to weather, TechLaw is noting it herein.

TechLaw observed thermal system insulation (TSI) that is presumed to contain asbestos in the form of pipe wrap on various locations of the Property. Asbestos is likely to be present and has the potential to be released to air, soil, and water. As shown on historical Sanborn Maps, steam pipe tunnels are located throughout the Property and transport steam to most of the Property buildings. Redevelopment of the property would require removal of steam piping between buildings; this process would require asbestos abatement prior to removal.

TechLaw observed TSI in fair to poor condition which is exposed to ambient conditions in several locations on the Property:

- Generator vent piping on the northeast side of Howe Hall,
- Steam pipe in a venting structure adjacent to the Store Room, and
- Piping on underside of overhead metal decking outside the northwest wall of the Power Plant between the smokestack and UST location.

The poor condition of the TSI coupled with erosion due to wind and rain would disperse asbestos. TechLaw considers that TSI in poor condition and subject to dispersion by weather to be a REC. TechLaw also notes that asbestos siding is present on the former Volunteer Center (282 Trapelo Road) and the former Day Care (180 Trapelo Road).

7.0 INTERVIEWS

7.1 Interviews with Owner

The Commonwealth of Massachusetts owns the Property. Mr. Paul Bermingham, FDC Director of Safety, was assigned as the primary point of contact for the operations at FDC, and was interviewed by TechLaw as part of this ESA. Mr. Bermingham escorted TechLaw through the Property and answered questions. Information obtained from Mr. Bermingham has been incorporated into Section 6 of this report.

7.2 Interviews with Local Governmental Officials

On June 3, 2009, TechLaw contacted MassDEP to schedule a file review for the purpose of obtaining information regarding historic and current RECs on the Property. TechLaw conducted the file review at the MassDEP Northeast Regional Office (NERO) on June 11, 2009, and subsequently reviewed pertinent files related to the Property. On July 24, 2009, TechLaw obtained information from Mr. Ethan Gould (MassDEP NERO) and Mr. Chris Coolen (MassDEP NERO) related to on-site and off-site RTNs. These records are included in Appendix C and the information is incorporated into Section 5.2.

On June 4, 2009, TechLaw contacted the Waltham Fire Department by telephone in order to inquire about UST and ASTs located on the Property. On June 5, 2009, TechLaw visited the Waltham Fire Department and submitted a “21E” request form for the Property. TechLaw received a response from the Waltham Fire Department on July 23, 2009 (see Exhibit C-14). This information is incorporated into Section 5.1.

On June 8 and June 11, 2009, TechLaw visited the archivist at the Waltham Public Library to obtain information regarding the historical use of the Property. TechLaw reviewed and collected documents pertaining to the history of FDC. This file material is included in Exhibit B-6 and the information is incorporated into Section 5.5.

During the course of this ESA, TechLaw obtained zoning information for the Property from the Town of Waltham GIS website which indicated that the Property is zoned for “Conservation/Recreation” use. TechLaw also obtained a detailed site plan of the Property from Mr. Eric Rizzo of the City of Waltham MIS Department. TechLaw has identified the Property buildings on the site plan provided by Mr. Rizzo for the ESA.

On June 8, 2009, TechLaw visited the City of Waltham Public Health Department to obtain documents relating to potential RECs at the Property. These records are located in Exhibit C-14 and the information is incorporated into Section 5.1.

On June 8 and July 13, 2009, TechLaw visited the City of Waltham Assessors Department and Engineering Department to obtain information pertaining to the Property. These records are included in Exhibit C-14.

8.0 FINDINGS AND OPINION

TechLaw has identified known or suspected environmental conditions associated with the Property or nearby Properties. These environmental conditions include RECs, historical RECs, and/or de minimis conditions.

8.1 On-Site RECs

An oil pipeline easement traverses the western and southern portions of the Property. Two oil pipes were installed in the easement during the mid-1940s by Colonial Beacon Oil Company. The pipeline was subsequently acquired by Exxon Mobil Corporation. The oil pipeline was reportedly abandoned, and a lease agreement was executed for use of the easement for conveyance of fiber optic cables. The oil pipeline is considered an REC considering its age (approximately 65 years old) and absence of information regarding its subsurface condition and integrity.

Thermal pipe insulation was observed on steam pipes and other piping that is exposed to weather on the Property. Because of its presumed age, the thermal pipe insulation likely contains asbestos, and was observed to be in fair to poor condition. Exposed thermal insulation was observed in three locations including (1) on steam pipes in an open venting structure adjacent to the Store Room, (2) pipes on the underside of an open metal deck outside the northwest wall of the Power Plant, and (3) on a generator exhaust pipe located on the northeast wall of Howe Hall. Asbestos siding is also noted present on the former Volunteer Center (282 Trapelo Road) and the former Day Care (180 Trapelo Road).

The 750-gallon diesel UST at the Shriver Center was installed in 1970. Based upon its age and steel construction, it is probable that the tank has been weakened since it was installed. The tank was not equipped with corrosion protection or secondary containment. This UST is considered an REC based upon its age and absence of corrosion protection.

Petroleum-contaminated soil is present in the vicinity of the Power Plant on the Property resulting from historical releases of No. 6 fuel oil. An AUL has been implemented for an approximately 0.4-acre parcel which is partially located under the Power Plant's building footprint and partially south of the Power Plant. Under a potential redevelopment scenario involving demolition of the Power Plant, petroleum-contaminated soil could become exposed. The MA RELEASE is related to two linked RTNs. RTN 3-0010367, the "parent" RTN, is listed with a status of "Class C RAO" and is linked with "daughter" RTN 3-0013467, which is listed with a status of a "Class A-3 RAO."

ASTs located the two former residential buildings at 180 and 282 Trapelo Road and the ASTs that may remain in Cottages 17 and 18 were installed during the 1970s. The condition and amount of oil present in the tanks is unknown, and the unoccupied buildings were observed to be

in poor condition. These ASTs are considered an REC based upon their age and the condition of the buildings.

8.2 Off-Site RECs

Two off-site RECs were identified which have potential to impact the Property, based on their proximity and/or upgradient location relative to the Property.

The **Waltham Federal Center** "disposal site" at 424 Trapelo Road is located adjacent to the northwest side of the Property. A "separate phase oil" plume is present on a portion of the adjacent parcel, and the release listed under two apparently linked RTNs (RTN 3-6013 and RTN 3-17581) under the name "Waltham Federal Center." TechLaw reviewed a site plan presented which shows the approximate extent of "separate phase oil" which was released from the former USTs at the boiler plant at that site. The leading edge of the separate phase oil plume is shown to be within 25 feet of the Subject Property and appears to be progressing down the hillside slope toward the Subject Property. Based on this information, TechLaw considers this release an off-site REC that has potential to impact the Subject Property. The current status of the "disposal site" is listed as Class C RAO which indicates that a temporary solution has been achieved but response actions have not yet achieved a condition of "no significant risk." The Malone Park Drive residences (ICF 21- ICF 24) are located downgradient of the advancing plume.

The **UMASS** parcel at 225-227 Beaver Street is located adjacent to the southern portion of the Property and is identified as a MA RELEASE disposal site under RTN 3-28049. The parcel is owned by the Commonwealth of Massachusetts and occupied by UMASS Amherst Agricultural School. The parcel was contaminated with cadmium, chromium, and lead at levels exceeding MCP Reportable Concentrations. The wetlands on the UMASS parcel was used in 1978 as part of the Phoenix Project, and contaminated by application of fly-ash residue containing heavy metals. Negotiations are currently on-going to determine whether an AUL could be applied to the "disposal site" in lieu of excavation of the wetland area as part of site closure under the MCP. At the time of the writing of this report, TechLaw was unable to obtain information on the exact location and boundary of the wetland test parcel, and extent of contamination. Since the wetland on the Subject Property and the wetland that the UMASS parcel occupies are contiguous, it is possible that heavy metals could have been transported by wind or water and deposited on the Subject Property.

8.3 Previously Resolved On-Site RECs

Based on the results of this assessment, eight historical RECs for the Property are currently not considered an environmental concern. The eight reported MA RELEASES for the Property have been assessed and remediated under the MCP and have a Class A or Class B RAO status.

Power Plant - RTN 3-0011878 and 3-0015442 (MA RELEASE and SHWS):

These two incidents involved No. 6 fuel oil releases at the Power Plant which were due to overfilling or overflowing of the USTs. Oil impacted the nearby brook and soil, sediment, and

recovered product and oil-impacted debris were removed as part of MCP response actions. The status listed by MassDEP for these releases are a Class A-1 and a Class A-2 RAO, respectively.

Power Plant - RTN 3-0015149 (MA RELEASE and LUST):

During closure of a gasoline UST at the Power Plant, a soil headspace reading exceeded the MCP reporting notification threshold. After the tank and soil was removed from the tank grave, soil confirmation samples were collected and analyzed for gasoline constituents. Since none of the soil concentrations exceeded regulatory standards, and the site was "closed" with a Class B-1 RAO.

Farm and Grounds Department - RTN 3-0010725 (MA RELEASE and LUST):

After gasoline USTs and a gas pump were removed from the Farm and Grounds Department parking lot, gasoline constituents were detected in soil and groundwater above regulatory levels. Response actions were completed, the site was "closed" with a Class A-2 RAO.

Malone Park Residences - RTN 3-0021892 and 3-0021893 (MA RELEASE and LUST):

Fuel oil contaminated soil and/or groundwater were discovered during closure of the USTs located adjacent to Malone Park residences. After response actions were completed, these two sites were "closed" with a Class A-2 RAO.

Thom Building – RTN 3-0021380 (MA RELEASE):

Approximately 12 gallons of diesel fuel were released by a malfunctioning pump associated with a generator in the building, and flowed out the doorway onto the ground. After response actions were completed, the site was "closed" with a Class A-1 RAO.

Various locations at 200 Trapelo Road – RTN 3-0015121 (MA RELEASE and SHWS):

Up to 40 gallons of diesel fuel were released on the FDC campus after a van punctured a fuel tank. Three parking lot locations on the Property were impacted including the Fernald Workshops (Site 7), the Shriver Center, and East/Dowling Hall and well as the roadway between these buildings. After response actions were completed, the site was "closed" with a Class A-1 RAO.

8.4 Previously Resolved Off-Site RECs

Previously resolved off-site RECs were identified for three parcels adjacent to the Property:

Former Shell Product Distribution Plant Oil at 313 Waverley Oaks Road:

Three releases are associated with this location including RTNs 3-0003078, 3-0018952, and 3-0020538. Contaminants of concern included PAH compounds, TPH, and metals due to releases of petroleum at the former tank farm. The site was "closed" with a Class A-3 RAO and implementation of an AUL to contain remaining contaminants.

Former Heating Plant at 333 Forest Street:

Response actions were completed for a release of asbestos and arsenic in soil listed under RTN 3-0022303. The former heating plant was located northwest of the Property and the site was

"closed" with a Class A-3 RAO and implementation of an AUL to contain remaining contaminants.

FC Murphy Federal Center at 424 Trapelo Road:

Response actions were completed for a release of PAHs listed under RTN 3-0018887. The site was "closed" with a Class A-2 RAO.

8.5 De Minimis Environmental Conditions

De minimis environmental conditions were identified or suspected in connection with the Property during the course of this assessment and include:

- Discarded computer monitors observed on the ground near the garage at the Volunteer Center.
- Discarded tires and automotive parts observed on the ground behind the FDC Garage and a discarded 275-gallon AST adjacent to the waste oil secondary containment berm in front of the Garage.
- Discarded building materials and debris in front of the Farm and Grounds Department building.
- PCB containing transformers and/or electrical equipment: Signs and labeling indicates that PCBs are present in transformers located in the transformer yard adjacent to Building 15. PCBs may also be present in other inaccessible locations on the Property including Building 14, a transformer building located between the North Building and the old Activities Center, the Main Transformer Pad, and electrical vaults located within various buildings (such as the Power Plant). No stains or leaks were observed from visible transformers in the Building 15 transformer yard and the Main Transformer Pad, but other areas containing electrical equipment was not accessible as part of the ESA. TechLaw notes that old electrical equipment containing PCB oil may be used if the equipment is operating properly without leakage.
- Coal Ash: Coal was historically stored and used to generate steam at the Power Plant and Belmont House. Although coal ash is considered exempt under the MCP, compounds or analytes present in coal ash (such as PAHs and metals) may be present in soil around these buildings. Compounds related to coal ash is exempt from notification to MADEP in accordance with 310 CMR40.0317(9) of the MCP.
- Herbicide and pesticide residues that may be present in the Greenhouse area.

9.0 CONCLUSIONS

TechLaw has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 for the Fernald Developmental Center located at 200 Trapelo Road in Waltham, Massachusetts. Any exceptions to or deletions from this practice are described in Section 6.1 of this report. This assessment has revealed no evidence of RECs in connection with the Property, except for the following:

- Soil contaminated with No. 6 fuel oil is present in an AUL area under and south of the Power Plant.
- A 65-year old oil pipeline easement exists on the Property whose condition is unknown.
- Thermal pipe insulation present on pipes in outdoor locations was observed to be in fair to poor condition; asbestos may be present in the pipes and able to be dispersed by wind and water. Asbestos siding is also noted present on the former Volunteer Center (282 Trapelo Road) and the former Day Care (180 Trapelo Road).
- A 39-year old 750-gallon diesel UST located at the Shriver Center is not equipped with corrosion protection and could release diesel fuel into the ground.
- No. 2 fuel oil ASTs located in four vacant residential buildings are at least 30 years old, and the buildings are in poor condition.
- An oil plume appears to be approaching the Property from an upgradient adjacent parcel on the northwest side of the Property.
- The wetland on the southern portion of the Property may have been impacted by heavy metals due to an agricultural experiment on the adjacent parcel.

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Printable Parcel Viewer Map, 271 Waverley Oaks Rd, July 24, 2009.
Printable Parcel Viewer Map, 411 Waverley Oaks Rd, July 24, 2009.
Printable Parcel Viewer Map, 425 Waverley Oaks Rd, July 24, 2009.
Printable Parcel Viewer Map, 225 Beaver St, July 24, 2009.
Printable Parcel Viewer Map, 265 Beaver St, July 24, 2009.
Printable Parcel Viewer Map, 135 Beaver St, July 24, 2009.
Printable Parcel Viewer Map, Forest St, July 24, 2009
Printable Parcel Viewer Map, 371 Forest St, July 24, 2009.
Printable Parcel Viewer Map, 333 Forest St, July 24, 2009.
Printable Parcel Viewer Map, 424 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 380 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 385 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 475 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 285 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 475 Trapelo Rd, July 24, 2009.
Printable Parcel Viewer Map, 258 Trapelo Rd, July 24, 2009.

MassGIS Datalayers

- *Assessors Parcels Datalayer. December 2007*
- *Bedrock Lithology Datalayer. January 2004.*
- *Surficial Geology Datalayer. December 2007.*
- *Title 5 Setback Areas Datalayer. January 2009.*
- *Transmission Lines Datalayer. March 2007.*
- *Zoning Datalayer. August 2007.*
- *Hydrography Datalayer. January 2009.*
- *MADEP Bureau of Waste Prevention Regulated Sites Datalayer.*
- *MassDEP Oil and/or Hazardous Material Sites with Activity and Use Limitations (AUL) Datalayer. February 2009.*
- *MassDEP Tier Classified Oil and/or Hazardous Material Sites (MGL c. 21E) Datalayer. February 2009.*
- *Non-Potential Drinking Water Source Areas Datalayer. June 2006.*

11.0 CERTIFICATION AND QUALIFICATIONS

The lead assessor/environmental professional for this Phase I report was Ms. Gretchen Fodor. Ms. Fodor earned a Bachelor of Science degree in Chemistry from St. Lawrence University and a Masters of Science in Environmental Studies from the University of Massachusetts – Lowell. She has over 20 years of experience as an environmental chemist and has completed approximately 200 ASTM Phase I ESAs since 2001. In addition, Ms. Fodor has completed five EPA Targeted Brownfields Site Assessments while working as a contractor to EPA Region I. A copy of Ms. Fodor's resume is included in Appendix 11.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Signature of Lead Assessor/Environmental Professional:

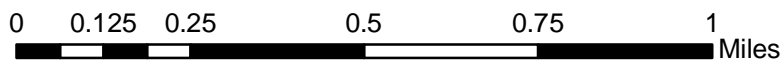
Date: October 22, 2009



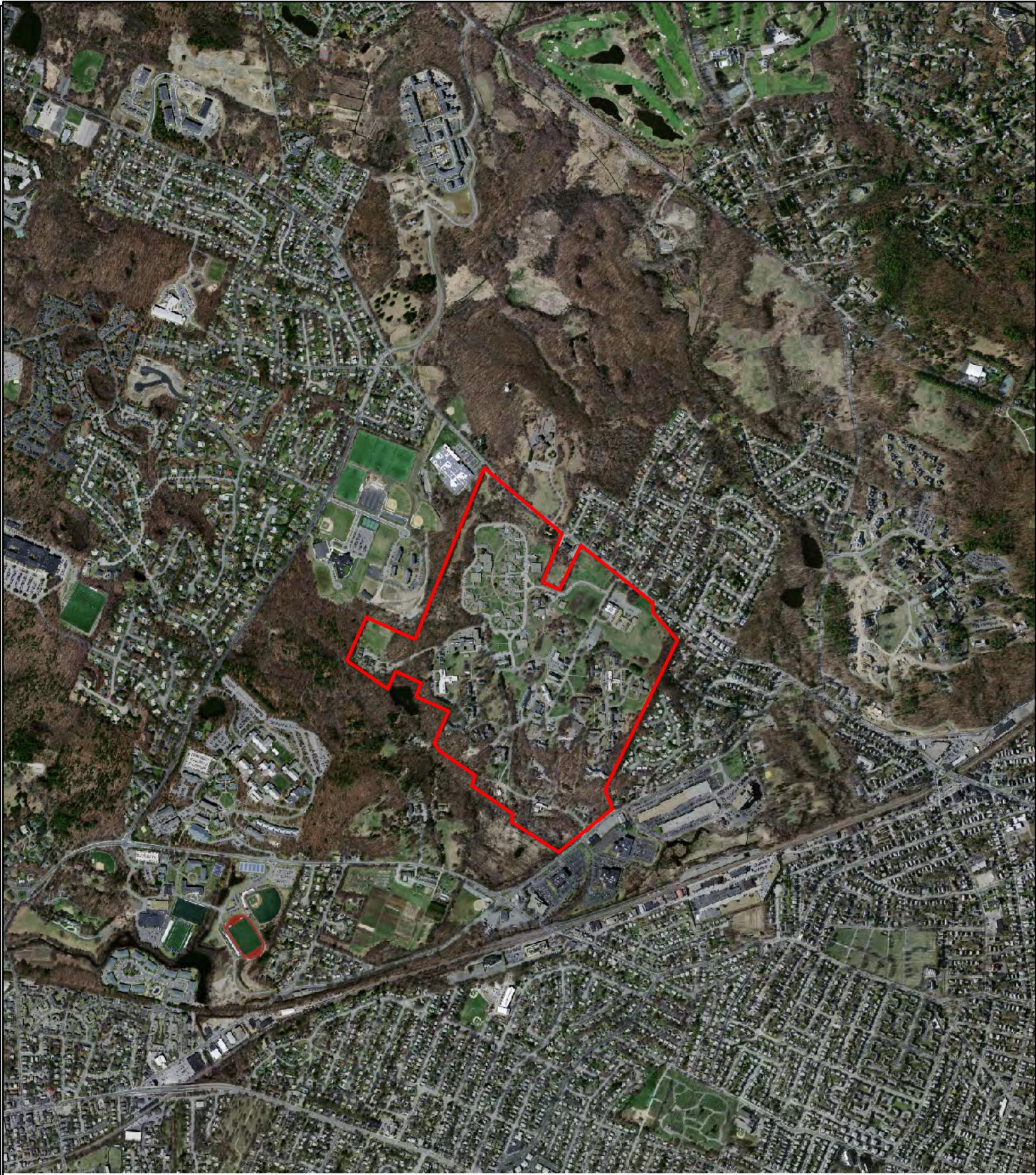
Legend

Fernald Development Center

Figure 1
Site Locus Plan
Fernald Development Center
200 Trapelo Road
Waltham, MA



Source: TerraServer



Legend

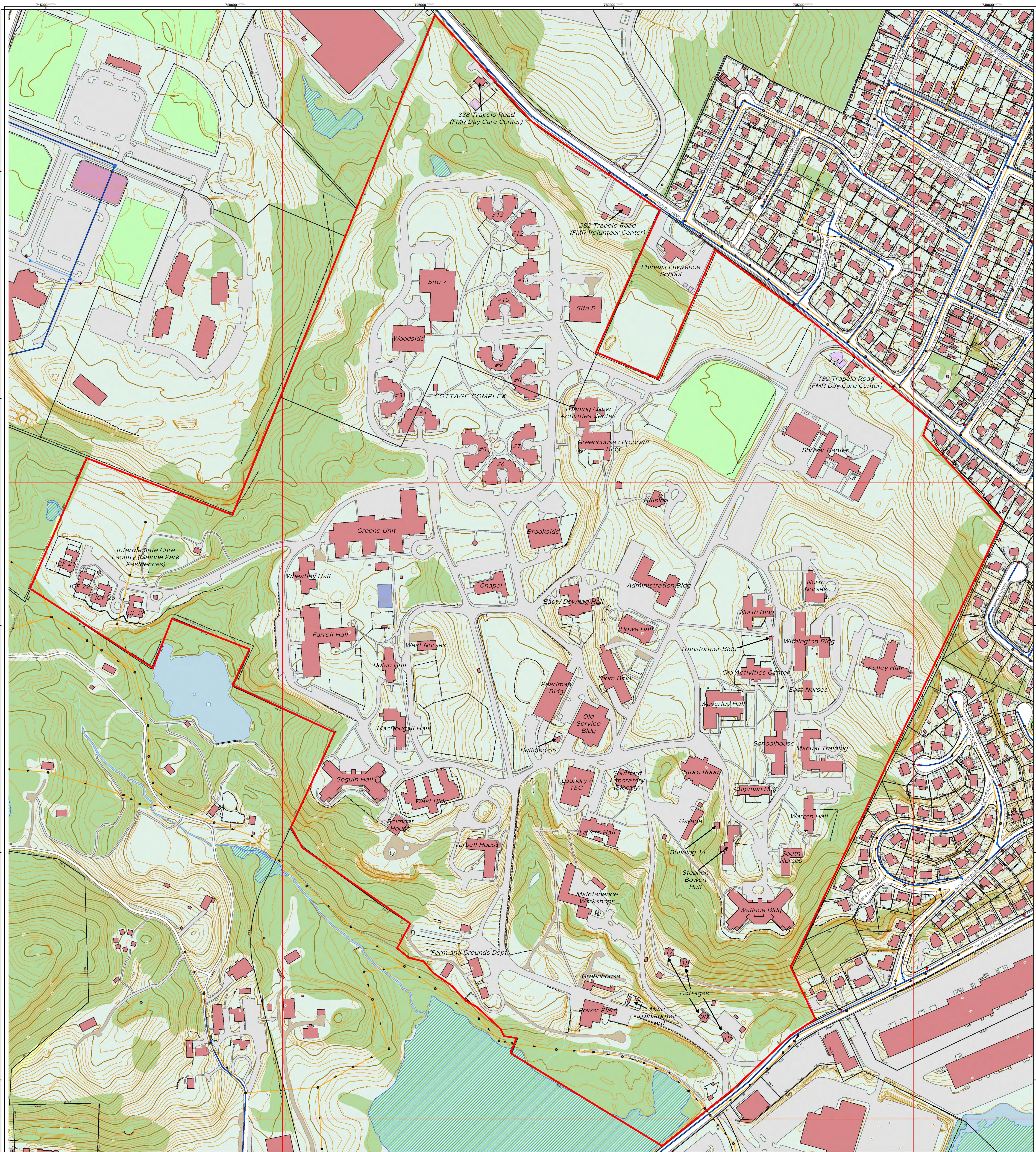
 Fernald Development Center

Figure 2
Site Orthographic Photograph
Fernald Development Center
200 Trapelo Road
Waltham, MA

0 0.125 0.25 0.5 0.75 1 Miles



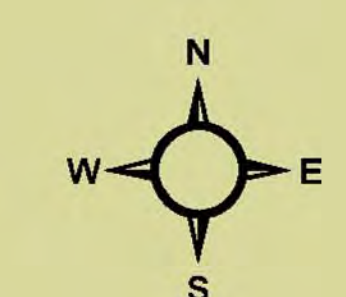
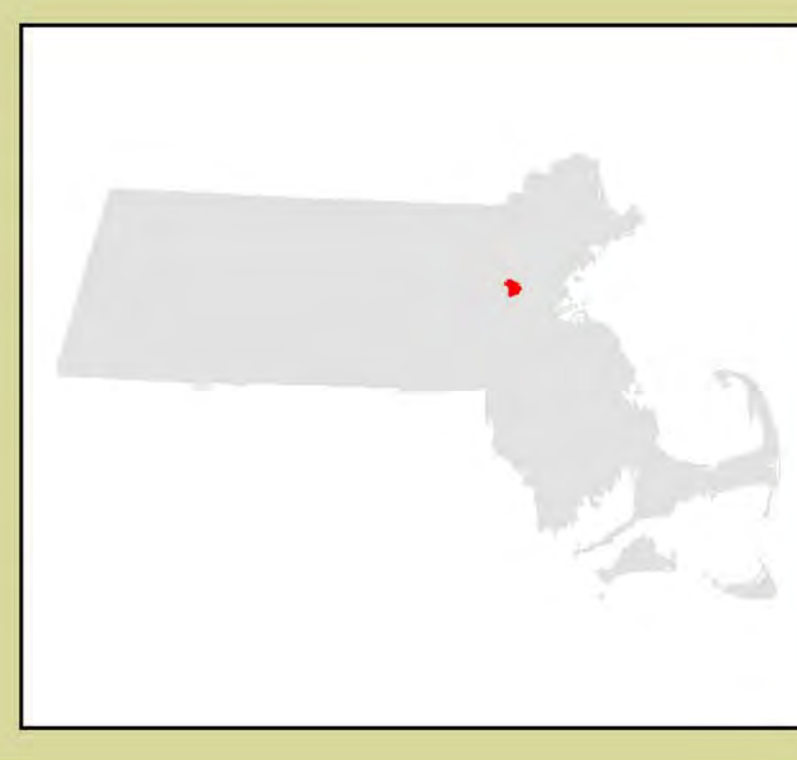
Source: TerraServer



Legend	
Flow Eq Chamber	Gate Valve
Pump Station	Hydrant
Regulator	Increaser
Sewer Manhole	Pipe-End, Plug
Wet Well	Pump Station
Gate Valve - Hydrant	Reducer
Force Main	Gravity Main
Service	Abandoned Water Line
Water Force Main	Water Main
Water Main	Service
Stand Pipe	Unknown
Easement Lines	Index Contours
	Index Depression Contours
	Intermediate Contours
	Rail Lines
	Parcel Lines
	Building Footprints
	Water Bodies
	Upland
	Wetland Area
	Stream
	Paved Roads
	Unpaved Roads
	Basketball Court
	Athletic Field
	Playground
	Tennis Court
	Vegetated Area

DISCLAIMER:
 This map is for reference and planning purposes only. It is prepared for the inventory of real property within the City of Waltham and is compiled from tax maps, recorded deeds and plats. Users of this tax map are hereby notified that the aforementioned public primary information sources should be consulted for the verification of the information contained on this map. The City of Waltham and its mapping contractors assume no legal responsibility for the information contained herein.

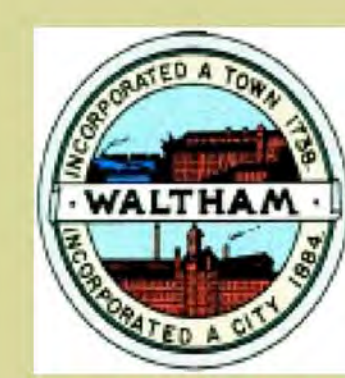
DATA SOURCE:
 The digital planimetric base map data was developed by Chas H Sell, Inc. and is based on a spring 2001 1"=40' scale color orthophotograph.



1 inch = 800 feet

0 900 1,800 3,600 Feet

FERNALD SCHOOL
 AND SURROUNDING AREA



**FIGURE 3
 SITE PLAN**

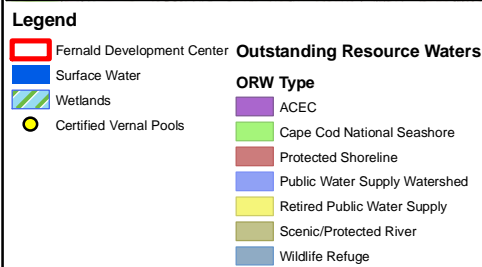
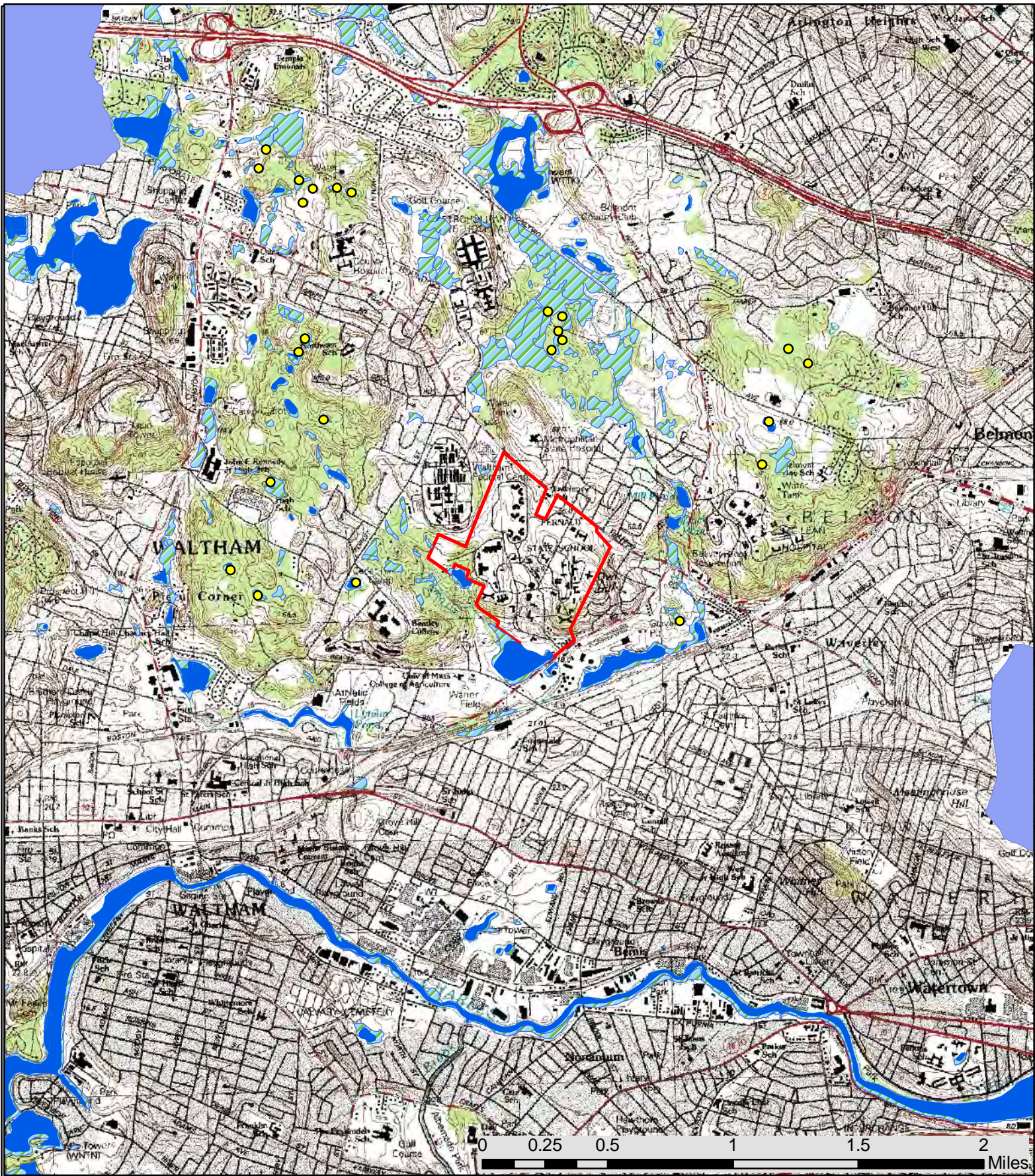
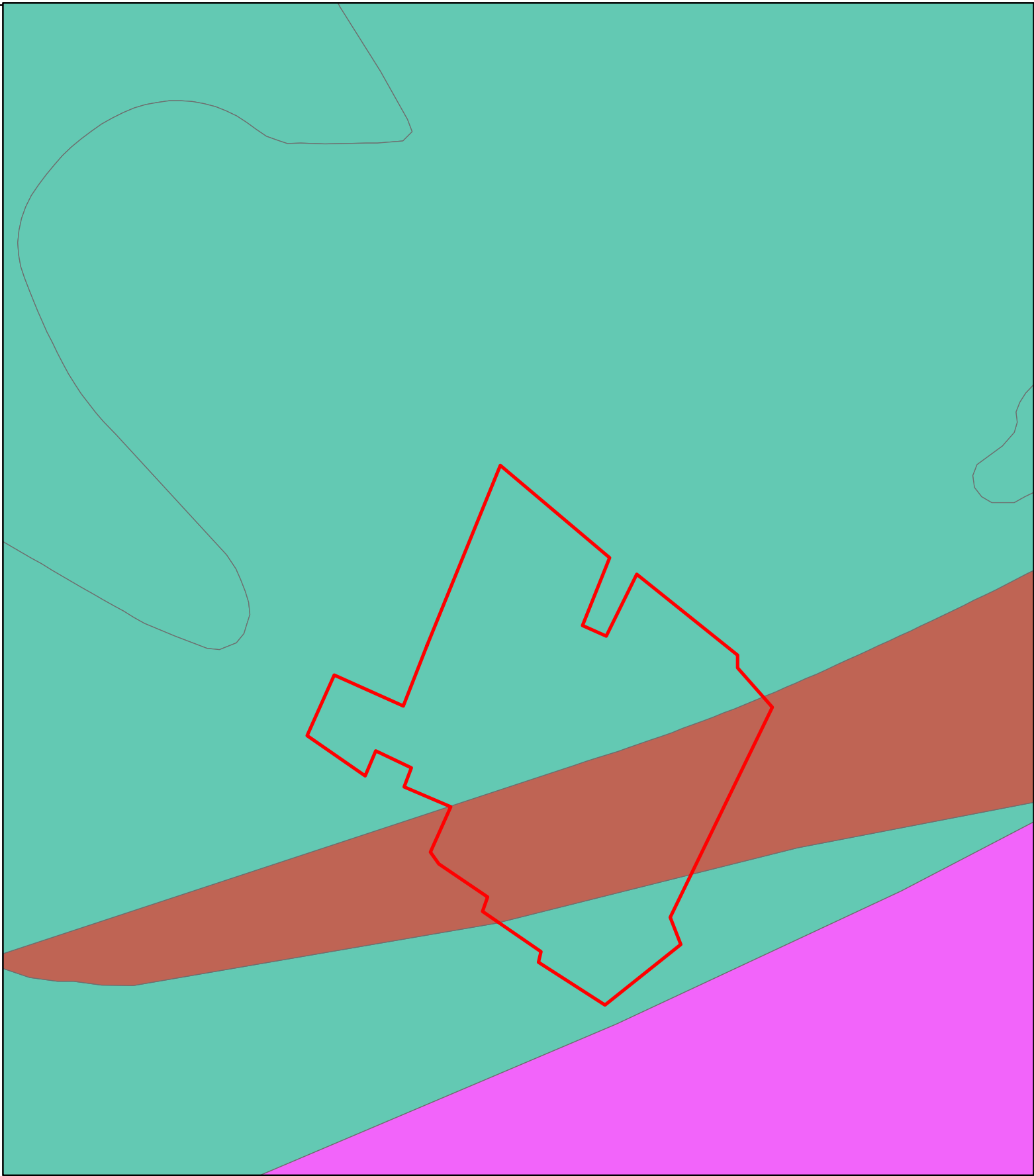


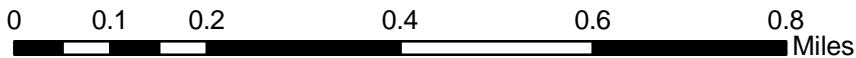
Figure 4
Site Hydrographic Features
Fernald Development Center
200 Trapelo Road
Waltham, MA



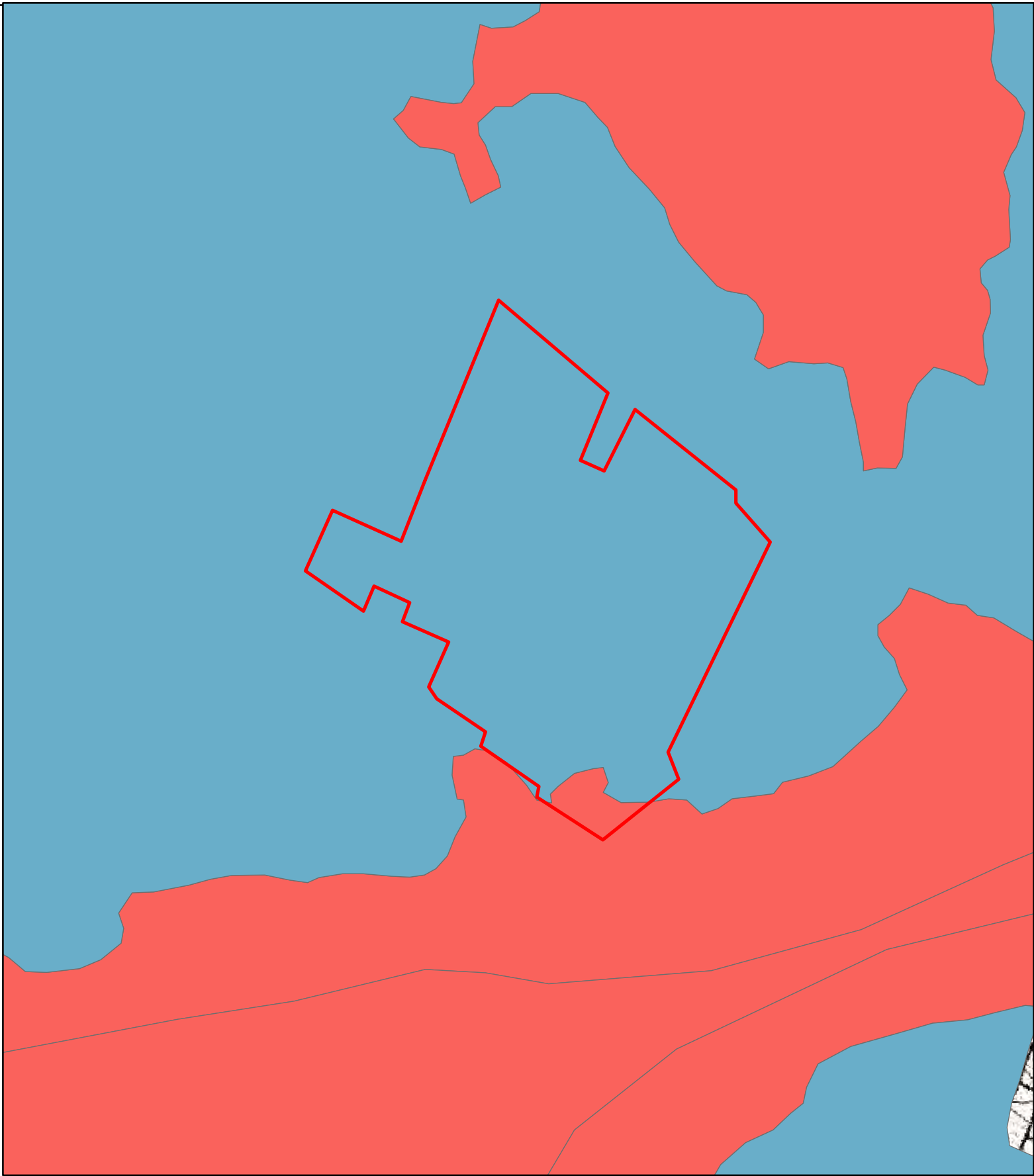
Legend

- Granite
- Mafic Rocks
- Metamorphic Rocks Undiv

Figure 5
Bedrock Lithology
Fernald Development Center
200 Trapelo Road
Waltham, MA



Source: TerraServer



Legend





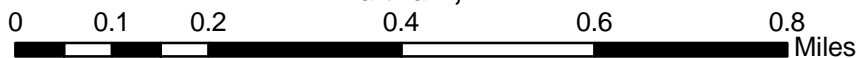
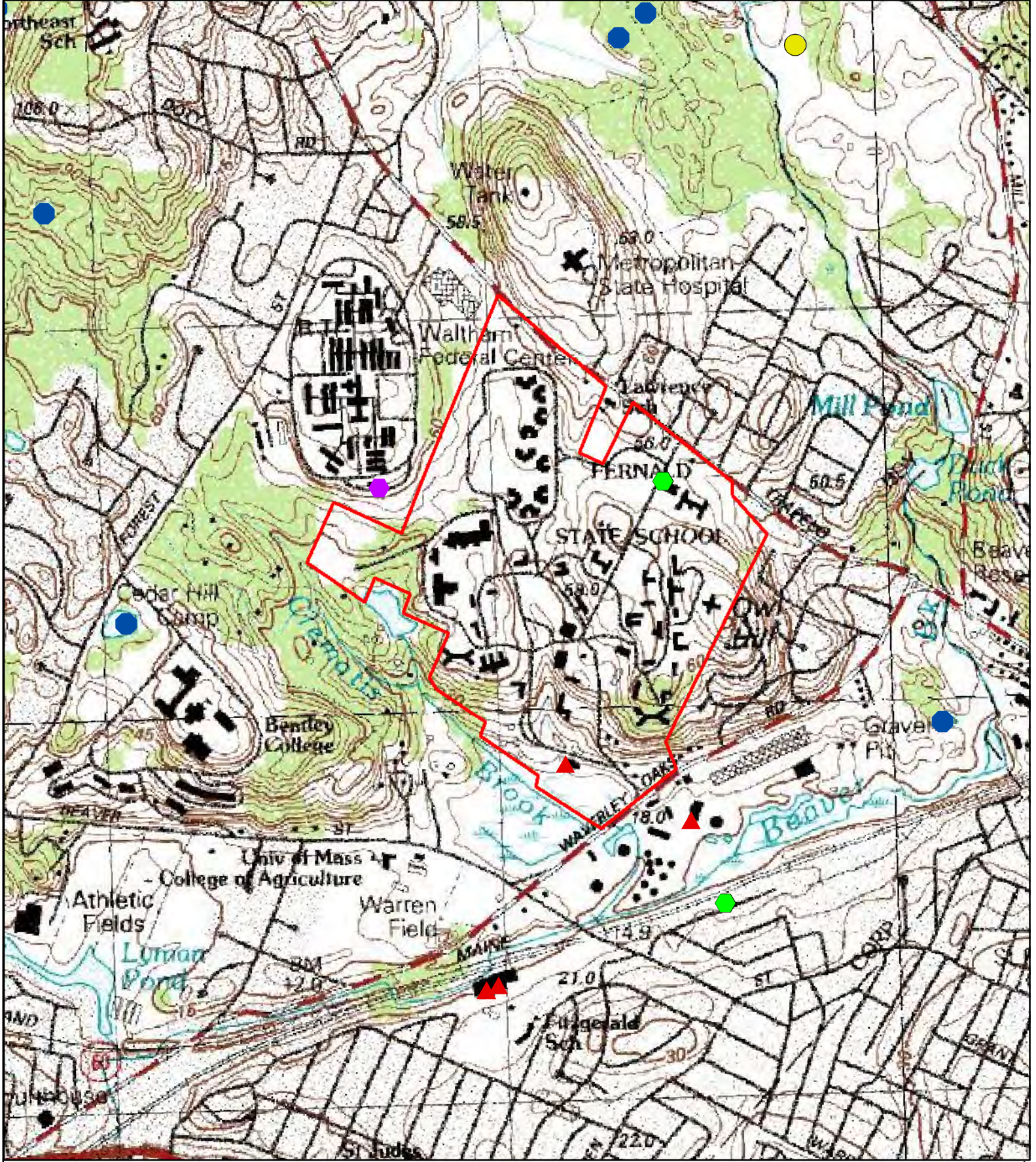
-  Sand and Gravel Deposits
-  Till or Bedrock
-  Fine-grained Deposits
-  Floodplain Alluvium

Figure 6
Surficial Geology
Fernald Development Center
200 Trapelo Road
Waltham, MA



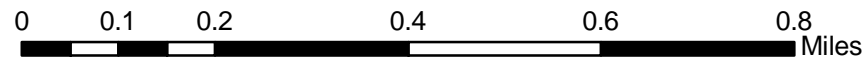
Source: TerraServer



Legend

- Solid Waste Facilities
- ▲ Activity and Use Limitations
- ◆ MADEP Bureau of Waste Prevention Regulated Sites
- ◆ 21E Sites

Figure 7
MADEP Regulated Areas
Fernald Development Center
200 Trapelo Road
Waltham, MA



Source: TerraServer



Legend



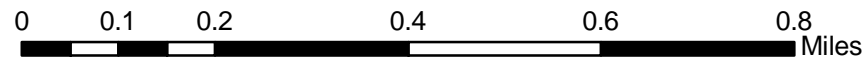
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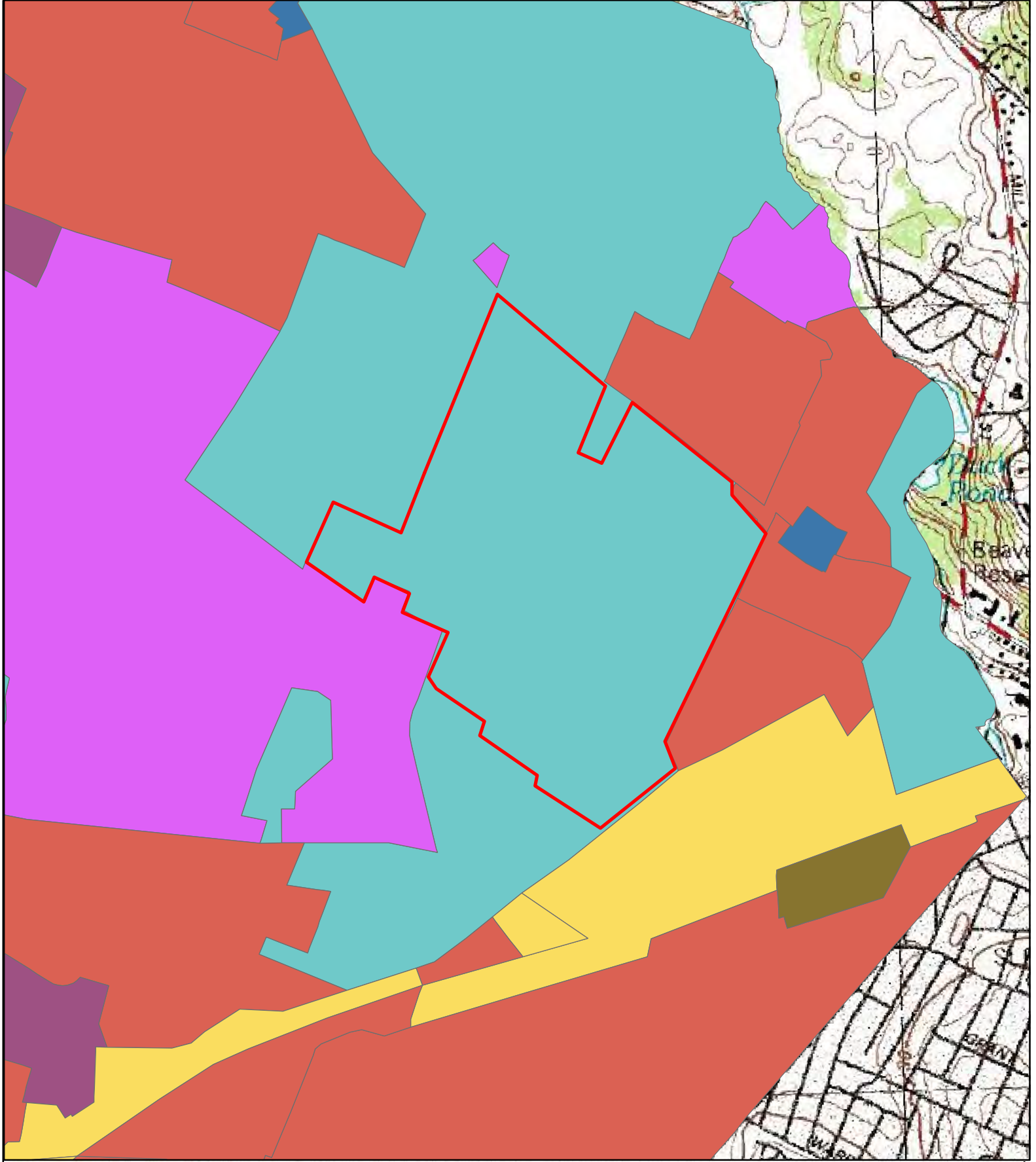
Figure 8
FEMA Flood Zones
Fernald Development Center
200 Trapelo Road
Waltham, MA



N

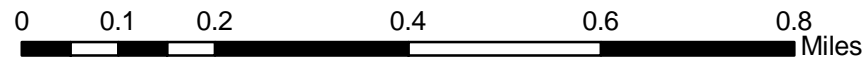



Source: TerraServer



- Legend**
- Fernald Development Center
 - Conservation/Passive Recreation
 - General Business
 - Limited Business
 - Light Industrial
 - Multi-family, high density (> 20 D.U./acre)
 - Single Family Residential, 20,000 - 39,999 sq. ft.
 - Single Family Residential, 15,000 - 19,999 sq. ft.
 - Single Family Residential, 5,000 - 14,999 sq. ft.

Figure 9
Zoning Features
Fernald Development Center
200 Trapelo Road
Waltham, MA



Quality & Integrity

Source: TerraServer

**Table 5-5
Fernald Developmental Center Building History and Environmentally Significant Features**

Building Name	Construction Date	Heat Source	Historical Uses	Current Use	Environmentally Significant Features
Administration Bldg.	1933, add. 1965	steam	Administrative offices	Administrative offices	None
Howe Hall	1933	steam	Auditorium, copy center	Copy center, dead storage	275-gal AST in basement for generator Pad-mounted transformer (#77)
Shriver Center	1969	steam	Research center	Research center	UST (installed 1970)
Thom Bldg	1952	steam	Hospital	Marquardt Nursing Center, medical clinic, offices, central supply	Propane AST on pad behind bldg. Unused diesel AST inside bldg under loading dock Electrical vault in basement
Old Service Bldg.	1931	steam	Original food service bldg.	Closed, storage in basement	None
Building 55	1960	NA	Electrical vault	Electrical vault	PCB containing transformers outside bldg
Pearlman Bldg	Early 1990s	steam	New food service bldg	Food service bldg	5,000-gal diesel AST in building for generator
East/ Dowling Hall	1906	steam	Residence, offices, former bottle/can redemption center	Vacant	Pad-mounted transformer (#76) appears to be very old
Hillside	1904	natural gas	Superintendent's residence, later client residential bldg.	Unoccupied	None
Training/Activity Center and Greenhouse/Program Bldg	1980s	oil	Greenhouse, client craft activities	Greenhouse, client craft activities	4,000-gal UST outside Pad-mounted transformer (#14)
Site 5	1981	oil	Program building	Waverley Bottle and Can Redemption Center	10,000-gal UST
Cottages #3 - #13	1976	UGHW	Residential	Residential (some unoccupied)	Pad-mounted transformers(T69-T72 and T75) 85-gal diesel AST under Onan generator (outside of Cottage #11)
Cottage Complex (Site 7) Bldg	1981	oil	Program activities	Workshop, Recreation area, piece work	Pad-mounted transformer (T75)
Woodside	1981	UGHW	Program activities	Recreation area, piece work	Pad-mounted transformer (T74)
Brookside	1981	UGHW	Program classrooms	Program classrooms	Pad-mounted transformer (T15)
Chapel	1960	steam	Church services	Church services	Non-PCB transformer T2 on UP SE corner of bldg
Greene Unit	1953	steam	Hospital	Hospital, pool, gym, conference rooms	275-gal diesel AST in bldg for generator Non-PCB Pad-mounted transformer (T12)
Wheatley Hall	1933	steam	Furniture repair	Unoccupied	Location marker for Exxon petroleum pipeline north-northwest of Wheatley Hall along Malone Park Drive
Farrell Hall	1960	steam	Residential	Residential	Pad-mounted transformer (T11) Kohler diesel generator (AST 3A) Could not locate AST 16A outside of bldg (may be inside)
Dolan Hall	1906	steam	Residential	Vacant	Non-PCB pad-mounted transformer (T10)
Malone Park Bldgs: ICF 21 – ICF 24	1980s-1990s	oil	Residential	Residential	Pad-mounted transformer (T68) Four 300-gallon No. 2 oil ASTs in plastic secondary containment lidded boxes Three monitoring wells observed near ICF 21 and ICF 22/23
MacDougall Hall	1898	steam	Residential	Unoccupied	None
Seguin Hall	1934	steam	Residential	unoccupied	100-gal diesel generator (AST 13A) outside building, battery on ground Non-PCB pad-mounted transformer (T9)
Belmont House	1890	Steam	Original power plant, later used as Program bldg	Unoccupied	Could not find T4, T5, and T6 due to dense vegetation
West Building	1989	steam	Residential asylum	Unoccupied	None
West Nurses	1906	steam	Staff residence and office	Unoccupied, dead record storage	None
Tarbell House	1934	steam	Residential	Residential	Non-PCB pad-mounted transformer (T8)
Day Care Center, 338 Trapelo Rd	c. 1900	gas	Private residence later used as FDC staff daycare	Unoccupied	none
Volunteer Center a.k.a. Cardinal	c. 1850	oil	Private residence (former church property), later used as	Unoccupied	Two oil tanks in basement

NOTES:

1) Construction dates for some Fernald Developmental Center (FDC) buildings are estimated, and intended to provide the era in which construction may have occurred.

Bldg – Building

c. - circa

AST – Aboveground Storage Tank

UGHW – Underground Hot Water

UST – Underground Storage Tank

**Table 5-5
Fernald Developmental Center Building History and Environmentally Significant Features**

Building Name	Construction Date	Heat Source	Historical Uses	Current Use	Environmentally Significant Features
Cottage			“Volunteer Center”		Potential asbestos shingle siding Discarded computer monitors near garage bldg
Day Center Center, 180 Trapelo Rd	c. 1860	oil	Residence later uses as FDC staff day care	Unoccupied	Oil tank in basement Potential asbestos shingle siding
North Bldg	1897	steam	Residences	Offices	Non-PCB pad-mounted transformer (T16)
Withington Bldg	c. 1950s-1960	steam	Replaced old Boys Home	Offices, Tufts Dental, DMR Investigation unit office	Inactive gas-powered generator in basement/tank was removed 10-15 years ago Pad-mounted transformer (T17)
North Nurses	1904	steam	Residential	Offices	None
Kelley Hall	1969	steam	Residential	Unoccupied	Could not find Transformers 82 - 86
East Nurses	1906	steam	Residential, offices	Unoccupied	None
“Old” Activities Center	1891	steam	Residential, recreation center, office	Unoccupied	None
Schoolhouse	1891	steam	Schoolhouse for training, gymnasium, later office	Offices for speech & audiology department	Non-PCB pad-mounted transformer (T19)
Manual Training	1904	steam	Residential, trades education, offices	Unoccupied	Non-PCB pad-mounted transformer (T18)
Chipman Hall	1892	steam	Residence, day programs	Unoccupied	None
Waverley Hall	1891	steam	First administration bldg, (until 1936), staff residences	Unoccupied	Stored 55-gal drums of waxes and strippers in basement
Warren Hall	1906	steam	Residential	Unoccupied	Non-PCB pad-mounted transformer (T10) southwest of building
South Nurses	1907	steam	Residential	Unoccupied, used for dead storage	None
Wallace Bldg	1936	steam	Residential	Residential – used by Metro Regional Services	Generator with 100-gal diesel (12A) capacity on pad outside south side of building Non-PCB pad-mounted transformer (T21)
Stephen Bowen Hall	1893-1907	steam	Original infirmary, then residential, offices, day program	Unoccupied	None
Transformer vault (Bldg 14)	1960	none	Electrical vault	Electrical vault	Transformers T62-T64 and T27- T28 inside bldg
Store Room	1891	steam	Warehouse	Receiving warehouse	None
Garage	1932	steam	Maintenance garage	Maintain and park for FDC vehicles	2x 275-gal Waste Oil ASTs in secondary containment (19A)
Southard Research Laboratory	1921	steam	Medical lab (autopsies and research), library	Historical repository for DMR records	Past use of chemicals and perhaps radioactive isotopes
Laundry/Therapeutic Equipment Center	1928	steam	FDC Laundry facilities, and workshops for design and manufacture of therapeutic equipment	Workshops for design and manufacture of therapeutic equipment	None (no dry cleaning)
Lavers Hall	1914	steam	Infirmary, then residential, offices	Offices	None
Farm & Grounds Complex with assorted sheds and outbuildings	1930s – 1970s	propane	Garage and maintain heavy equipment and vehicles	Garage and maintain heavy equipment and vehicles (FDC snowplow, dump trucks, etc.)	Pole-mounted transformer (T1) Potential waste oil storage Empty 275-gal heating oil AST in garage Three 55-gal drums of diesel fuel
Maintenance Yard	c. 1930	steam	Carpentry, paint, electrician, plumbers, and locksmith shops	Carpentry, paint, electrician, plumbers, and locksmith shops	Pole-mounted transformer (T3)
Blue trailer	Unknown	none	Residential	Unoccupied	None – temporarily stored near Maintenance yard
Cottages 17 and 18	1925	oil	Residential	Unoccupied	Each reported to have heating oil AST in basement (17A, 18A) Transformer T7 not found
Cottages 19 and 20	1925	natl gas	Residential, offices	Unoccupied, garages used for dead storage	None
Greenhouse	1940s	steam	Greenhouse	Greenhouse	Possible storage of fertilizers, herbicides, and pesticides
Main Transformer Station (T57)	1960s	none	Transformer facility	Transformer facility	Main power station into FDC
Power Plant	1921	steam	FDC Steam plant	FDC Steam plant	Gasoline generator in building never functioned and UST was removed Two 20,000-gal No. 6 oil tanks on west side of bldg Exposed pipe insulation in poor condition in scaffolding above driveway near USTs

NOTES:

1) Construction dates for some Fernald Developmental Center (FDC) buildings are estimated, and intended to provide the era in which construction may have occurred.

Bldg – Building

c. - circa

AST – Aboveground Storage Tank

UGHW – Underground Hot Water

UST – Underground Storage Tank



Photo Number 1: North side of Fernald Developmental Center (FDC) Administration Building.

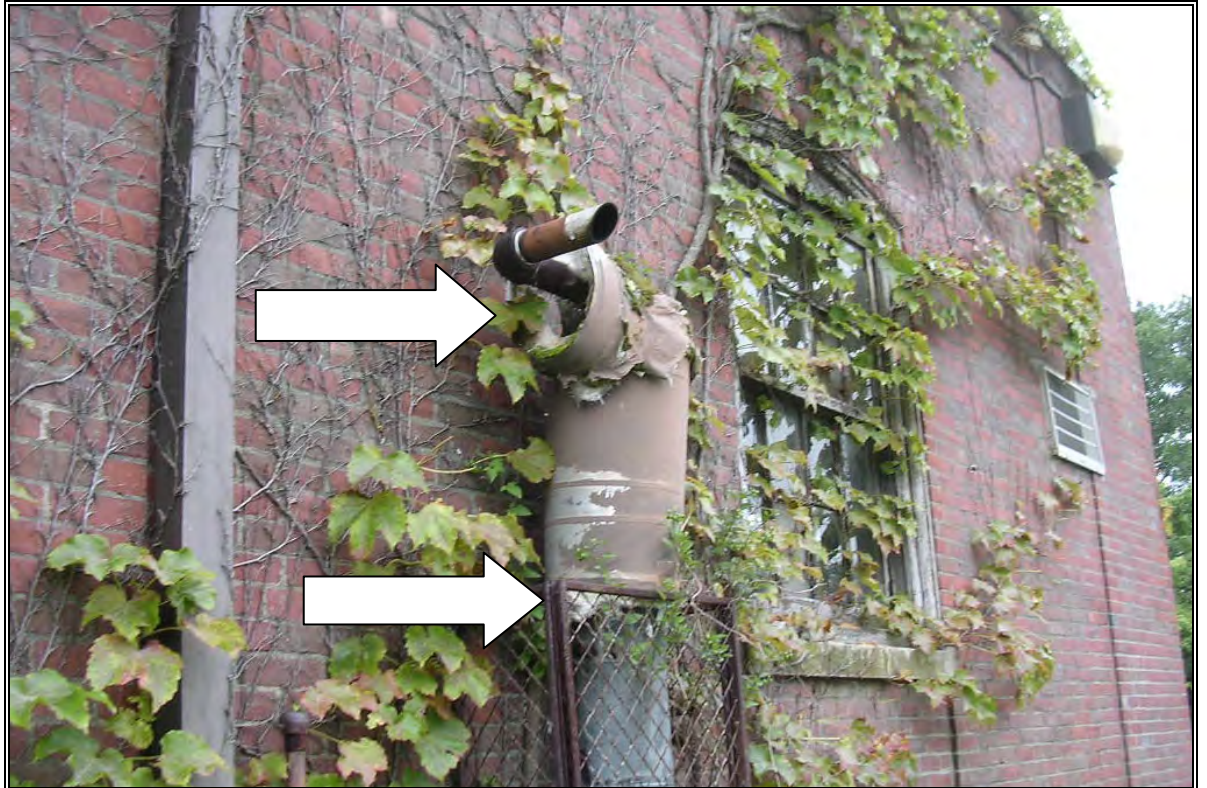


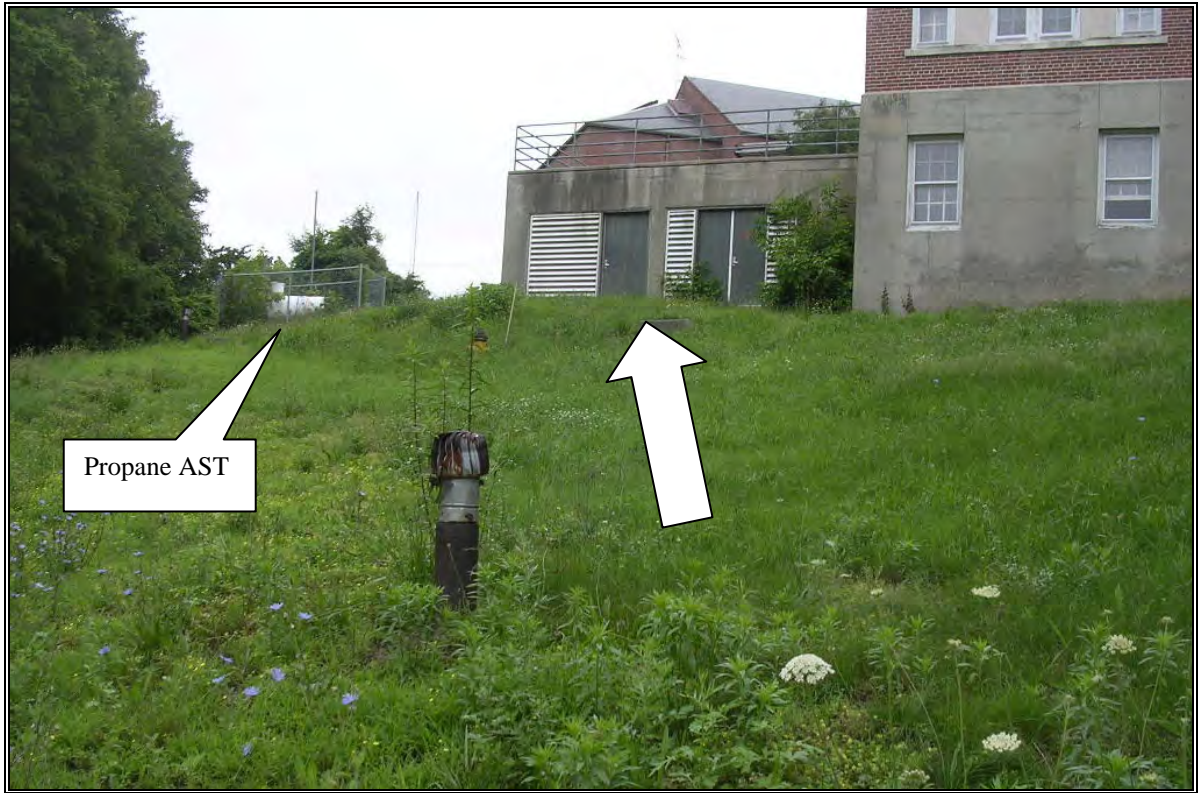
Photo Number 2: Exposed thermal system insulation on generator vent pipe at Howe Hall.



Photo Number 3: Howe Hall AST fill and vent pipe on northwest side of building.



Photo Number 4: Thom Building AST vent pipe on north side of building.



Propane AST

Photo Number 5: Historical REC area outside Thom Building impacted by diesel release and propane AST.



Photo Number 6: View of PCB sign in transformer yard north of Building 55.



Photo Number 7: View of transformers on pad in Building 55 transformer yard. Note PCB label.



Photo Number 8: Northwest side of Thom Building occupied by the Marquardt Nursing Center.



Photo Number 9: UST (7U) fill pipe on north side of Training/New Activities Center.



Photo Number 10: North side of East/Dowling Hall and parking lot impacted by gasoline release.



Photo Number 11: UST (5U) fill pipe and manhole access to tank in lawn south of Site 5.



Photo Number 12: View of UST vent pipe adjacent to Site 5 building.



Photo Number 13: Generator near Cottage #11 with AST (14A) in inside concrete block structure.



Photo Number 14: Hot water heating pipe enters Cottage Complex buildings from ground.



Photo Number 15: UST (6U) fill and vent pipes outside entrance to Site 7.



Photo Number 16: Vent pipe for underground hot water pipe system in Cottage Complex.

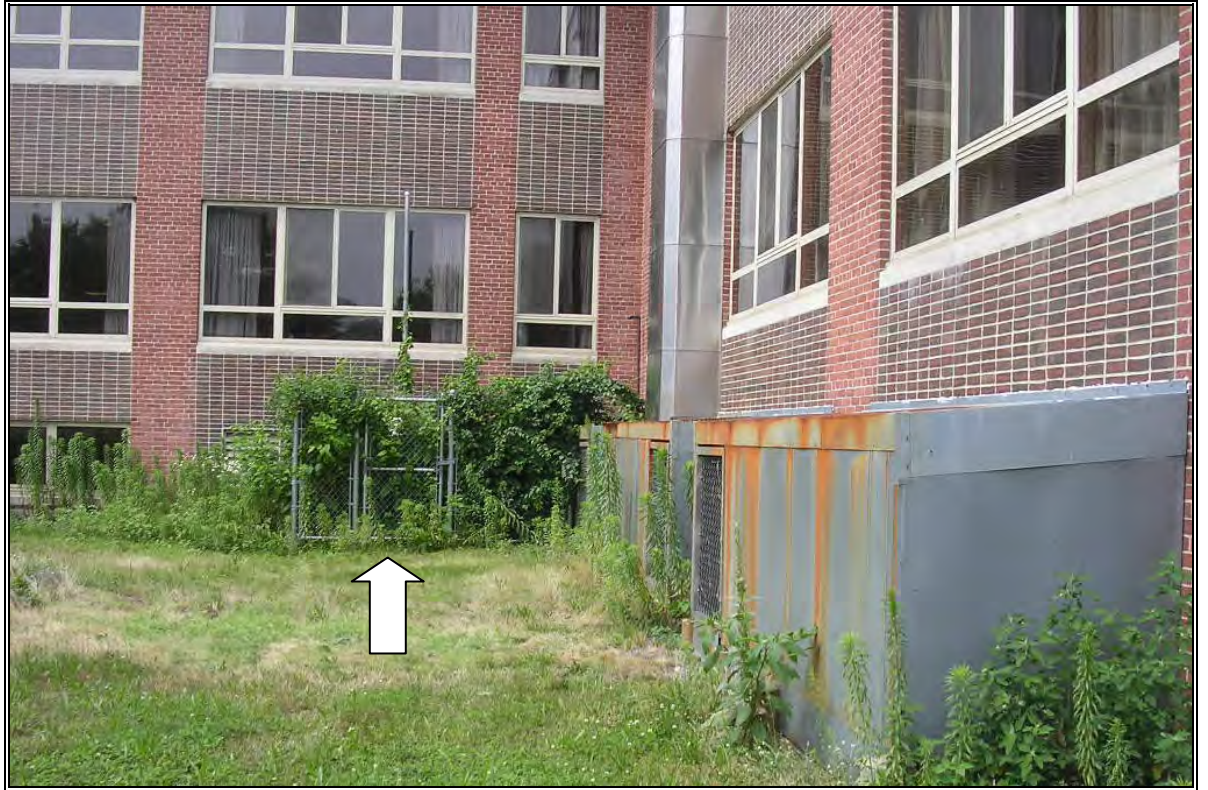


Photo Number 17: Diesel generator AST (4A) on south side of Greene Unit.



Photo Number 18: Fuel oil AST enclosure outside ICF 24 (8A).



Photo Number 19: Monitoring well CMW-1R outside ICF 23, and location of removed heating oil tank.



Photo Number 20: Oil pipeline marker near Malone Park Drive.



Photo Number 21: Diesel generator adjacent to Farrell Hall, location of AST 3A.



Photo Number 22: Diesel generator adjacent to Seguin Hall (location of AST 12A)



Photo Number 23: Access to steam pipe tunnel near Dolan Hall.



Photo Number 24: South (rear) wall of Belmont House and road salt in garage.



Photo Number 25: Fill and vent pipes for two ASTs in basement of Volunteer Center. Note asbestos siding.



Photo Number 26: AST fill and vent pipes at 180 Trapelo Road (former Day Care Center) and asbestos siding.



Photo Number 27: Northeast corner of North Building.



Photo Number 28: West side of Withington Building and location of Tufts Dental.



Photo Number 29: Transformer house between North Building (right) and Old Activities Center (not shown).



Photo Number 30: South facing wall of North Nurses.



Photo Number 31: Northwest side of Kelley Hall which was boarded up.



Photo Number 32: East wall of Old Activities Center.



Photo Number 33: Access and vent pipe to steam pipe subway.



Photo Number 34: Transformer on west side of the Schoolhouse.



Photo Number 35: Diesel generator and AST (12A) on south side of Wallace Building



Photo Number 36: Building 14 containing transformers on hillside West of Stephen Bowen Hall.



Photo Number 37: Waverley Hall entrance secured behind chain link fencing.



Photo Number 38: Rusted out drum in Waverley Hall fenced enclosure.



Photo Number 39: Southard Laboratory (currently housing a library and media center).



Photo Number 40: Southwest wall of Store Room and open steam pipe vault (on left).



Photo Number 41: Damaged thermal system insulation in open steam pipe vault.



Photo Number 42: View of northwest side of Garage and waste oil storage area (AST 19A)



Photo Number 43: Discarded drum, tired, and automotive parts on hillside on east side of Garage.



Photo Number 44: Abandoned Cottage 17



Photo Number 45: East side of Maintenance buildings and workshop entrances.



Photo Number 46: View of Farm and Grounds Department building



Photo Number 47: AST Fill and vent pipe and debris pile next to Farm and Grounds Department building



Photo Number 48: Former gasoline UST and pump island area in Farm and Grounds Department parking lot.



Photo Number 49: Greenhouse on northeast side of Chapel Street.



Photo Number 50: Location of generator vent and Power Plant.



Photo Number 51: Former location of gasoline UST (formerly used for Power Plant generator)



Photo Number 52: Main Transformer Yard east of Power Plant.

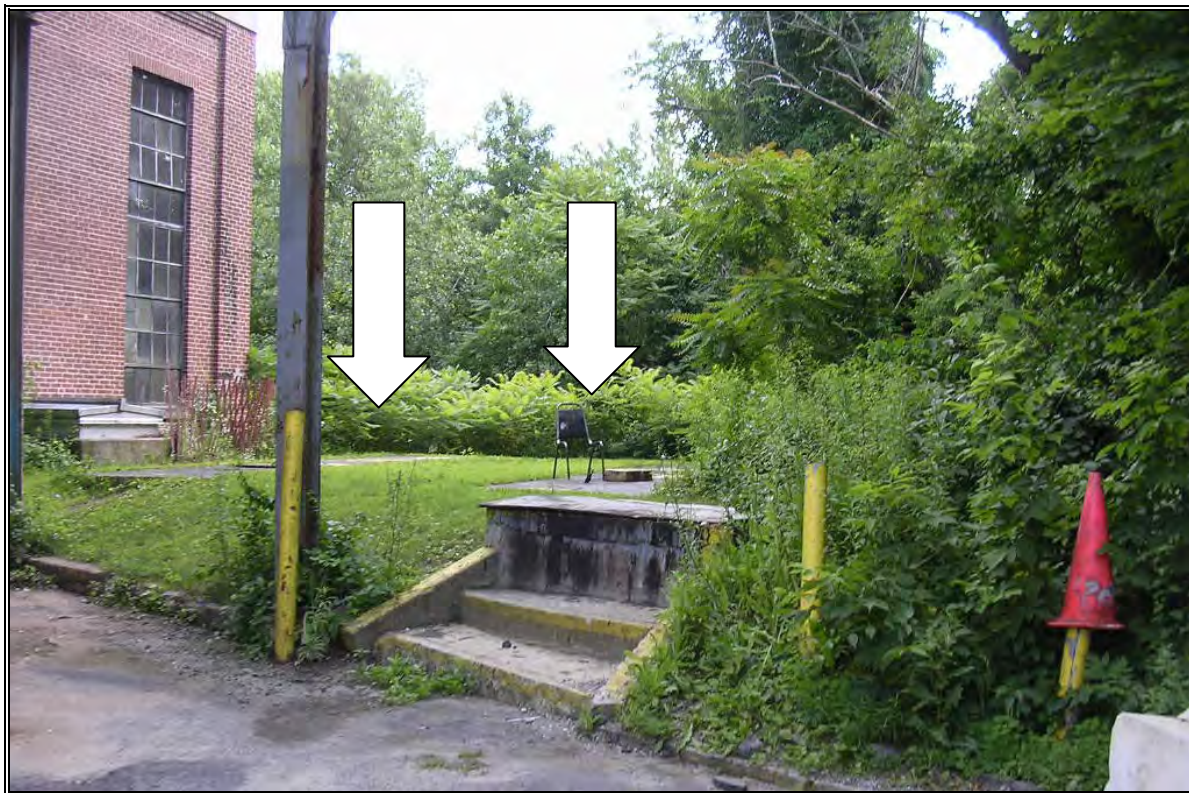


Photo Number 53: Location of two 20,000-gallon No. 6 fuel oil USTs beside Power Plant.



Photo Number 54: Damaged pipe insulation on northwest side of Power Plant.



Photo Number 55: Discarded computer monitors and debris near Volunteer Center garage.



Photo Number 56: View of Cottage 20.



Fernald Development Center

200 Trapelo Road

Waltham, MA 02452

Inquiry Number: 2508314.5

June 02, 2009

The EDR Aerial Photo Decade Package



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography June 02, 2009

Target Property:

200 Trapelo Road

Waltham, MA 02452

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	Aerial Photograph. Scale: 1"=500'	Panel #: 2442071-D2/Flight Date: December 15, 1938	EDR
1955	Aerial Photograph. Scale: 1"=750'	Panel #: 2442071-D2/Flight Date: December 01, 1955	EDR
1960	Aerial Photograph. Scale: 1"=1000'	Panel #: 2442071-D2/Flight Date: May 26, 1960	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 2442071-D2/Flight Date: April 23, 1978	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 2442071-D2/Flight Date: October 10, 1980	EDR
1987	Aerial Photograph. Scale: 1"=1000'	Panel #: 2442071-D2/Flight Date: April 27, 1987	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 2442071-D2/Flight Date: March 29, 1995	EDR
2006	Aerial Photograph. Scale: 1"=501'	Flight Year: 2006	EDR



INQUIRY #: 2508314.5

YEAR: 1938

| = 500'





INQUIRY #: 2508314.5

YEAR: 1955

| = 750'





INQUIRY #: 2508314.5

YEAR: 1960

| = 1000'





INQUIRY #: 2508314.5

YEAR: 1978

| = 750'





INQUIRY #: 2508314.5

YEAR: 1980

| = 750'





INQUIRY #: 2508314.5

YEAR: 1987

| = 1000'





INQUIRY #: 2508314.5

YEAR: 1995

| = 750'





INQUIRY #: 2508314.5

YEAR: 2006

| = 501'





Fernald Development Center

200 Trapelo Road

Waltham, MA 02452

Inquiry Number: 2508314.3

June 02, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

6/02/09

Site Name:

Fernald Development Center
200 Trapelo Road
Waltham, MA 02452

Client Name:

TechLaw, Inc.
175 Cabot Street
Lowell, MA 01854



EDR Inquiry # 2508314.3

Contact: Melanie Littman

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by TechLaw, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Fernald Development Center
Address: 200 Trapelo Road
City, State, Zip: Waltham, MA 02452
Cross Street:
P.O. # NA
Project: NA
Certification # ODA4-4839-AEBC



Sanborn® Library search results
Certification # ODA4-4839-AEBC

Maps Provided:

1972
1950
1918
1911
1903
1897

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1972 Source Sheets



Volume 1, Sheet 56

1950 Source Sheets



Volume 1, Sheet 56

1918 Source Sheets



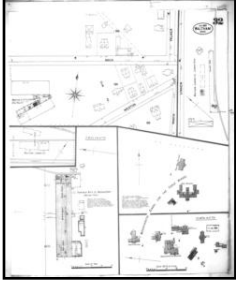
Volume 1, Sheet 56

1911 Source Sheets



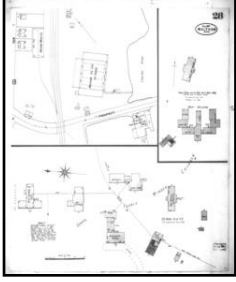
Volume 1, Sheet 40

1903 Source Sheets



Volume 1, Sheet 32

1897 Source Sheets

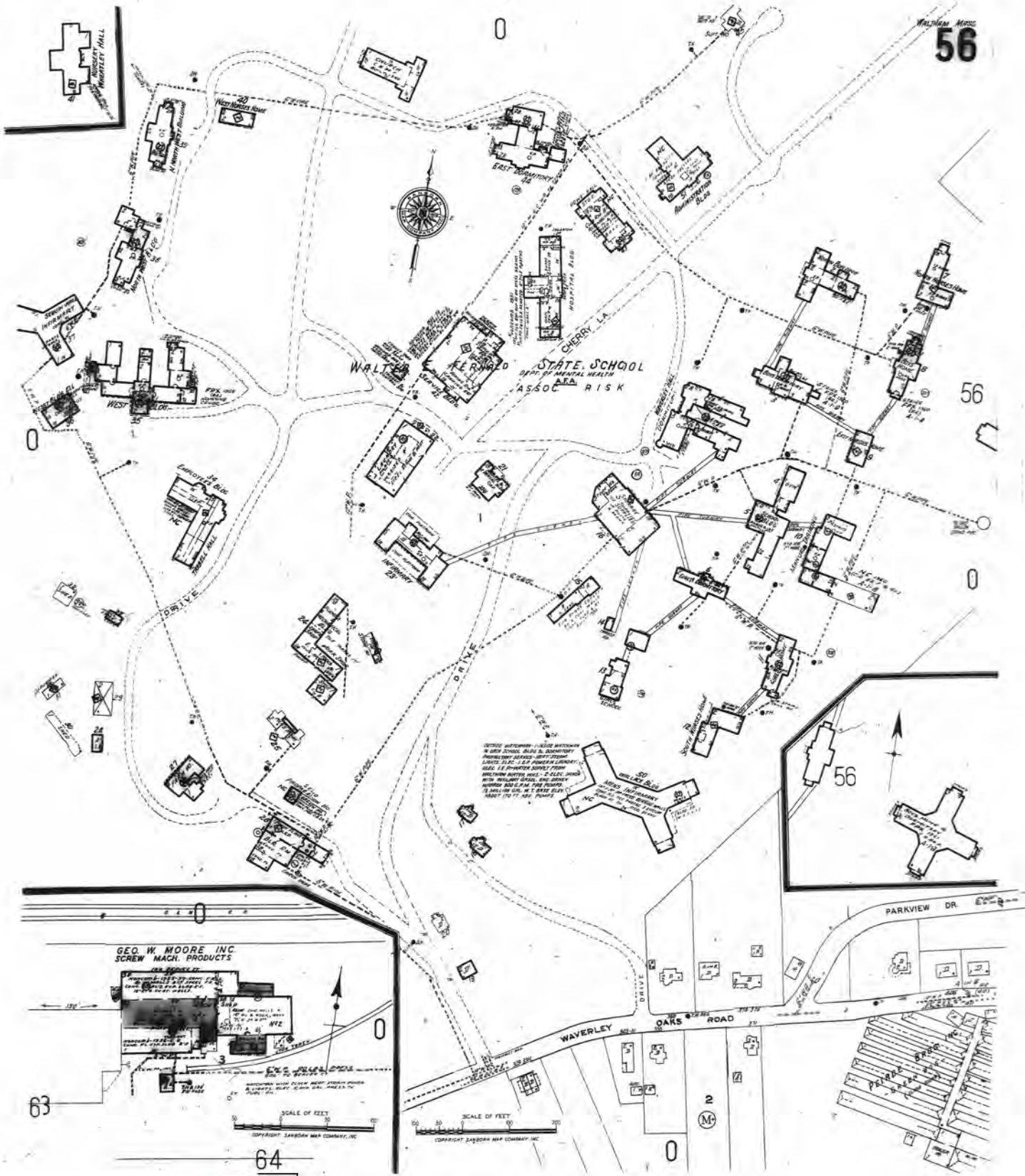


Volume 1, Sheet 28

1972 Certified Sanborn Map

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Certification # ODA4-4839-AEBC



Site Name: Fernald Development Center
 Address: 200 Trapelo Road
 City, ST, ZIP: Waltham MA 02452
 Client: TechLaw, Inc.
 EDR Inquiry: 2508314.3
 Order Date: 6/2/2009 8:24:02 AM
 Certification #: ODA4-4839-AEBC

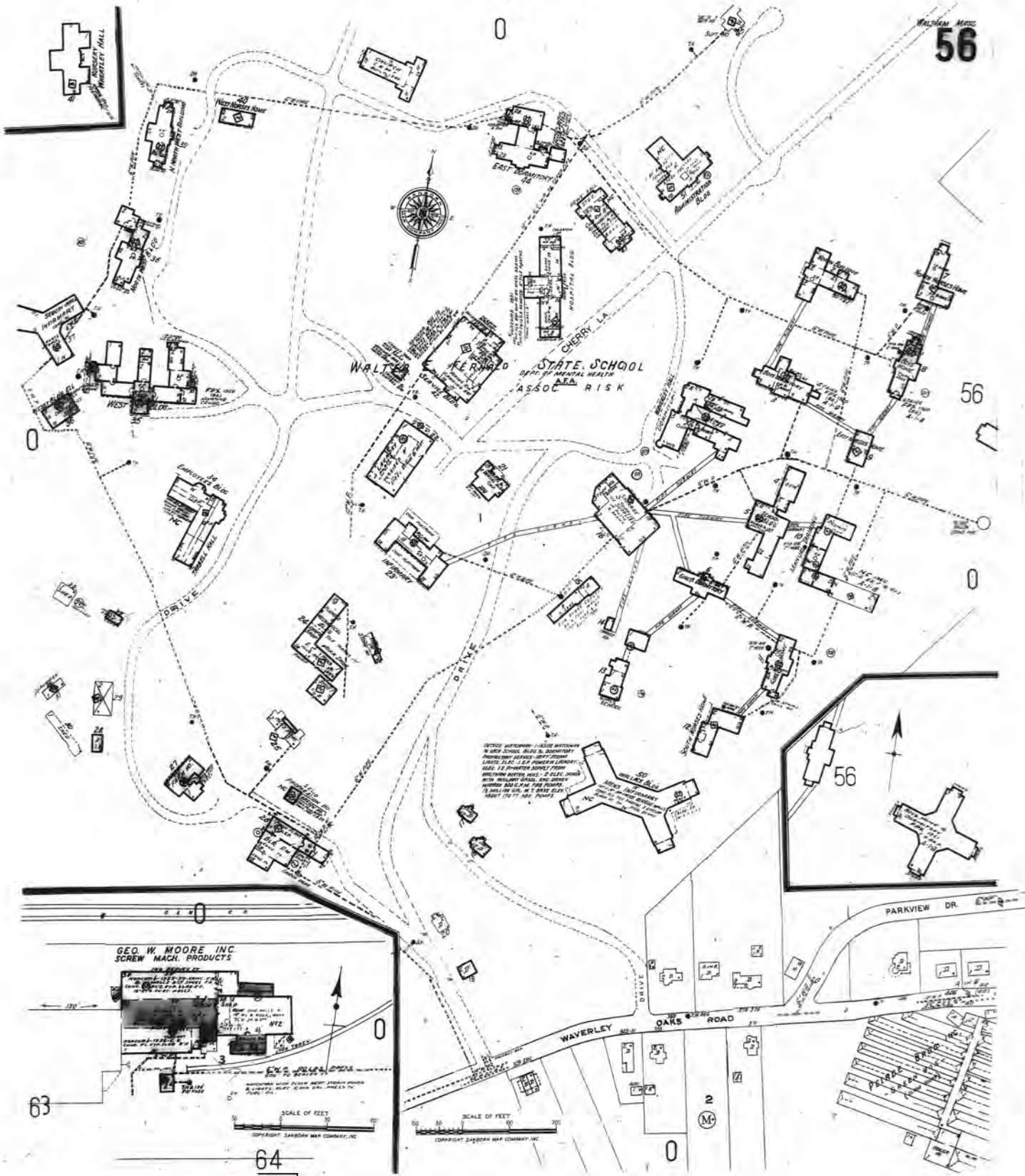


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1972 Certified Sanborn Map

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Copyright: 1972

1972 Certified Sanborn Map

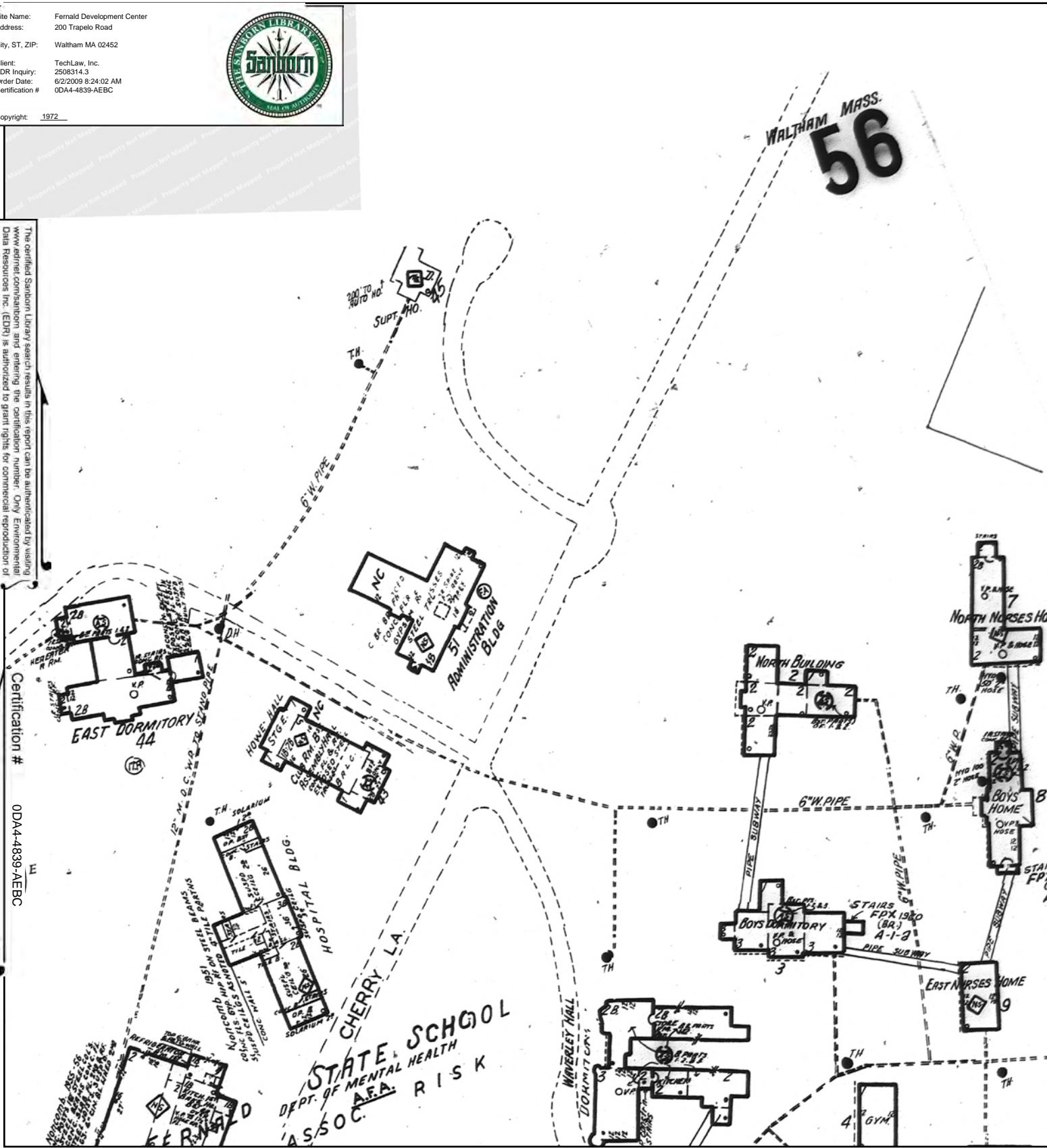
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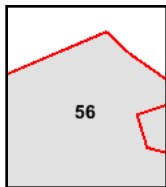
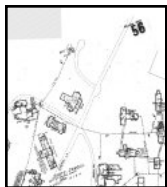
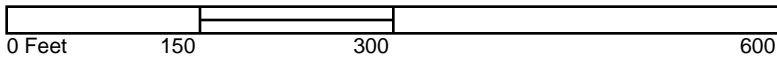
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Volume 1, Sheet 56



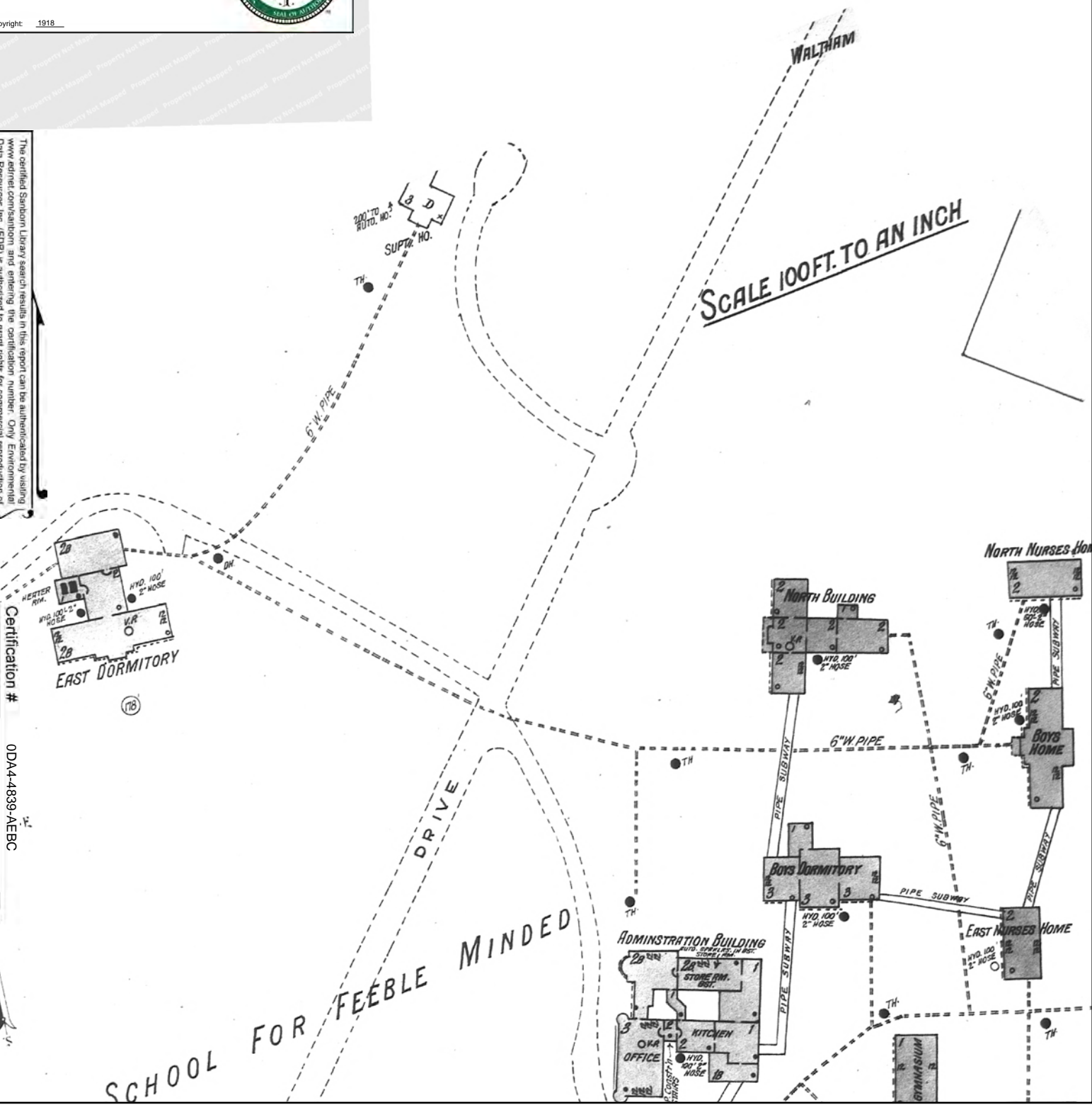
1918 Certified Sanborn Map

Site Name: Fernald Development Center
 Address: 200 Trapelo Road
 City, ST, ZIP: Waltham MA 02452
 Client: TechLaw, Inc.
 EDR Inquiry: 2508314.3
 Order Date: 6/2/2009 8:24:02 AM
 Certification #: ODA4-4839-AEBC

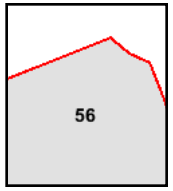


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 Order Date: 8/2/2009 8:24:02 AM
 Certification #: ODA4-4839-AEBC



Copyright: 1911

40
 APR 1911
 WALTHAM
 MASS.

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Certification #
 ODA4-4839-AEBC

Charles River

185

RUMFORD AV.

427

MARTYN

RANDALL

428

LOGAN

RIVERVIEW AV.

WALTHAM MFG. CO.
 MFG. AUTOMOBILES & BUCK BOARDS

OHARA WALTHAM DIAL CO.
 MFG. DIALS & ENAMELLED NOVELTIES

WALTHAM SCREEN CO.
 SCREENS & MESH

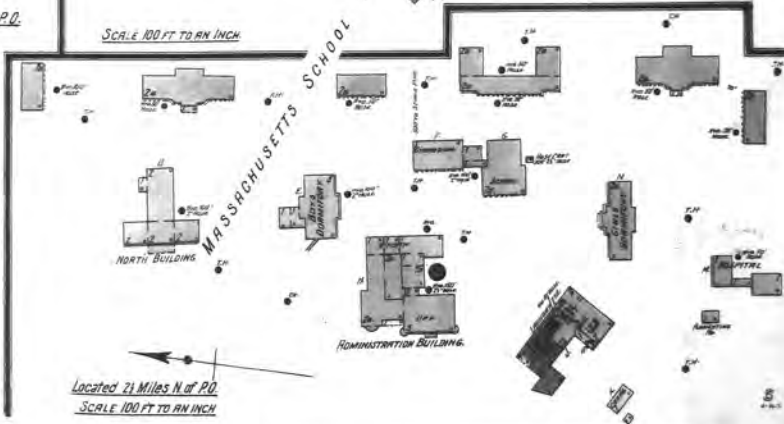
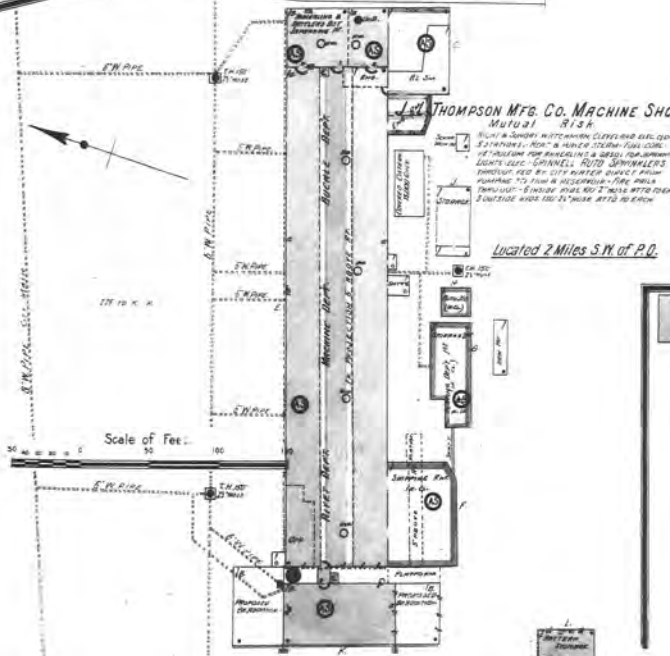
WALTHAM MFG. CO.
 NORTH BUILDING & WEST BUILDING
 MFG. AUTOMOBILES & BUCK BOARDS
 CHESEBROUGH BATTERY WORKS

THOMPSON MFG. CO. MACHINE SHOP
 Mutual Risk
 Located 2 Miles S.W. of P.O.

SCALE 100 FT TO AN INCH

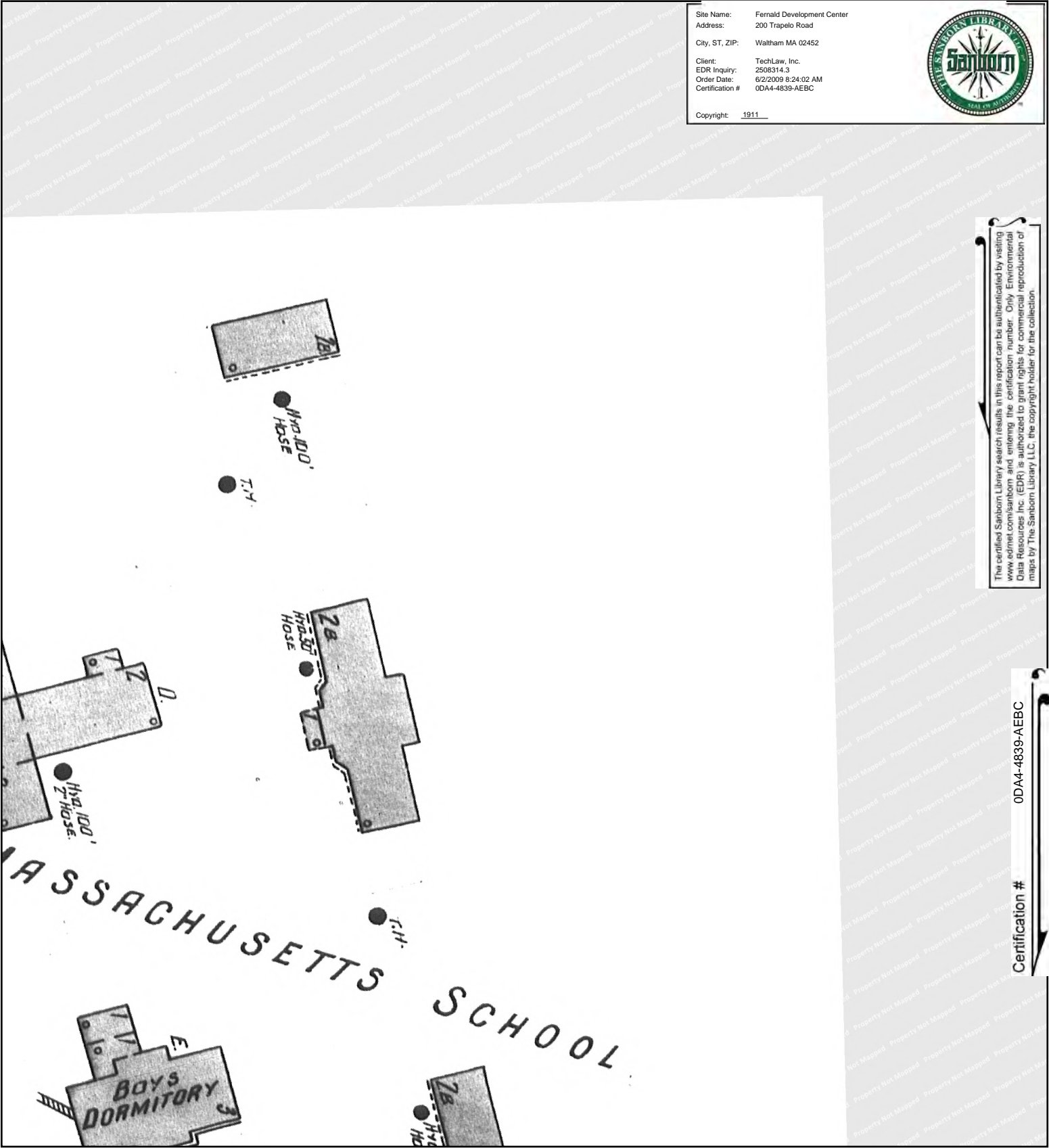
Located 2 1/2 Miles N. of P.O.
 SCALE 100 FT TO AN INCH

FOR THE FEEBLE MINDED
 NORTH BUILDING
 WEST BUILDING
 ADMINISTRATION BUILDING



1911 Certified Sanborn Map

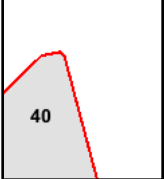
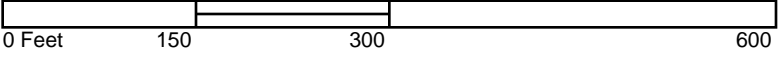
Site Name: Fernald Development Center
Address: 200 Trapelo Road
City, ST, ZIP: Waltham MA 02452
Client: TechLaw, Inc.
EDR Inquiry: 2508314.3
Order Date: 6/2/2009 8:24:02 AM
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Volume 1, Sheet 40



1903 Certified Sanborn Map

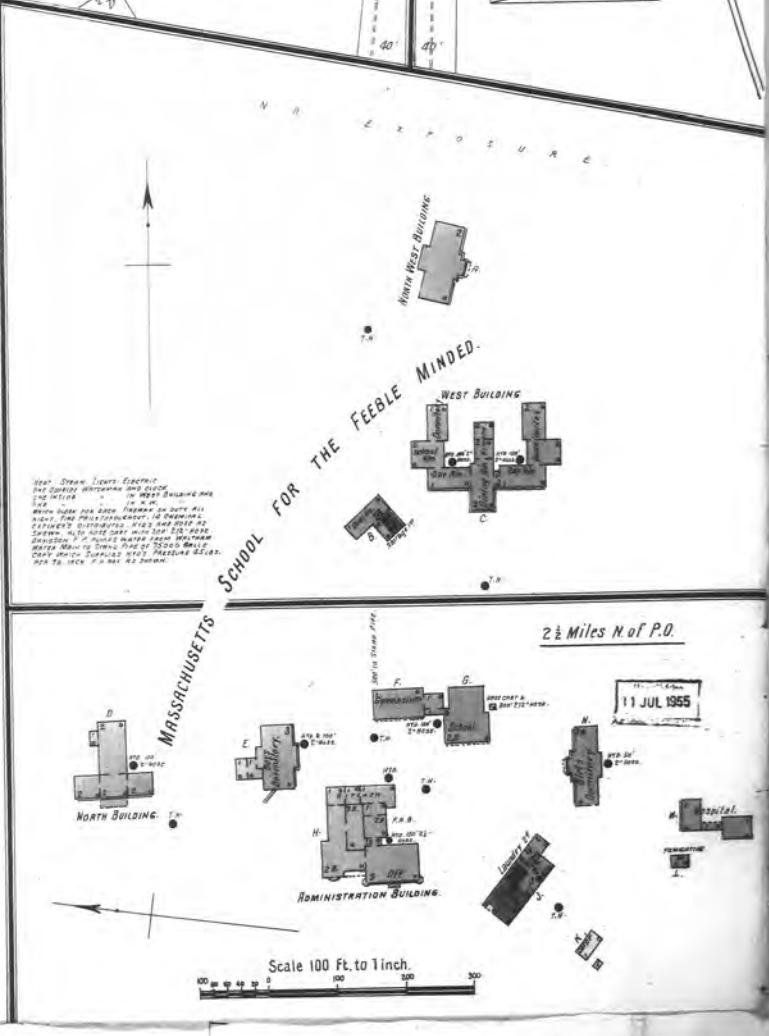
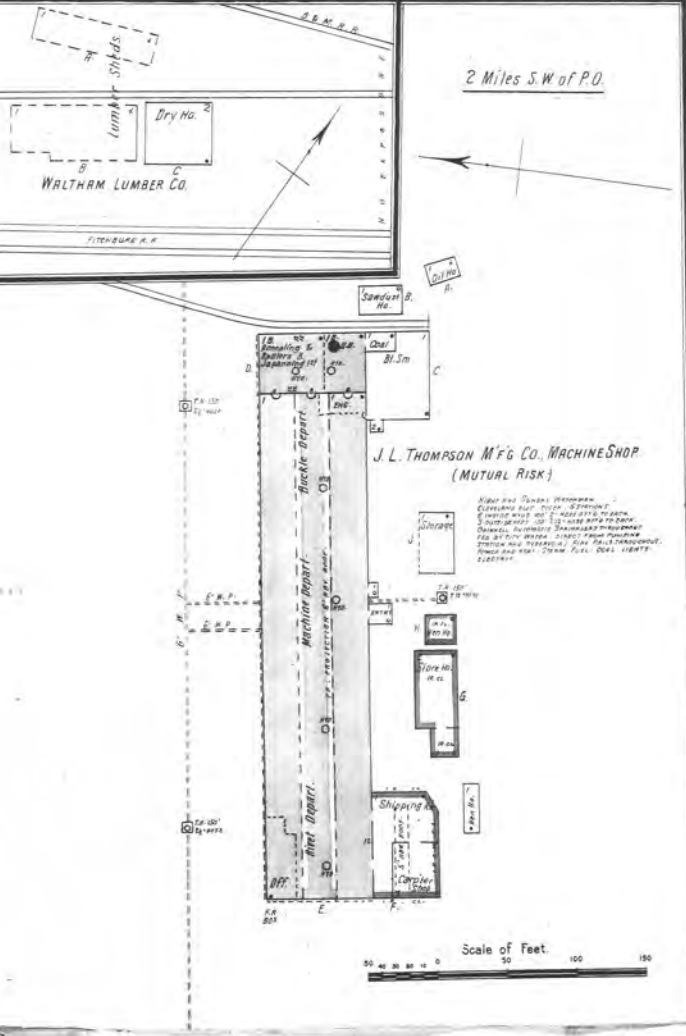
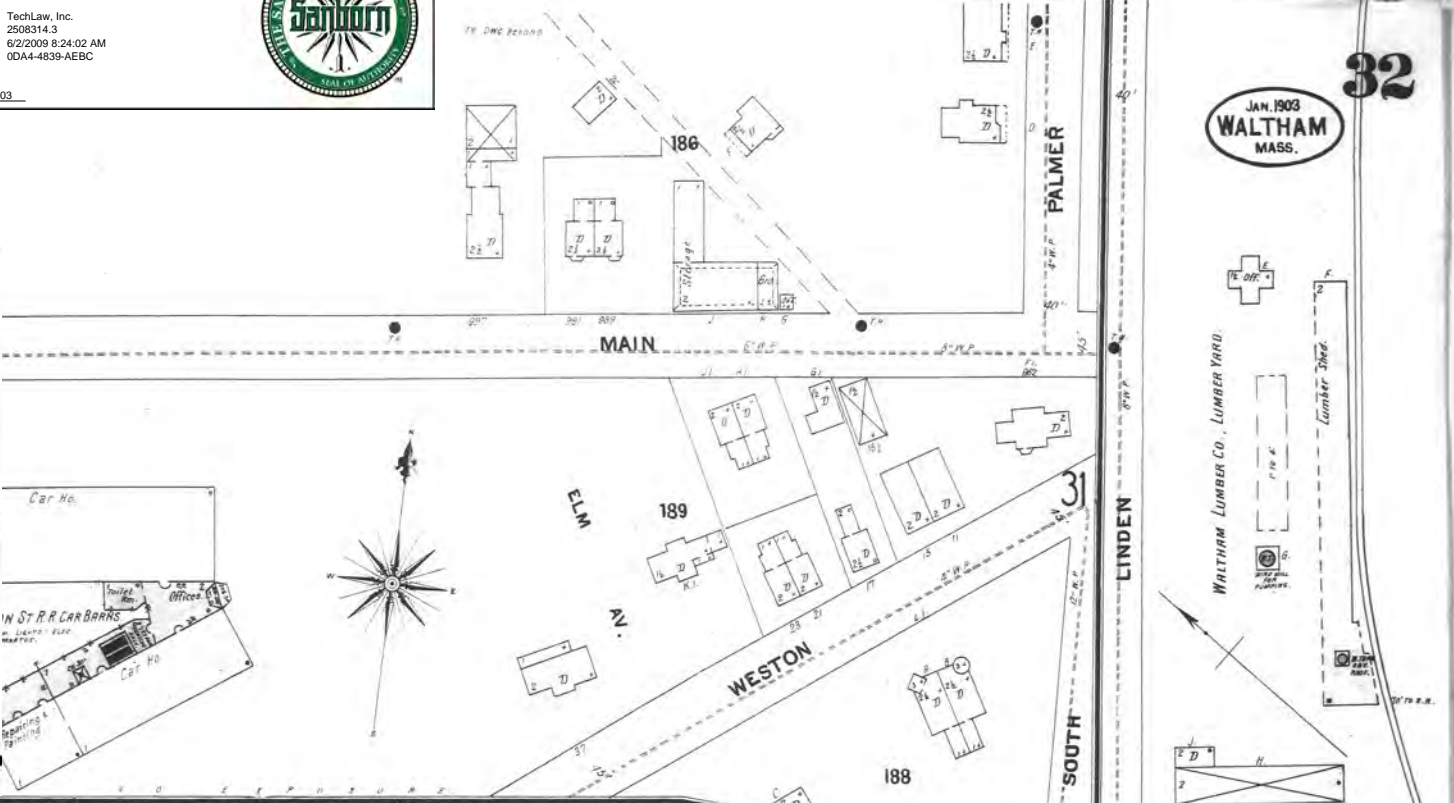
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 Address: 200 Trapelo Road
 City, ST, ZIP: Waltham MA 02452
 Client: TechLaw, Inc.
 EDR Inquiry: 2508314.3
 Order Date: 6/2/2009 8:24:02 AM
 Certification #: ODA4-4839-AEBC
 Copyright: 1903



32

JAN. 1903
 WALTHAM
 MASS.

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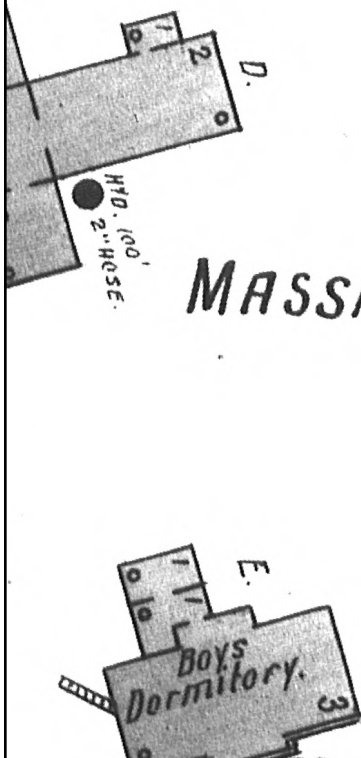
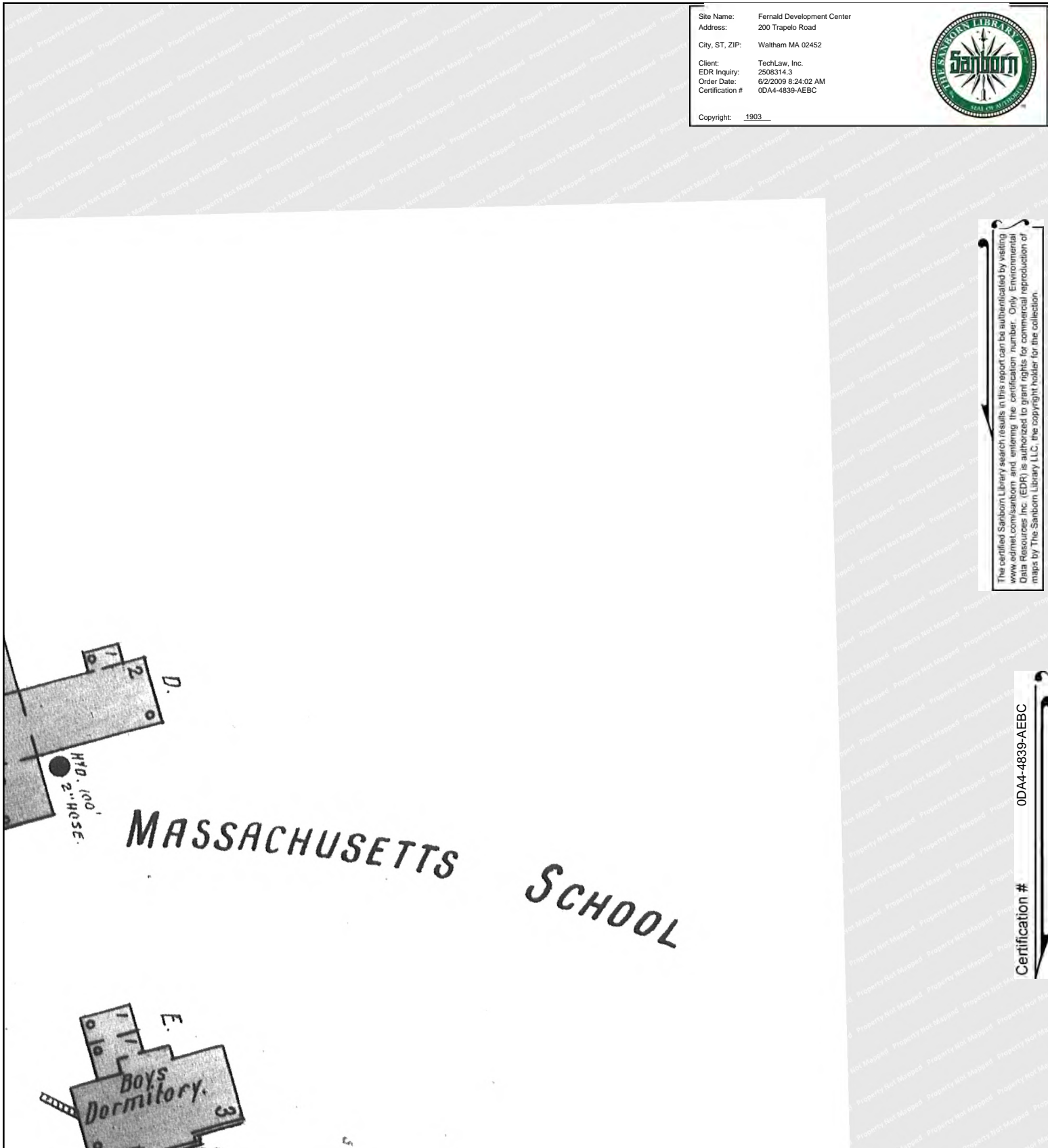
1903 Certified Sanborn Map

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Address: 200 Trapelo Road
City, ST, ZIP: Waltham MA 02452
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Certification #: ODA4-4839-AEBC
Copyright: 1903

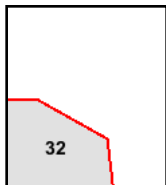
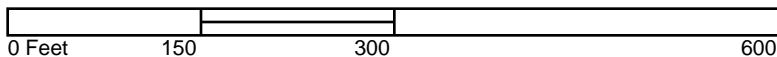


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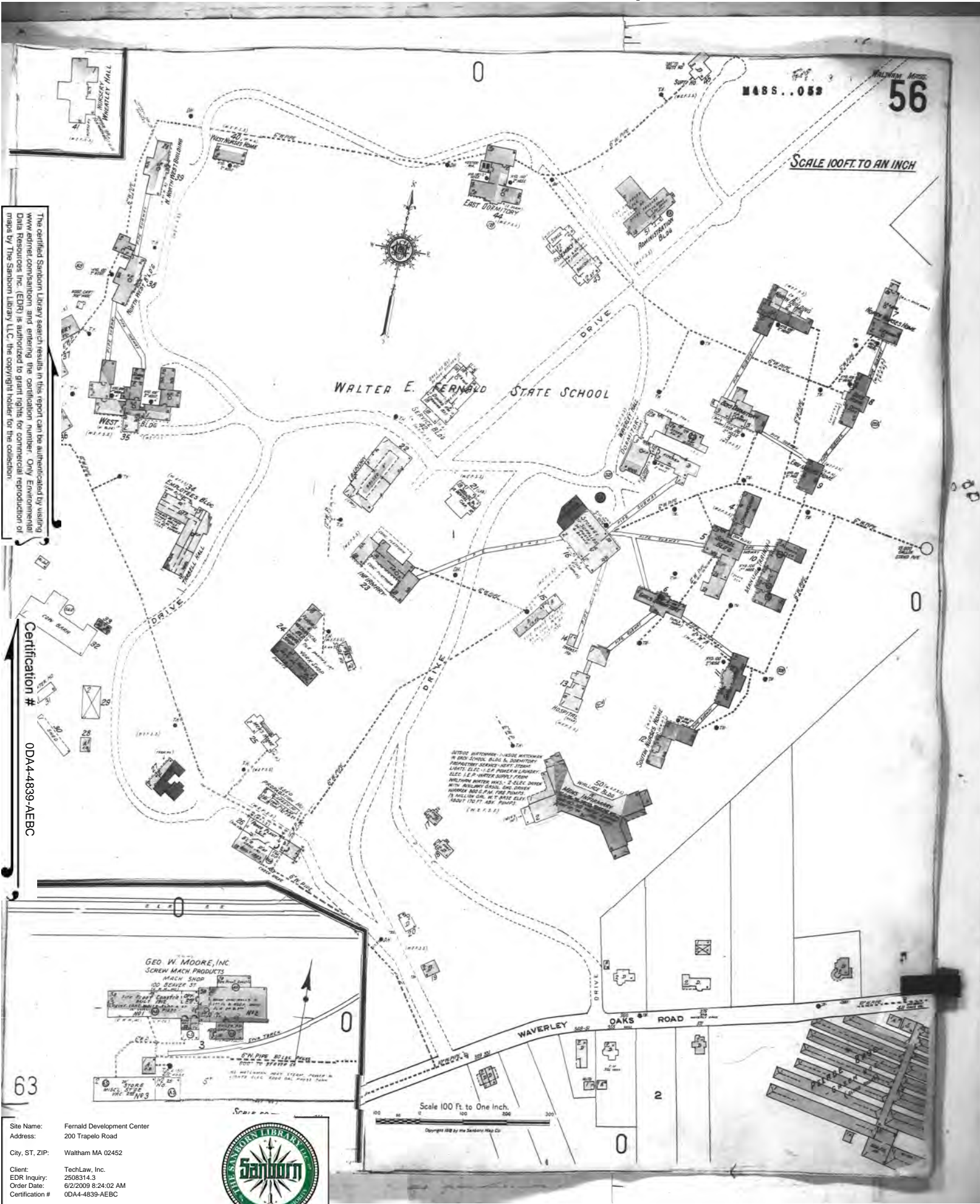
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Volume 1, Sheet 32

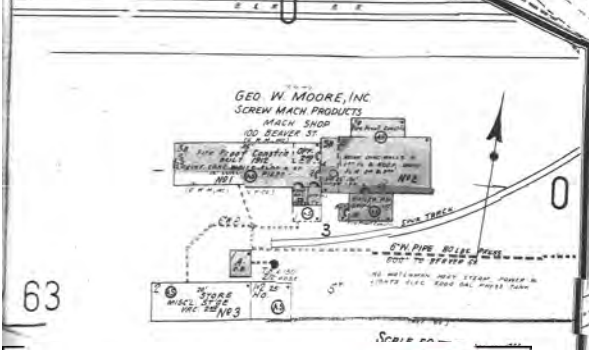


1950 Certified Sanborn Map



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 City, ST, ZIP: Waltham MA 02452
 Client: TechLaw, Inc.
 EDR Inquiry: 2508314.3
 Order Date: 6/2/2009 8:24:02 AM
 Certification #: ODDA-4839-AEBC



Copyright: 1950

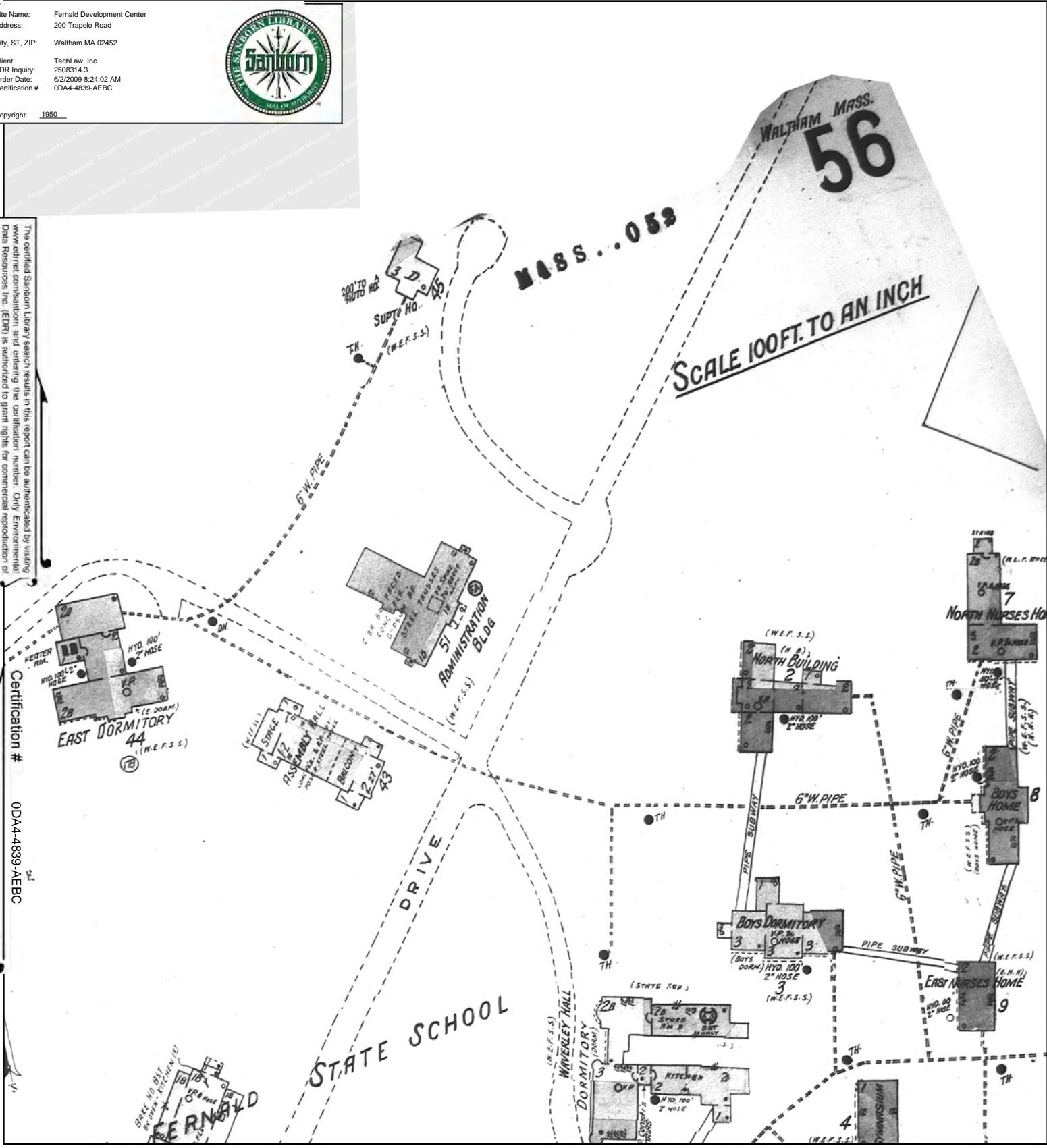
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Site Name: Fernald Development Center
 Address: 200 Trapelo Road
 City, ST, ZIP: Waltham MA 02452
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 EDR Inquiry: 2508314.3
 Order Date: 6/2/2009 8:24:02 AM
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 Copyright: 1950

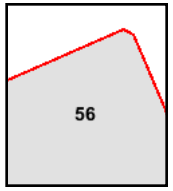
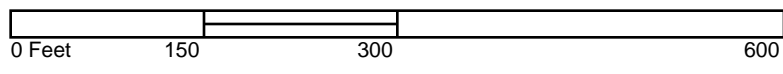


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Volume 1, Sheet 56



1918 Certified Sanborn Map

Waltham, Mass. 56

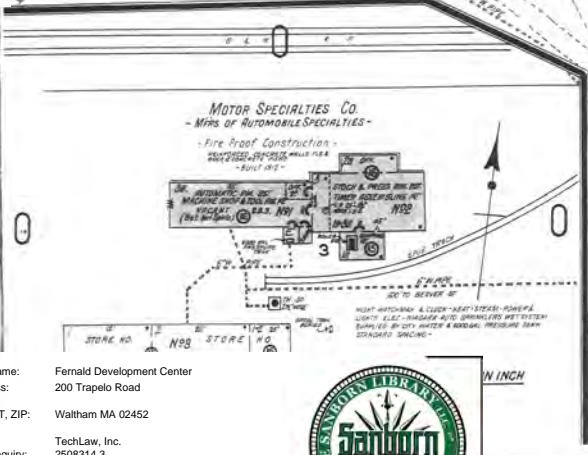
SCALE 100 FT. TO AN INCH

MASSACHUSETTS SCHOOL FOR FEEBLE MINDED

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OUTSIDE WATCHMAN / INSIDE WATCHMAN IN ALL SCHOOL BUILDINGS & BURNING WATER CLOSURE EACH HEAT TRIM - LIGHTS ELECT. LEAK POWER IN LINDSEY ELECT. LEAK - WATER SUPPLY FROM WALTHAM WATER WORKS CO. (SEE MAP) - ONE NORTHWEST CORNER BUILDING & DIVISION SOCIAL STEAM PUMPS - PUMPS CAN BE CONNECTED DIRECTLY TO WARDEN SYSTEM - FIRE TALLS & CHIMNEYS DISTINGUISHED BY HOOD NUMBER - ALL SHOWN - PRIVATE FIRE ALARMS ONLY.



Site Name: Fernald Development Center
Address: 200 Trapelo Road
City, ST, ZIP: Waltham MA 02452
Client: TechLaw, Inc.
EDR Inquiry: 2508314.3
Order Date: 6/2/2009 8:24:02 AM
Certification #: ODA4-4839-AEBC

Copyright: 1918

1897 Certified Sanborn Map

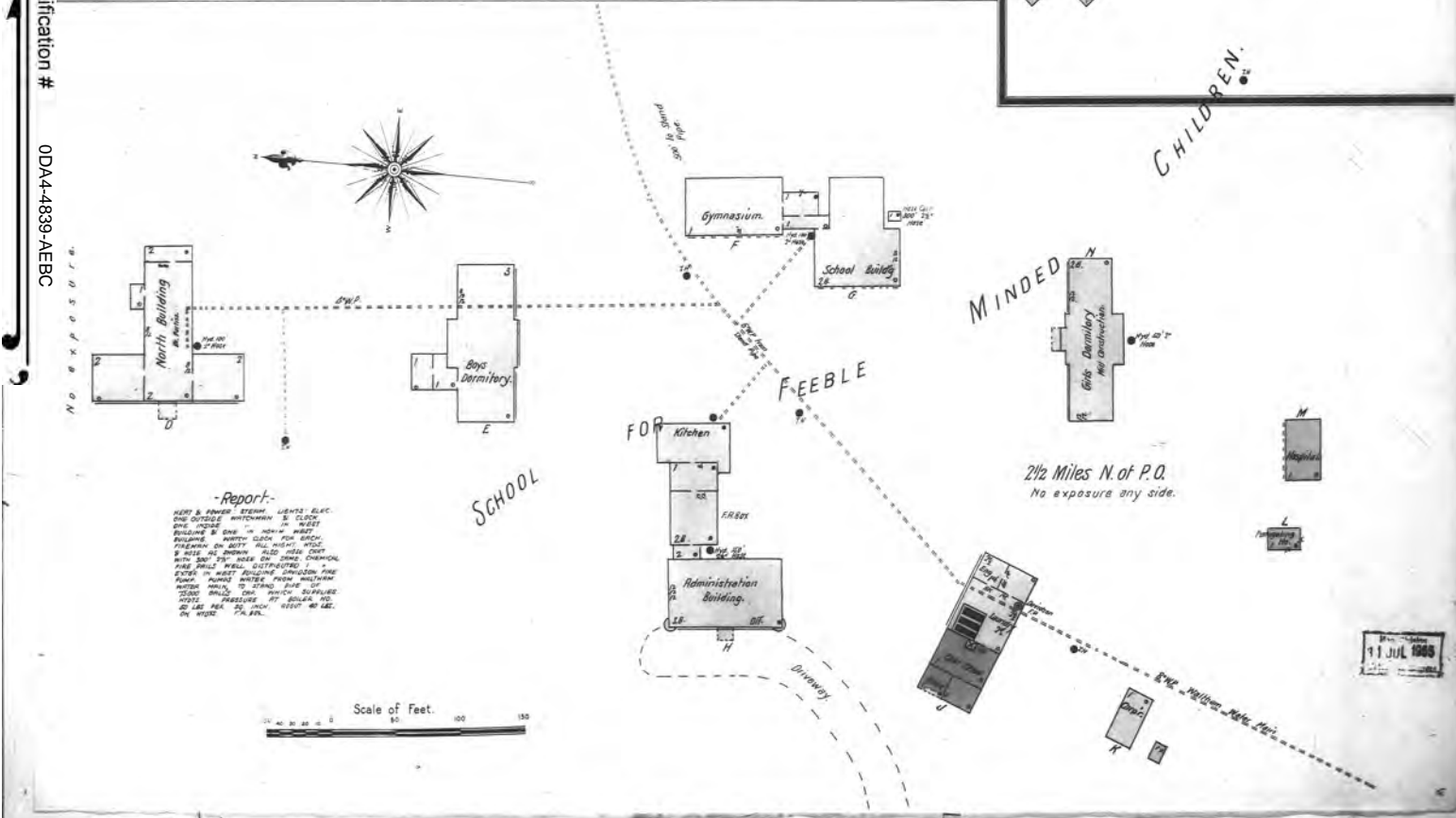
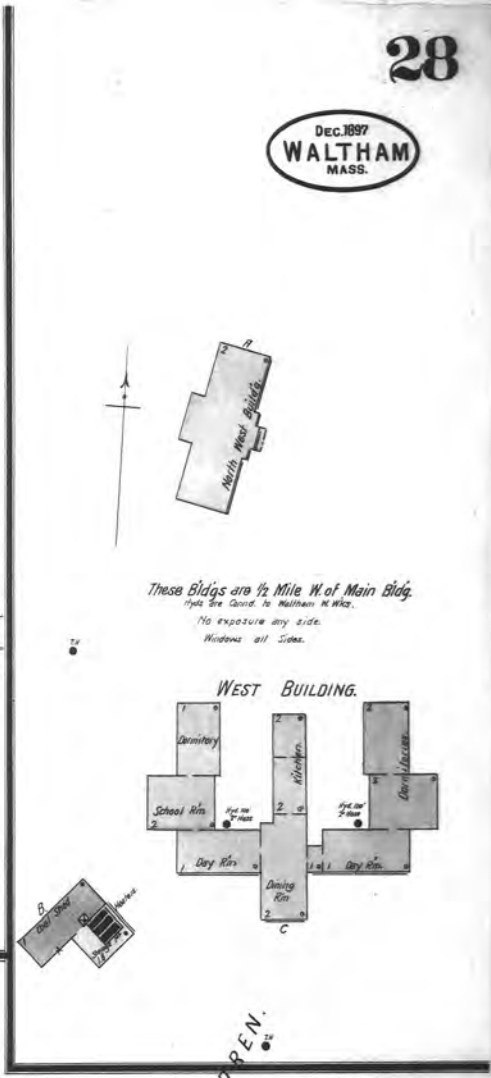
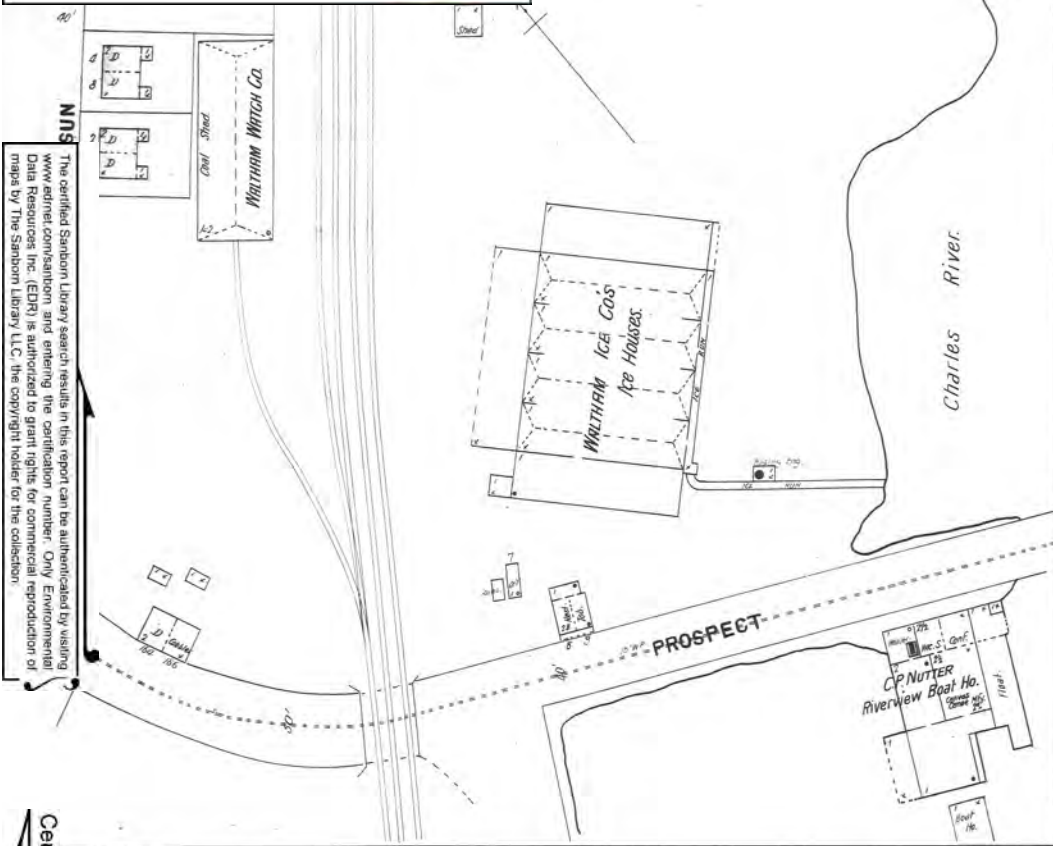
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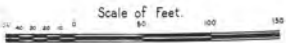
Copyright: 1897

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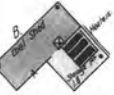
-Report-
 WEST & NORTH BUILDINGS - ALIC.
 ONE OUTSIDE WITCHMAN IN CLOCK
 BUILDING & ONE IN NORTH WEST
 BUILDING. NORTH WEST CLEAN FOR EACH
 FRESHEN ON BOTH ALL NIGHT. NOT
 IN USE. NO DRYING. SIDE WALK DOOR
 WITH 200' ST. SIDE ON DINGE CHEMICAL
 FINE FINE WALL. DISTRICTED
 ENTER IN WEST BUILDING JANUARY 1897
 NORTH BUILDING WHITE - FROM WALTHAM
 NORTH BUILDING 1897
 1897 BUILDING ONE WHICH SUPPLIES
 WITH PRESSURE AT 100 LBS. PER
 SQ. IN. FOR THE
 ON WEST



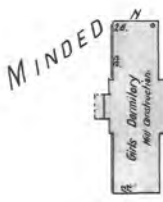
28

Dec. 1897
WALTHAM
 MASS.

These Bldgs are 1/2 Mile W. of Main Bldg.
 No exposure any side.
 Windows all Iron.



CHILDREN.



2 1/2 Miles N. of P.O.
 No exposure any side.

11 JUL 1965

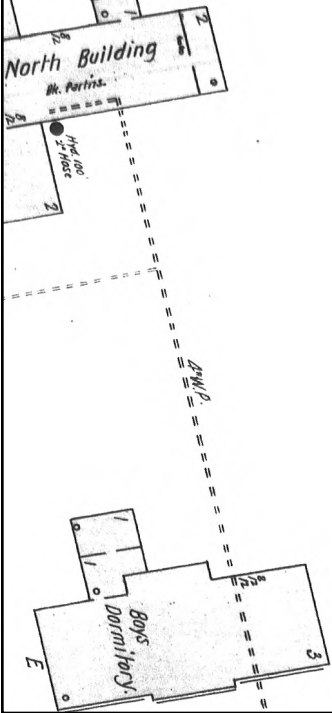
1897 Certified Sanborn Map

Site Name: Fernald Development Center
Address: 200 Trapelo Road
City, ST, ZIP: Waltham MA 02452
Client: TechLaw, Inc.
EDR Inquiry: 2508314.3
Order Date: 6/2/2009 8:24:02 AM
Certification #: ODA4-4839-AEBC
Copyright: 1897



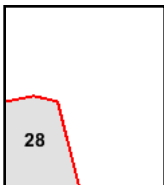
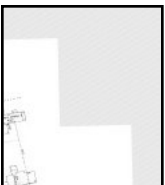
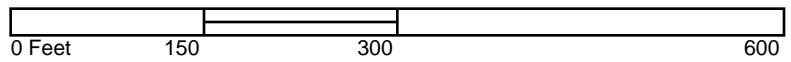
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posure.



Certification # ODA4-4839-AEBC

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Volume 1, Sheet 28



Fernald Development Center

200 Trapelo Road
Waltham, MA 02452

Inquiry Number: 2508314.6
June 02, 2009

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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with any questions or comments.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2005	Cole Criss-Cross Directory	X	X	X	-
2000	Cole Criss-Cross Directory	X	X	X	-
1995	Cole Criss-Cross Directory	X	X	X	-
1990	Cole Criss-Cross Directory	X	X	X	-
1985	Cole Criss-Cross Directory	X	X	X	-
1975	Cole Criss-Cross Directory	X	X	X	-
1970	Cole Criss-Cross Directory	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

200 Trapelo Road
Waltham, MA 02452

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Edco ESIS	Cole Criss-Cross Directory
	Eunice Kennedy Shriver Center	Cole Criss-Cross Directory
	Fernald League For Retarded Childre	Cole Criss-Cross Directory
	Fernald League Oprtnt Wkshp	Cole Criss-Cross Directory
	Flow Inc	Cole Criss-Cross Directory
	Marquardt Nursing Center	Cole Criss-Cross Directory
	New England Index	Cole Criss-Cross Directory
	Propax	Cole Criss-Cross Directory
	Sandras Lodge Family Shelter	Cole Criss-Cross Directory
	Shriver Center University	Cole Criss-Cross Directory
	Shriver E Kennedy Center For Me	Cole Criss-Cross Directory
	Walter E Fernald School	Cole Criss-Cross Directory
	Waverly Redemption Cntr	Cole Criss-Cross Directory
	2000	Amercn CO & Mncpl	Cole Criss-Cross Directory
Bristol Lodge Sp		Cole Criss-Cross Directory
Edco Esis		Cole Criss-Cross Directory
Eunice Knndy Shrvr		Cole Criss-Cross Directory
Fernald Lea Rtrdd		Cole Criss-Cross Directory
Flow Inc		Cole Criss-Cross Directory
Morrison Hlth Care		Cole Criss-Cross Directory
Newe Enngl Index		Cole Criss-Cross Directory
Sandras Lodge		Cole Criss-Cross Directory
Shriver Center		Cole Criss-Cross Directory
Tay Sachs Prvntn		Cole Criss-Cross Directory
Tufts Dntl Fcilty		Cole Criss-Cross Directory
Unicco Service Co		Cole Criss-Cross Directory
W E Fernald		Cole Criss-Cross Directory
Waverly Redemption Cntr	Cole Criss-Cross Directory	
1995	Amer Fed Mncpl Emp	Cole Criss-Cross Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	E K Shriver Cntr	Cole Criss-Cross Directory
	Fernald Retrd Chld	Cole Criss-Cross Directory
	Flow Inc	Cole Criss-Cross Directory
	Marriot Fac Mndg	Cole Criss-Cross Directory
	New Eng Index	Cole Criss-Cross Directory
	Shriver Ctr Clncs	Cole Criss-Cross Directory
	Tay Sachs Prvntn	Cole Criss-Cross Directory
	Tufts Dental Fclty	Cole Criss-Cross Directory
	Waverly Rdmpn Ctr	Cole Criss-Cross Directory
1990	Amer Fed Mncpl Emp	Cole Criss-Cross Directory
	Carl Bray	Cole Criss-Cross Directory
	Eunice Kndy Shrvr	Cole Criss-Cross Directory
	Fernald Retrd Chld	Cole Criss-Cross Directory
	Flow Inc	Cole Criss-Cross Directory
	Marriot Fac Mndg	Cole Criss-Cross Directory
	Mtrpltn St Hospital	Cole Criss-Cross Directory
	Shriver Ctr Clncs	Cole Criss-Cross Directory
	Tay Sachs Prvntn	Cole Criss-Cross Directory
	Tufts Dental Fclty	Cole Criss-Cross Directory
	WE Fernald School	Cole Criss-Cross Directory
	1985	Amer Fed Mncpl Emp	Cole Criss-Cross Directory
Bay Colny Cnstrctn		Cole Criss-Cross Directory
Concrete Constr Co		Cole Criss-Cross Directory
D P Donnelly Elc		Cole Criss-Cross Directory
David C Bunker		Cole Criss-Cross Directory
E Shriver Center		Cole Criss-Cross Directory
Fernald League		Cole Criss-Cross Directory
Fernald Workshops		Cole Criss-Cross Directory
Feteal Alchol Synd		Cole Criss-Cross Directory
Mtrpltn St Hosptl		Cole Criss-Cross Directory
Paxcucci Bros Co		Cole Criss-Cross Directory
Pritchard Sv Inc		Cole Criss-Cross Directory
Tay Sachs Preventn		Cole Criss-Cross Directory
Tufts Dental Fclty		Cole Criss-Cross Directory
Wexler Construction		Cole Criss-Cross Directory
1975	D H Project	Cole Criss-Cross Directory
	Dr B Ray	Cole Criss-Cross Directory
	Dr P Touchette	Cole Criss-Cross Directory
	Dr R H McClure	Cole Criss-Cross Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	Fernald Lge Rtrded	Cole Criss-Cross Directory
	Fernald Schl Activ	Cole Criss-Cross Directory
	Media Resource Ctr	Cole Criss-Cross Directory
	Shriver Mr	Cole Criss-Cross Directory
	W E Fernald Schl Em	Cole Criss-Cross Directory
	W E Fernald School	Cole Criss-Cross Directory
1970	Antonellis Inc	Cole Criss-Cross Directory
	W E Fernald School.	Cole Criss-Cross Directory
	West Nurses Home	Cole Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Trapelo Road

180 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Common Wealth Massachusetts Waverly Oaks Child Dev	Cole Criss-Cross Directory Cole Criss-Cross Directory
2000	Waverly Oaks Child Dev	Cole Criss-Cross Directory
1995	No Return	Cole Criss-Cross Directory
1990	No Return	Cole Criss-Cross Directory
1985	No Return	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory

185 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Residential	Cole Criss-Cross Directory
2000	Residential	Cole Criss-Cross Directory
1995	Residential	Cole Criss-Cross Directory
1990	Residential	Cole Criss-Cross Directory
1985	Residential	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory
1970	Residential	Cole Criss-Cross Directory

191 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Residential	Cole Criss-Cross Directory
2000	Residential	Cole Criss-Cross Directory
1995	Residential	Cole Criss-Cross Directory
1990	Residential	Cole Criss-Cross Directory
1985	Residential	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory
1970	Residential	Cole Criss-Cross Directory

208 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	Dr Hugo Moser	Cole Criss-Cross Directory

FINDINGS

211 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Residential	Cole Criss-Cross Directory
2000	Residential	Cole Criss-Cross Directory
1995	Residential	Cole Criss-Cross Directory
1990	Residential	Cole Criss-Cross Directory
1985	No Return	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory
1970	Residential	Cole Criss-Cross Directory

225 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Residential	Cole Criss-Cross Directory
2000	Residential	Cole Criss-Cross Directory
1995	Residential	Cole Criss-Cross Directory
1990	Residential	Cole Criss-Cross Directory
1985	Dr Amos Naor	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory
1970	Mass Social Worker	Cole Criss-Cross Directory

231 Trapelo Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Residential	Cole Criss-Cross Directory
2000	Residential	Cole Criss-Cross Directory
1995	Residential	Cole Criss-Cross Directory
1990	Residential	Cole Criss-Cross Directory
1985	Residential	Cole Criss-Cross Directory
1975	Residential	Cole Criss-Cross Directory
1970	No Return	Cole Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

180 Trapelo Road

208 Trapelo Road

Address Not Listed in Research Source

1970

1970



Fernald Development Center

200 Trapelo Road

Waltham, MA 02452

Inquiry Number: 2508314.4

June 01, 2009

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

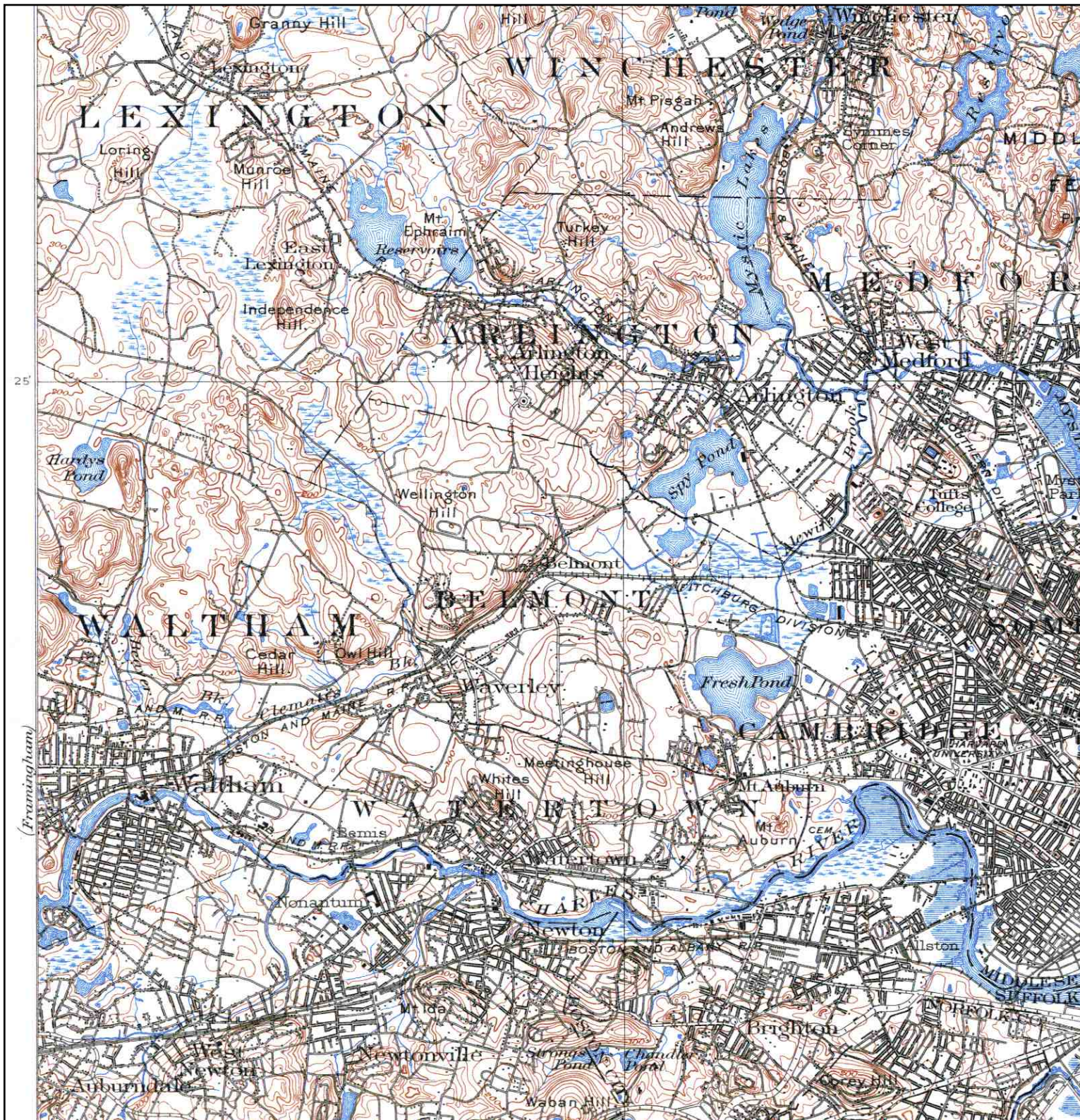
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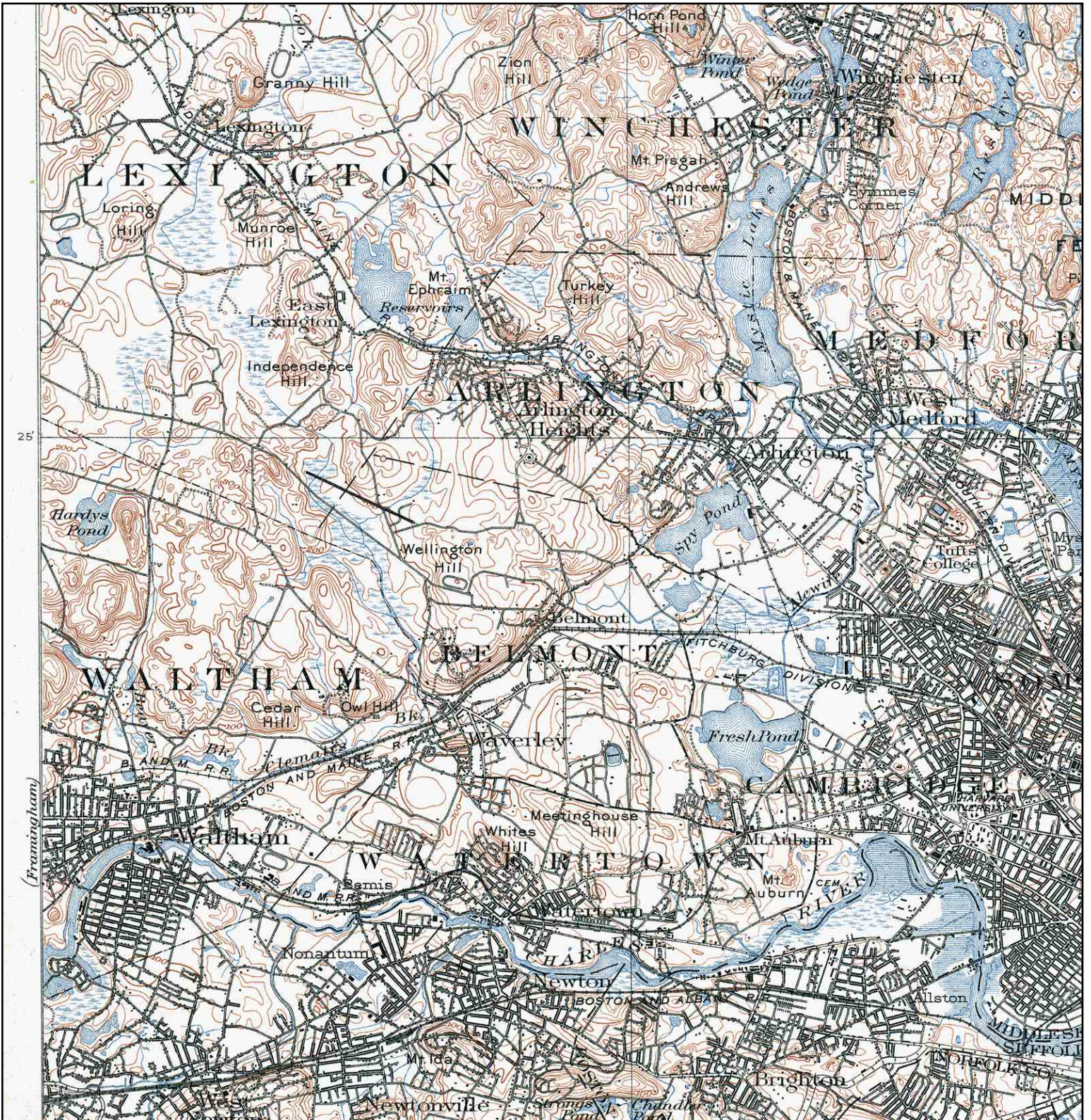
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Historical Topographic Map



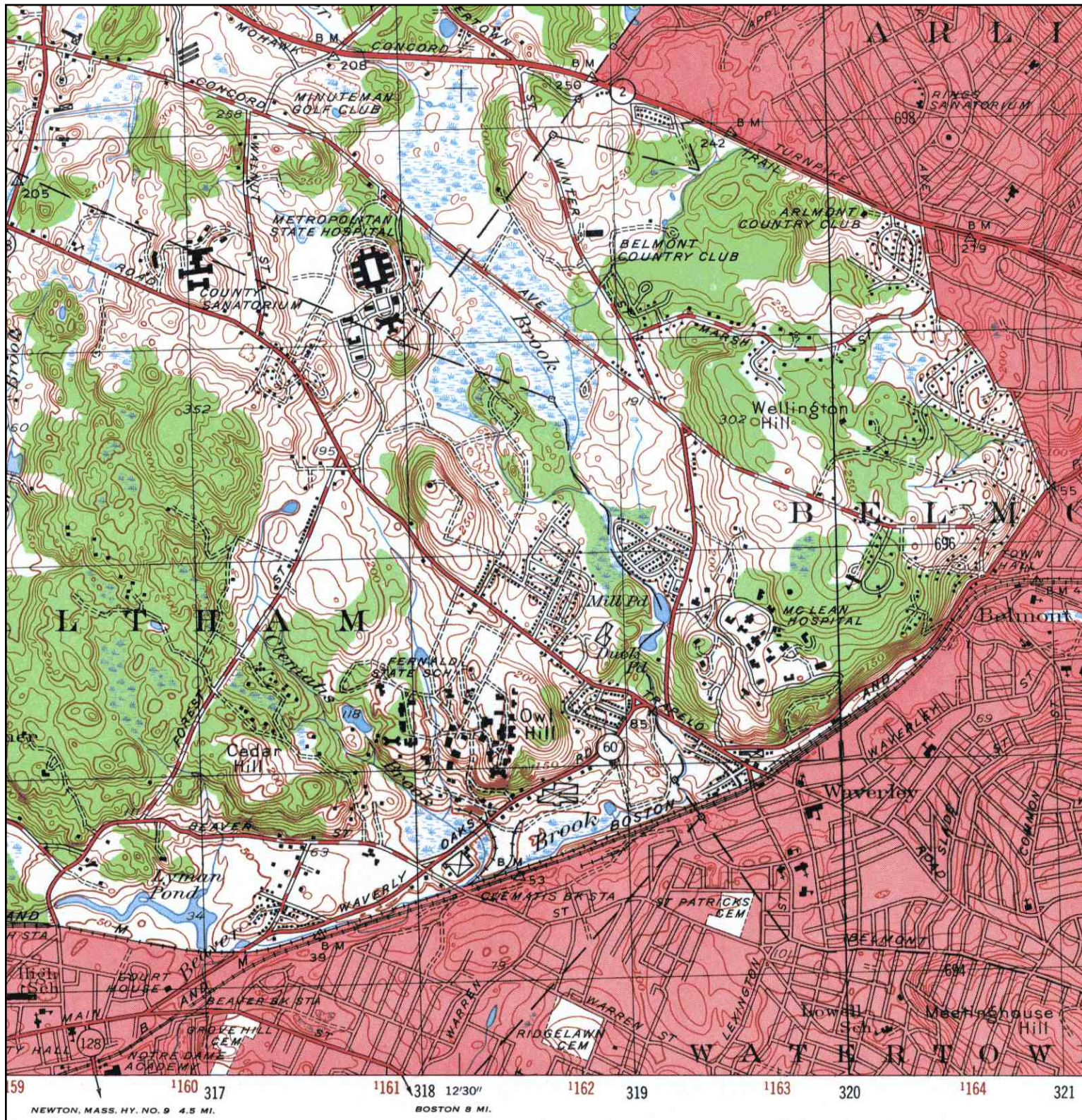
<p>N</p> 	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.
	NAME: BOSTON	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR: 1903	LAT/LONG:	42.3915 / 71.2068	INQUIRY#:	2508314.4
	SERIES: 15			RESEARCH DATE:	06/01/2009
	SCALE: 1:62500				

Historical Topographic Map



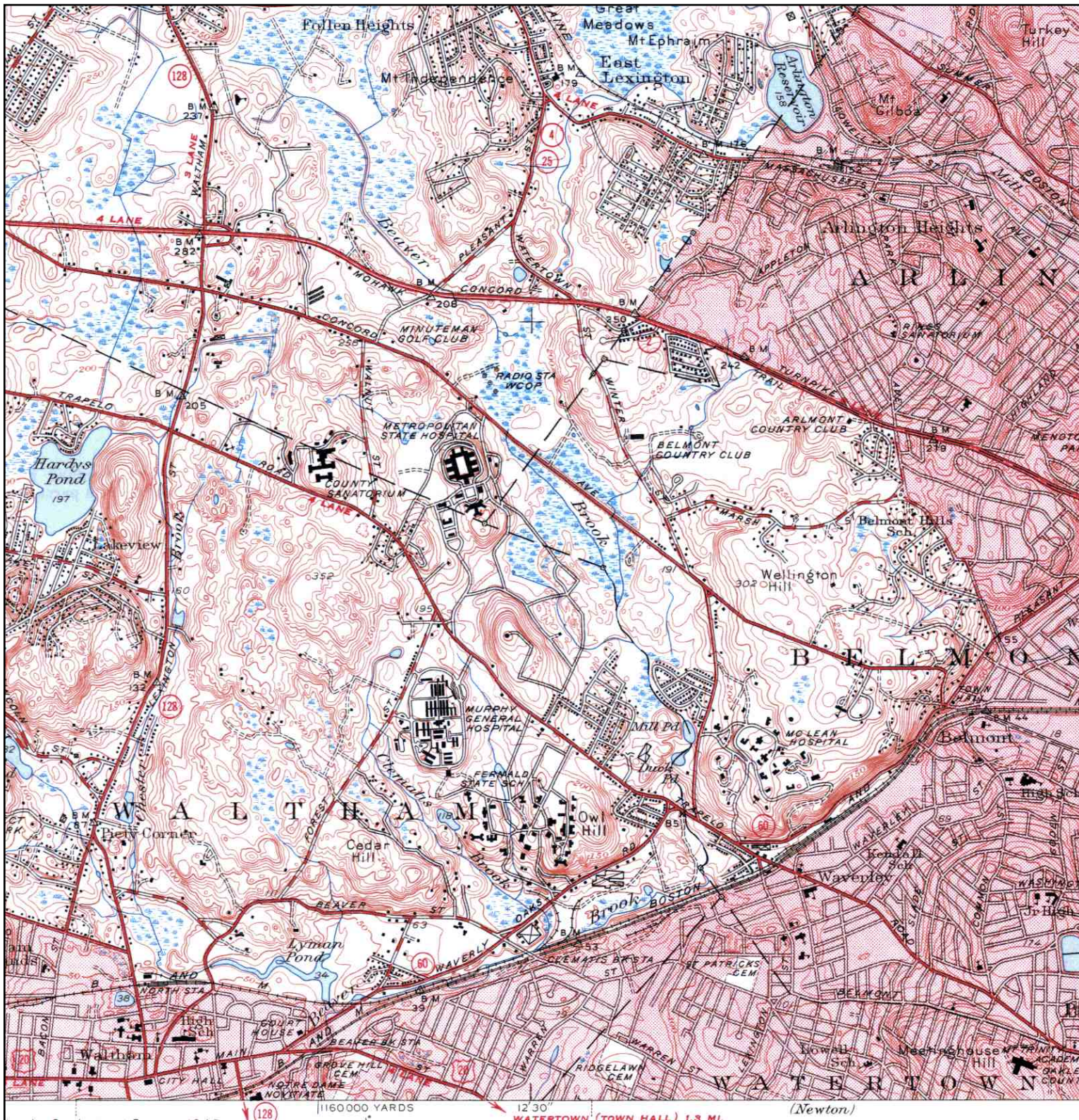
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.	
	NAME:	BOSTON AND VICINITY	ADDRESS:	200 Trapelo Road Waltham, MA 02452	CONTACT:	Melanie Littman
	MAP YEAR:	1903	LAT/LONG:	42.3915 / 71.2068	INQUIRY#:	2508314.4
	SERIES:	15			RESEARCH DATE:	06/01/2009
	SCALE:	1:62500				

Historical Topographic Map



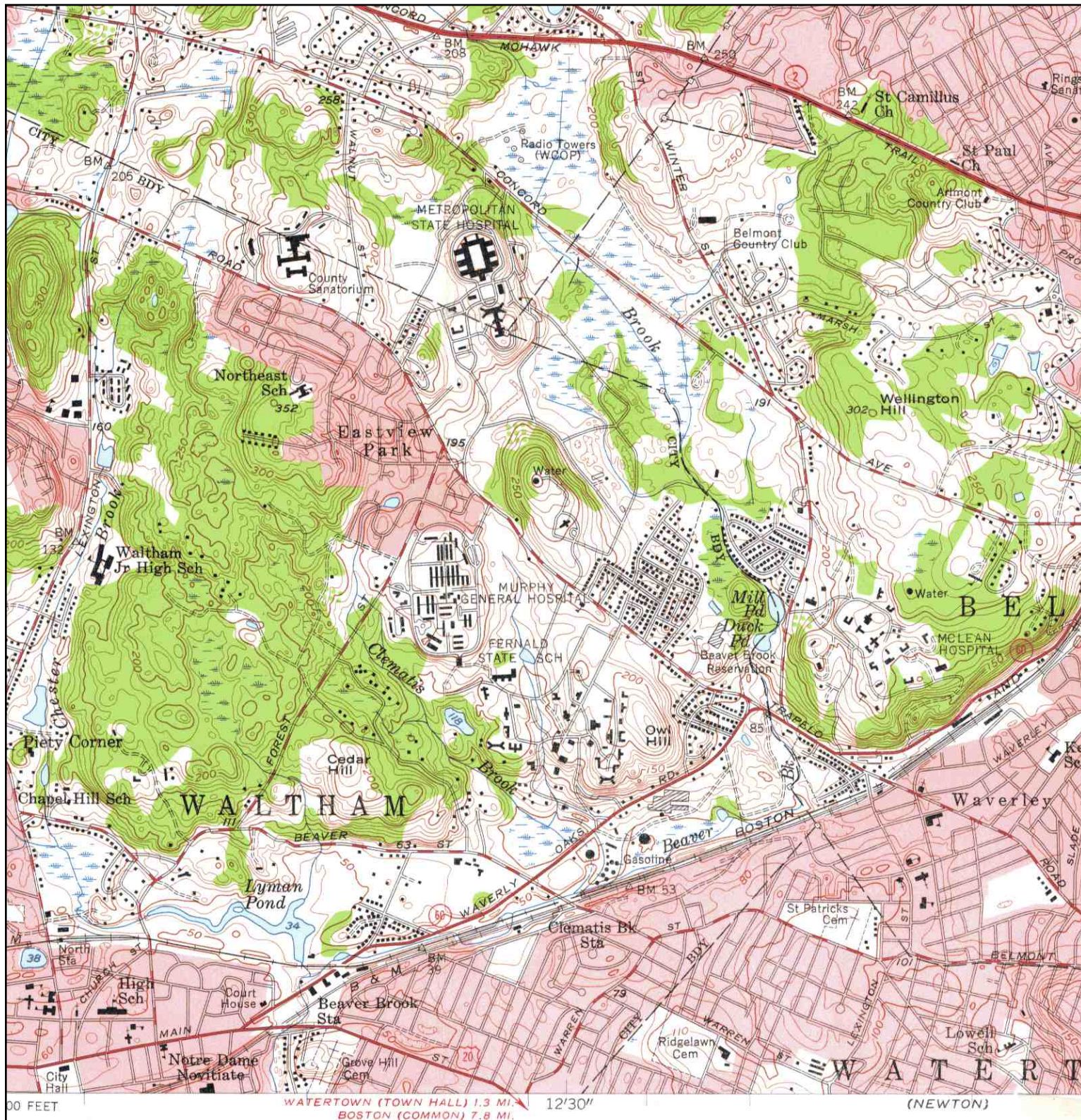
	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.
	NAME: LEXINGTON	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR: 1947	LAT/LONG:	42.3915 / 71.2068	INQUIRY#:	2508314.4
	SERIES: 7.5			RESEARCH DATE:	06/01/2009
	SCALE: 1:25000				

Historical Topographic Map



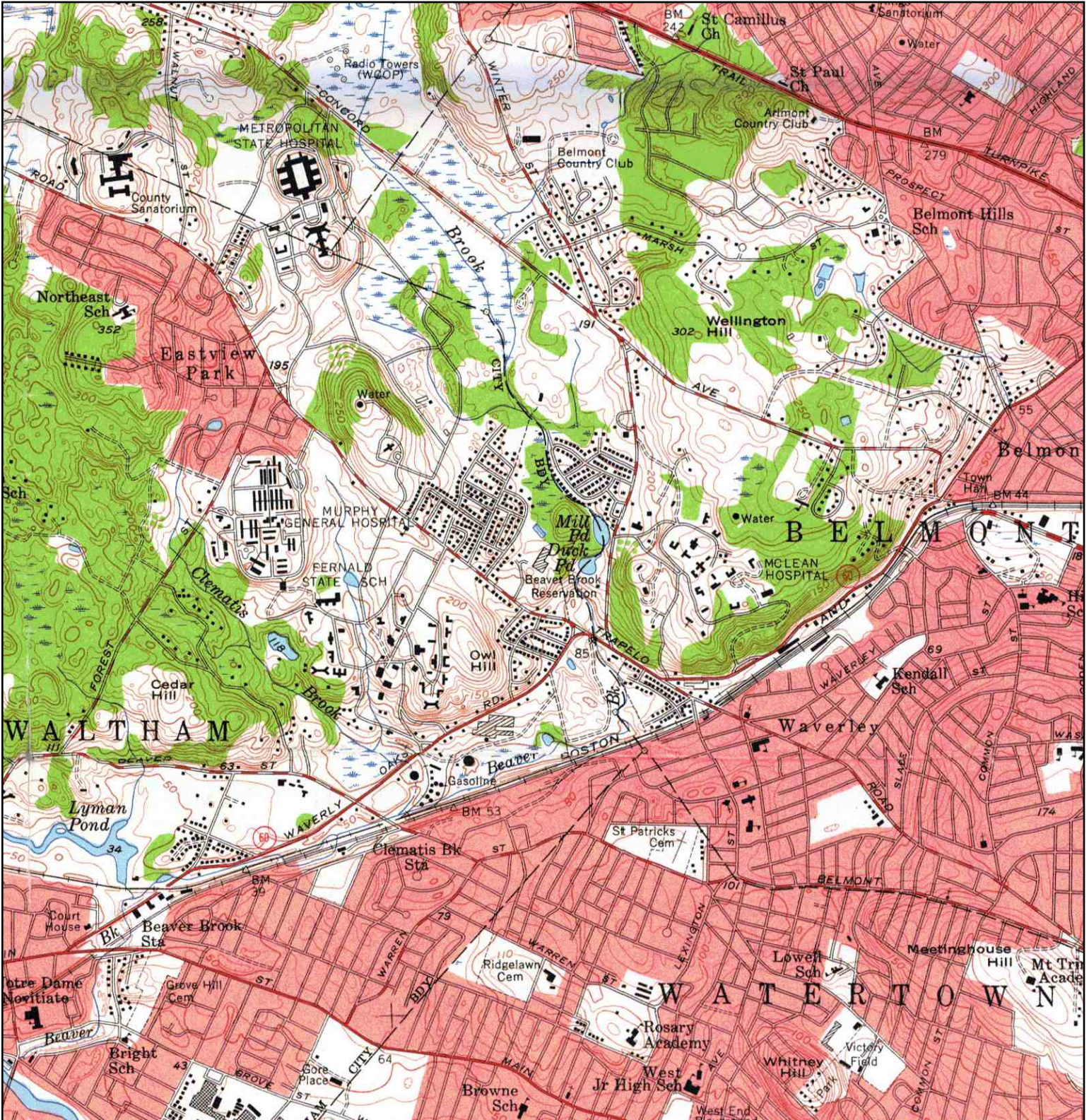
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.	
	NAME:	LEXINGTON	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR:	1950	ADDRESS:	Waltham, MA 02452	INQUIRY#:	2508314.4
	REVISED FROM:	1946	LAT/LONG:	42.3915 / 71.2068	RESEARCH DATE:	06/01/2009
	SERIES:	7.5				
	SCALE:	1:31680				


Historical Topographic Map



<p>N</p>	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.	
	NAME:	LEXINGTON	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR:	1956	LAT/LONG:	Waltham, MA 02452	INQUIRY#:	2508314.4
	SERIES:	7.5		42.3915 / 71.2068	RESEARCH DATE:	06/01/2009
	SCALE:	1:24000				

Historical Topographic Map



	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: BOSTON VICINITY 1 OF 4	Fernald Development Center	TechLaw, Inc.
	MAP YEAR: 1958	ADDRESS: 200 Trapelo Road Waltham, MA 02452	CONTACT: Melanie Littman
	SERIES: 7.5	LAT/LONG: 42.3915 / 71.2068	INQUIRY#: 2508314.4
	SCALE: 1:31680		RESEARCH DATE: 06/01/2009


Historical Topographic Map



	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.	
	NAME:	LEXINGTON	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR:	1971		Waltham, MA 02452	INQUIRY#:	2508314.4
	SERIES:	7.5	LAT/LONG:	42.3915 / 71.2068	RESEARCH DATE:	06/01/2009
	SCALE:	1:25000				

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Fernald Development Center	CLIENT:	TechLaw, Inc.
	NAME: BOSTON NORTH	ADDRESS:	200 Trapelo Road	CONTACT:	Melanie Littman
	MAP YEAR: 1985	LAT/LONG:	42.3915 / 71.2068	INQUIRY#:	2508314.4
	SERIES: 7.5			RESEARCH DATE:	06/01/2009
	SCALE: 1:25000				

Fernald Development Center

200 Trapelo Road
Waltham, MA 02452

Inquiry Number: 2508314.7
June 05, 2009

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

200 Trapelo Road
Fernald Development Center
Waltham, MA 2452

RESEARCH SOURCE

Source 1:

Middlesex Clerk
Middlesex, MA

PROPERTY INFORMATION

Deed 1:

Type of Deed: Deed
Title is vested in: Commonwealth of Massachusetts
Title received from: City of Waltham
Deed Dated: 10/2/1931
Deed Recorded: 10/22/1931
Book: 5600
Page: 550
Volume: NA
Instrument: NA
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: see exhibit

Legal Current Owner: Commonwealth of Massachusetts

Property Identifiers: R045-001-0001, R045-001-0001A

Comments: see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

The EDR Environmental LienSearch™ Report

Volume:

Instrument:

Comments:

Miscellaneous Comments:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous Comments:

Deed Exhibit 1

Middlesex ss..Oct. 22, 1931. 8h. 30m. A.M. Rec'd & Recorded.

TY OF WALTHAM
ORDER

At a special meeting of the City Council of the City of Waltham duly called, held July 21, 1931, it was ORDERED: That the Mayor be and hereby is authorized to execute a deed, conveying to the Walter E.Fern School a tract of land off Trapelo Road, being the rear portion of the Lawrence School lot and comprising about one and one-half acres. This order supersedes Order No 11583 Adopted July 21, 1931 Approved July 1931 A true copy Attest Elbert L. Greene (Elbert L. Greene) Assistant City Clerk - - - - -

Middlesex ss. Oct. 22, 1931. 4h. 36m. P.M. Rec'd & Recorded.

ITY OF WALTHAM
to

ALTER E. FERNALD
STATE SCHOOL OF
THE DEPT. OF
MENTAL DISEASES,
COM. OF MASS.

The City of Waltham, a municipal corporation duly organized according to law, of Middlesex County, Massachusetts, for consideration paid, grants to the Walter E. Fernald State School of the Department of Mental Diseases, Commonwealth of Massachusetts, of Waverley, Middlesex County, with QUITCLAIM COVENANTS the land in said WALTHAM bounded and described as follows: Beginning at the Northwesterly corner of the granted premises at a point in the dividing line between land of the grantor and land of the Roman Catholic Archbishop of Boston distant 615.60 feet Southerly from its intersection with the Southerly line of Trapelo Road thence running South 52 deg. 10 min. 30 secs. East along other land of the grantor 264.99 feet to land formerly of the Heirs of James F. Baldwin, now of the Commonwealth of Massachusetts; thence turning and running South 36 deg. 26 min. 40 secs. West along said land of the Commonwealth of Massachusetts 51.26 feet to a stone bound; thence running South 38 deg. 16 min. 40 secs. West along said land of the Commonwealth of Massachusetts 203.22 feet to a stone bound; thence turning and running North 48 deg. 33 min. 50 secs. West along other land of the Commonwealth of Massachusetts 265.15 feet to a stone bound at land of the Roman Catholic Archbishop of Boston; thence turning and running North 3 deg. 49 min. 30 secs. East along said land of the Roman Catholic Archbishop of Boston 237.76 feet to the point of beginning. The above described parcel contains 65,340 square feet and is shown on a "Plan of land off Trapelo Road, Waltham Massachusetts to be conveyed to the Commonwealth of Massachusetts by the City of Waltham", scale 1 in. = 80 feet dated December 1929 by George C. Brehm, City Engineer, to be recorded herewith. IN WITNESS WHEREOF, the said City of Waltham has caused its

Corporate seal to be hereto affixed and these presents to be signed in _____

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its name and behalf by Patrick J. Duane, its Mayor, hereunto duly authorized this 31st day of July 1931. City of Waltham by Patrick J. Duane Mayor (Corporate seal) Loretto J. McCarty - Witness to signature COMMONWEALTH OF MASSACHUSETTS Middlesex ss. Waltham July 31, 1931 Then personally appeared the above-named Patrick J. Duane and acknowledged the foregoing instrument to be the free act and deed, of the City of Waltham, before me Elbert L. Greene Notary Public (Notarial seal) My commission expires Nov. 4, 1934 - Approved as to matters of form and title Geo. B. Lourie Assistant Attorney General - - - - -

Middlesex ss. Oct. 22, 1931. 4h. 36m. P.M. Rec'd & Recorded.

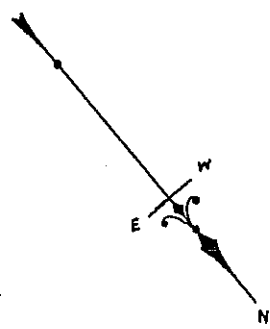
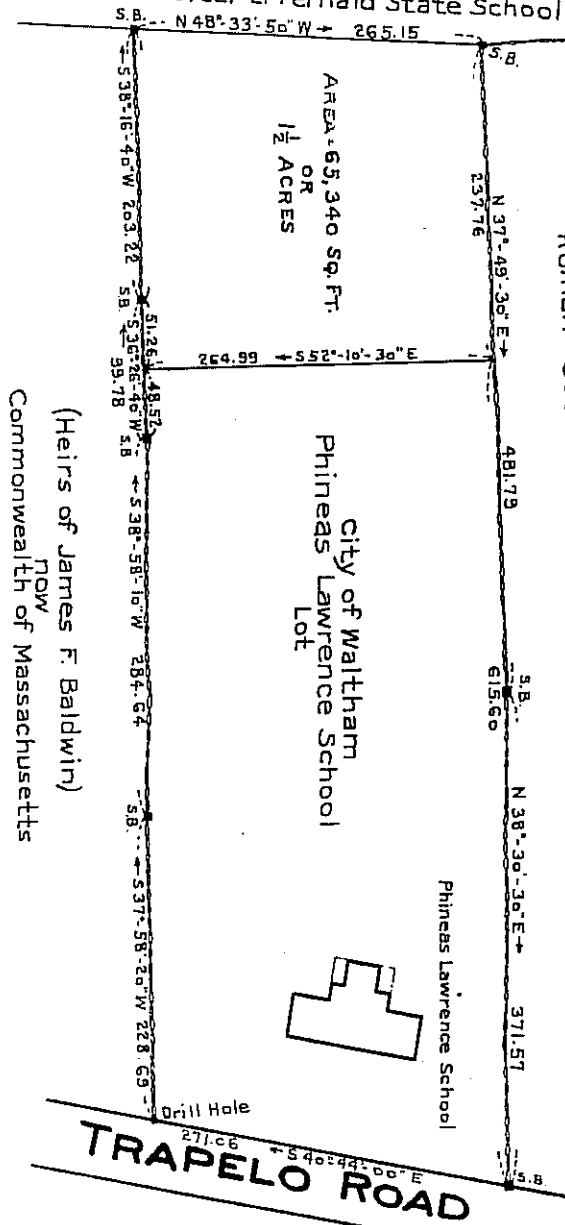
*FN of Instrument

Plan of Land
off
Trapelo Road
WALTHAM, MASS.
to be conveyed to the
Commonwealth of Mass.
by the
City of Waltham

Scale 1 inch = 80 feet December 1929

George C. Brehm City Engineer
Authorized Dec. 30, 1929 by City Council Order #11583
Superseded July 21, 1931 by City Council Order #12046

(Original on file.)
(Scale of this plan: 1 inch = 100 feet)
Commonwealth of Massachusetts
Walter E. Fernald State School



(Heirs of James F. Baldwin)
ROW
Commonwealth of Massachusetts

Roman Catholic Archbishop of Boston

Middlesex Registry of Deeds, So. Dist.
CAMBRIDGE, MASS.

Plan Number 950
Rec'd Oct. 22, 1931 at 4:36 P.M.
with Deed
City of Waltham
Mass. Dept. of Mental Diseases
Recorded Book 5600 Page 550

TRAPELO ROAD

EXHIBIT B-6

Application/Report National Register of Historic Places

United States Department of the Interior
National Park Service

DRAFT

**National Register of Historic Places
Registration Form**

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

Name of Property

Historic name Mass. School for Idiotic + Feeble-Minded Youth.
Other names/site number Walter E. Fernald State School

Location

Street & number 200 Trapelo Rd. n/a not for publication
City or town Waltham n/a vicinity
State Mass. code 025 county Middlesex code 017 zip code 02154

State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. I recommend that this property be considered significant nationally statewide locally. (See continuation sheet for additional comments.)

Signature of certifying official/Title _____ Date _____
State of Federal agency and bureau _____

In my opinion, the property meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

Signature of certifying official/Title _____ Date _____
State or Federal agency and bureau _____

National Park Service Certification

I hereby certify that the property is:

<input type="checkbox"/> entered in the National Register. <input type="checkbox"/> See continuation sheet.	Signature of the Keeper _____	Date of Action _____
<input type="checkbox"/> determined eligible for the National Register <input type="checkbox"/> See continuation sheet.	_____	_____
<input type="checkbox"/> determined not eligible for the National Register.	_____	_____
<input type="checkbox"/> removed from the National Register.	_____	_____
<input type="checkbox"/> other, (explain): _____	_____	_____

Name of Property

County and State

5. Classification

Ownership of Property (Check as many boxes as apply)

Category of Property (Check only one box)

Number of Resources within Property (Do not include previously listed resources in the count.)

- private
- public-local
- public-State
- public-Federal

- building(s)
- district
- site
- structure
- object

Contributing	Noncontributing	
_____	_____	buildings
_____	_____	sites
_____	_____	structures
_____	_____	objects
_____	_____	Total

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

Number of contributing resources previously listed in the National Register

Mass State Hospitals & Schools

0

6. Function or Use

Historic Functions (Enter categories from instructions)

Current Functions (Enter categories from instructions)

Domestic - Institutional Housing →

Education - Schoolhouse →

Religion - Chapel →

Health Care - Hospital →

medical office

7. Description

Architectural Classification (Enter categories from instructions)

Materials (Enter categories from instructions)

19th - Greek Revival

Late Victorian - Queen Anne

19th/20th Revivals - Col. Rev., Tudor Rev.

19th/20th American - Craftsman

foundation *stone, concrete*

walls *brick*

roof *wood-shingle, clap.*

asphalt; stone-slate

other _____

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Name of Property

County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
B Property is associated with the lives of persons significant in our past.
C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
D Property has yielded, or is likely to yield, information important in prehistory or history.

Areas of Significance

(Enter categories from instructions)

Architecture
Health/Medicine
Social History

Period of Significance

1888-1940
or 1848-1940

Significant Dates

1848 - founding of school
1888 - move to present site

Significant Person

(Complete if Criterion B is marked above)

Samuel Bradley Howe

Cultural Affiliation

Edward Jarvis
Walter E. Fernald

Architect/Builder

William G. Preston, Clarence P. Hoyt

Criteria Considerations

(Mark "x" in all the boxes that apply.)

Property is:

- A owned by a religious institution or used for religious purposes.
B removed from its original location.
C a birthplace or grave.
D a cemetery.
E a reconstructed building, object, or structure.
F a commemorative property.
G less than 50 years of age or achieved significance within the past 50 years.

Narrative Statement of Significance

(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
previously listed in the National Register
previously determined eligible by the National Register
designated a National Historic Landmark
recorded by Historic American Buildings Survey #
recorded by Historic American Engineering

Primary location of additional data:

- X State Historic Preservation Office
Other State agency
Federal agency
Local government
University
Other

Name of repository:

Name of Property _____

County and State _____

10. Geographical Data

Acreage of Property _____

UTM References

(Place additional UTM references on a continuation sheet.)

1	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
2	<input type="text"/>	<input type="text"/>	<input type="text"/>

3	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
4	<input type="text"/>	<input type="text"/>	<input type="text"/>

See continuation sheet

Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification

(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Candace Julians, Pres. Consultant

organization MHC date _____

street & number _____ telephone _____

city or town _____ state _____ zip code _____

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A Sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional items

(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of SHPO or FPO.)

name Comm Mass: DPH; DCPO; DFA; private parcel

street & number _____ telephone _____

city or town _____ state _____ zip code _____

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing

Description

Location/Setting: The Walter E. Fernald State School occupies a large 180 acre parcel of gently rolling terrain in Waltham near the Belmont (E) and Lexington (N) town lines. It is roughly bounded by Trapelo Road (N), Waverley Oaks Road (E), and Clematis Brook (S). Figure #1 shows the original extent of the site. State Route 2 runs north of the campus, while the Boston & Maine Railroad (MBTA commuter rail) is located to the southeast along Beaver Brook. In general, this suburban Boston area is densely developed with residential neighborhoods abutting the campus on the north and east, a light industrial area to the south on Waverley Oaks Road, and the Waverley Square commercial district a short distance to the east. Congestion is relieved by a major concentration of institutional uses including the Metropolitan District Commission's Beaver Brook Reservation (E), the Waltham Federal Center (W), Metropolitan State and Middlesex County Hospitals (NW), Bentley College (SW), and McLean Hospital (NE).

Landscape: The pleasant campus is ringed by low hills on the south, east and west which provide fine views for the perimeter buildings, and leave the central area and the Trapelo Road frontage relatively flat. The main drive approaches from Trapelo Road on a straight course that runs between the hills. It provides access to buildings that perform a campus-wide function like the Administration, Central Food Service, and Laundry buildings. Lateral roads curve up the hillsides to patient dormitories and nurses' residences. Typically, the rear drive from Waverley Oaks Road leads to the powerhouse and other support/maintenance buildings. Staff cottages are also located on a hillside in this area. There are no agricultural lands as there are at so many of the other campuses. The Templeton Colony (see form) was developed in 1899 to fulfil this function for the Fernald School. Hillsides are generally wooded while grassy areas between buildings are often devoted to playground use, reflecting Fernald's status as a state school rather than hospital.

As the second campus in the system to be developed on the cottage plan, it is developed with freestanding buildings dating from the 1890s to the present that are dispersed over the entire area. The earliest annual reports stated that buildings would not be arrayed in checkerboard fashion, but would follow the contours of the land, and be placed so as to allow southerly exposures for patient rooms.

Buildings: Most are relatively small scale with an average height of two to three stories, and are constructed of red brick with sandstone trim. Few buildings, with the exception of the non-contributing Shriver Center of 1969 (#103), are visible from the two major roadways, Trapelo Road (N) and Waverley Oaks Road (E), which border the campus. The others include three nineteenth century houses (#45, 51, 52), two of which pre-date the campus.

The earliest buildings, dating from 1889-1910, are characterized by fieldstone foundations (probably dug and fashioned by patients) and red brick construction with sandstone trim. Stylistically they reflect the Queen Anne style with Romanesque Revival or Craftsman overtones. They often display round arched window and door openings, corbeled cornices, abundant decorative brickwork, and overhanging slate hip roofs with exposed rafter ends. Most are sited on the south and east ridges. Typically they include dormitories for both patients and staff. Another large group of buildings dating from the 1920s and 1930s are designed in the Colonial Revival style that dominated state hospital and school construction at that time. Patient dormitories from this period are generally interspersed with the earlier buildings on the campus perimeter, while buildings serving campus-wide functions like the Administration Building (#47), and Food Service Building (#40) began to fill the central area. A group of single-family Craftsman style staff cottages were built at the rear entrance of the campus in 1925. The maintenance/utility group, which is also located at the rear entrance, dates primarily from the 1930s.

Another major building campaign of the 1960s added several large-scale buildings including patient care facilities like the 1969 Kelley Hall (100) and the 1953 Greene Unit (#50), and research/evaluation facilities like the 1969 Shriver Center (#103). The 1976 Cottage Complex (#107-117), consisting of one-story mansard-roofed duplexes represented a new approach to patient care that was followed up in the late 1980s with another group called Malone Park, and served as a precedent for similar developments at other school and hospital campuses.

Integrity: The historic integrity of the Fernald State School campus has been effected by a large amount of new construction and renovation. This is typical of the state schools which have been under court order to improve their facilities. Fortunately this new construction has not resulted in demolition of historic buildings, so the early character of the institution remains clear. Most new construction has been confined

#33: West Building (1889-90; figures #2, 3)

Located at the southwestern edge of the campus, the Queen Anne/Romanesque Revival style West building was the first to be constructed by the school. Known originally as the Asylum, it was built to house custodial cases. It is built on an E-plan with a two story central pavilion (originally containing the dining room) projecting from the south elevation as its organizing focus. Boys and girls wards were located in the east and west wings, respectively. The red brick building rises one to two stories from a fieldstone foundation to a slate gable and hip roof. It is trimmed with sandstone sills, beltcourses, and coping, as well as brick buttresses, corbelling, and decorative panels. The main entry, recessed behind a wide Romanesque Revival style arch, is located to the right of the dining pavilion. Windows contain a variety of multi-pane sash (6/6, 8/8, 9/9), are often paired, and are sometimes set in segmental arches. William G. Preston was the architect. In 1915, wooden floors were replaced with more sanitary and fireproof terrazzo over concrete, the plumbing was replaced, and a porch was added. It has been vacant for many years and is in poor condition. Additional information is included in the Significance section.

#34: Belmont House (1890)

The adjacent Belmont House is a small and simple rectangular plan ward that rises one story from a cast stone foundation to a steep hip roof extended on carved brackets. The entry with modern metal and glass door, is off-center on the north elevation. Windows display sandstone sills and lintels. This building was renovated in the early 1980s with 1/1 window sash replacing original 12/12, asphalt replacing slate roof shingles, and modern doors. It remains as a rather bland cube whose chief remaining feature, the roof braces, are hidden by a gutter. Belmont may be the original power plant shown in front of West Building in an early engraving (figure #2). It was named for a physician at the school, and was probably designed by Preston.

#1: Waverley Hall (1891)

One of the most prominent buildings on the southeast ridge is Waverley Hall which faces west toward the center of the campus over a broad sloping lawn. Waverley Hall served as the Administration Building until 1936 when it was converted to staff housing. It appears to have been enlarged several times, specifically by the two large rear ells projecting from its northeast corner. Designed by Preston in the Queen Anne style, it is constructed of red brick with corbelled cornice and sandstone trim including beltcourses, lintels, sills, and decorative carved panels. The main block rises three

stories from a fieldstone foundation to a flat or low pitched roof. Its facade (W) is organized with a six bay central section defined by massive paneled chimneys. The center entry consists of a double-leaf door with small pane sash fronted by a hip roof portico. Windows contain 6/6 sash. Third story windows are round arched with bricks laid in a diaper pattern above. A rounded bay is attached to the front south west-corner. The large ells are also constructed of red brick on fieldstone foundations and are ornamented with corbeled cornices; they may date to the early-twentieth century.

#3: Activity Center (1891; figures #4, 5)

Located immediately northeast of Waverley Hall and constructed in the same year, the Activity Center is similar in style and appearance. It is a three story, red brick structure resting on a fieldstone foundation and trimmed with a corbeled cornice, and sandstone sills and beltcourses. The eleven bay facade (S) is organized with a projecting five bay central section defined by exterior chimneys. Here the three central bays are slightly bowed within a massive round arched opening that rises above the hip roofed entry porch. The flanking sections display blind arches outlined by burnt headers that link first and second story windows, while the upper story is set off by a secondary corbelled cornice. The same features are found on the four bay side elevations. Windows generally contain 8/8 sash. This building was designed as a girl's dormitory by William G. Preston.

#4, 5: Schoolhouse (1891)

Located behind (E) Waverley Hall, the schoolhouse is a two story, red brick structure of irregular plan which shares many features with the buildings already described. These include fieldstone foundation, some round arched window openings, buttresses, and sandstone sills and beltcourses. The seven bay facade (W) is centered on an entry with sidelights and transom, and a shed roof porch supported on massive carved braces. It is flanked by paired windows whose round arched heads display herringbone pattern brickwork. Second story windows are conventional with a three-part window above the entry. Sash ranges from 6/6 to 8/8. A large hip roof wing extends from the north side while a flat roofed wing extends southward. The former displays buttresses dividing paired window bays while the latter exhibits the same details as the main block.

#6: Chipman (1892; figure #4)

Chipman forms the south side of a quadrangle with the buildings just described, and was also designed by Preston. Like its contemporaries, it is a red brick building with fieldstone foundation, and sandstone trim. It rises two stories to an asphalt hip roof. The symmetrical eleven bay north facade is focused on a projecting three bay center pavilion that contains an entry with open portico at the first story and a triple arched window above. This is framed by one bay and three bay sections, each of which are slightly set back. Windows contain 8/8 sash. Decorative panels separate first and second story windows. The building, which originally served as a girls' dormitory, was named for Catherine E. Chipman, Resident Psychologist in the 1930s.

#49: Stephen Bowen (1893, 1901, 1907)

Designed by W. G. Preston, this unusual one story ward is located south of the group just described. It consists of three attached square plan wings, constructed several years apart, enclosed by steep slate hip roofs with large chimneys. It is constructed of the typical 1890s materials including red brick walls and fieldstone foundation trimmed with corbelled cornices. Windows generally contain 6/6 sash; some are headed by transoms and some are paired. This building, was constructed as an infirmary for patients with contagious diseases, and demonstrates the general awareness of public health issues at the turn-of-the-century. Surprisingly, it closely resembles the early power plant and maintenance building at Monson (see form). Bowen was a Trustee in the 1930s.

Buildings from the 1900s to 1920s

Buildings from this period are interspersed among the earlier buildings and display many of the same characteristics including one to three story height, red brick construction, fieldstone foundations, slate gable or hip roofs, sandstone trim, and round arched door or window openings. Other features commonly seen on these buildings are overhanging roofs with exposed rafter ends, and burnt headers used to create decorative panels, quoins, and beltcourses. Most were built before 1910, and many were designed by William G. Preston.

#36, 37: MacDougall and Dolan Halls (1898, 1906)

Erected eight years apart, these nearly identical dormitories show how little building plans and ornamentation changed during the school's first twenty years. They are

both two story, red brick buildings of rectangular plan rising from fieldstone foundations to slate hip roofs. They are trimmed with corbeled cornices, sandstone lintels and sills, and burnt headers arranged in a variety of patterns. Both also have entries located in slightly projecting central pavilions, and protected by hip roof porches. The MacDougall entry is surmounted by a triple arched window, while Dolan's entry is surmounted by a triple window with diamond pane transoms. Dolan is also trimmed with burnt header quoins, presaging a transition to the Colonial Revival style. Mrs. Dolan was a long time matron in the building named for her, while Sarah MacDougall was matron of the Farm House in the pre-World War I period. Preston was the architect.

*11: Warren (1906)

Warren is a red brick structure that rises two stories from a fieldstone foundation to a slate hip roof. It is trimmed with the typical corbelled cornice and sandstone window surrounds as well as burnt header quoins and bands. The symmetrical nine bay facade is focused on center pavilion with canted sides that contains an entry with open portico at the first story and a triple window with small pane transom above. Windows contain 8/8 sash. L. Maude Warren was a physician in the 1930s. Preston was the architect.

Four similar Nurses' Residences were constructed in the early-twentieth century, a period when they appeared on most of the state hospital and school campuses. The East and West Homes are identical.

*9, 38: East and West Nurses' Home (1906)

Located on opposite sides of the campus, these three by seven bay rectangular plan red brick structures are typical of turn-of-the-century buildings at Fernald. They rise two stories from fieldstone foundations to a slate hip roofs with central and facade chimneys. Their nearly symmetrical facades are centered on transomed entries recessed within large round arched openings whose spandrels are picked out with burnt headers surmounted by triple arched windows. Windows with 8/8 sash display sandstone sills and splayed brick lintels. A burnt header beltcourse forms the sill for the second story windows. Preston was the architect.

#12: South Nurses' Home (1907)

The South Nurses' Home is the most elaborate of four such residences erected within a few years of each other (North Home, #7, 1904; East Home, #9, 1906; West Home #38, 1906). It is a two story, red brick building rising from a fieldstone foundation to an asphalt hip roof. Entries, recessed within round arched Romanesque Revival style openings, are located on both main elevations (north and west) of this L-plan building. Windows contain new 1/1 sash. Like the buildings from the 1890s, and the other nurses' homes, it is further trimmed with sandstone sills and lintels, and burnt header beltcourses and watertable. Preston was the architect. A concrete handicapped access ramp has been added to the west facade.

#10: Manual Training Building (1904)

This large red brick structure with lateral rear wings rises two stories from a fieldstone foundation to an asphalt hip roof. Flemish bond panels with burnt headers separate first and second story windows. The 16 bay west facade is organized with a projecting eight bay central pavilion, framed by four bay wings. The main entry is nearly centered on the facade where it is recessed within a large round arched opening and protected by a hip roof hood. A second entry occupies the outer south bay. Large windows, some of which are paired, contain 6/6 sash. Preston was the architect. See the significance section for a description of the activities housed in this building.

#42: East Building (1906)

East is a large T-plan ward that displays the typical turn-of-the-century Fernald materials and features including red brick construction, fieldstone foundation, slate hip roof with large interior chimneys, sandstone window surrounds, burnt header beltcourses, and round arched entries. The symmetrical thirteen bay south facade is focused on a five bay central entry pavilion. It is fronted by an open porch, and is surmounted by a large two story arched window. It is framed by paired windows, and four bay end sections. Preston was the architect.

#23: Lavers Hall (1914)

Lavers is a large red brick dormitory built on a U-plan with two enclosed pavilions projecting from the asymmetrical twenty-three bay east facade, and paired wings extending from the rear. Typically it rises one story from a fieldstone foundation to a slate hip roof with large interior chimneys, and is trimmed with sandstone. An entry with open porch is off center between the two pavilions. Large conventional windows

contain 12/12 sash. Harriet Lavers was matron of this building when it served its original function of infirmary for male patients. It was designed by James Calderwood.

#21: Southard Research Lab (1921)

This small rectangular plan lab with Craftsman style features is very similar to buildings constructed during the previous decade. It is a red brick structure that rises one story from a fieldstone foundation to an asphalt hip roof with interior chimneys that is extended on brackets. The entry is centered on the nine bay east facade where it is enclosed in a large glazed porch. Windows are segmentally arched and contain 8/8 sash. It represents the strong interest in scientific understanding of the etiology of mental disease that arose in the 1920s and 1930s; the school's first clinical research director was appointed in 1937. The building was designed by Kendall, Taylor & Co.

Buildings from the 1930s

Major new construction was initiated in the depression years as was the case at many other campuses. The buildings are designed in the popular Colonial Revival style, making a clean break with their Queen Anne influenced predecessors. They generally maintain the established two to three story height, and red brick construction, but generally replace the earlier fieldstone foundations, and sandstone or burnt header trim with cast stone. Many were designed by Clarence P. Hoyt. Wallace Hall (#46, 1936) was cited as a WPA project.

#40: Food Service Building (1931)

This large red brick Colonial Revival style structure consists of a dining room/headhouse at the south end, and a long kitchen ell extending to the rear (N). Both rise one story from high basements set off by sandstone waterables to gable roofs. The dining section displays bridged end chimneys, corner quoins, and arched windows in the three bay side elevations. The main entry is centered on the south facade where it is contained within a projecting five bay portico. Large windows contain multi-pane metal industrial type sash. It is extended by a two story, gable roofed ell with a flat roofed ell wrapped around it and projecting on the west side of the headhouse section. Hoyt was the architect.

#47: Administration Building (1933)

The thirteen by three bay Administration Building represents the full transition to the Colonial Revival style following a hiatus in major building during the 1910s and 1920s. It is a well detailed one story, red brick building rising from a high basement and watertable to a slate hip roof. Its thirteen bay facade (S) is organized with a center entry emphasized by a full pedimented portico surmounted by a cupola. The entry itself is distinguished by fluted pilasters, a pulvinated frieze, and broken pediment. Fenestration consists of round arched windows with 12/12 sash, rising from blank balustrades and surmounted by cast stone panels. Cast stone is also employed for keystones, corner quoins and watertable. An eleven bay wing with conventional 9/9 and 12/12 sash is centered on the rear elevation. The building received a flat roofed, two story rear ell c1965. Hoyt designed the original building.

#35: Seguin (1934)

Seguin is built on the double Y-plan that was pioneered at Metropolitan State Hospital, and became popular for infirmaries on several campuses in the 1930s, especially Monson (see form). It is a red brick Colonial Revival style structure that rises one story from a cast stone foundation to a slate hip roof surmounted by a cupola. An entry with portico is centered on the north facade. Window bays are defined by piers and corbelling; 6/6 sash has been replaced by 1/1. Designed by Hoyt, this building was named for the noted pioneer Edouard Seguin.

#39: Wheatley (1933)

This another red brick Colonial Revival style ward built on a popular 1930s plan, this time the modified E-plan used extensively at Wrentham. This building type served as nurseries, housing young children, at the three state schools. It rises one story from a cast stone foundation to a slate gable roof with central cupola. The main entry is centered on the east facade where it is fronted by a gabled wood portico and embraced by cross pavilions with corner quoins and Palladian windows. Windows contain 8/8 or 10/10 sash. Frank G. Wheatley of Abington was a Trustee at the turn-of-the-century, serving as board president in 1911.

Single-family staff dwellings

***43: Hillside/former Superintendent's House (1904)**

As its name implies, Hillside is sited on a rise overlooking the south campus. It is a large shingled Queen Anne/Colonial Revival style structure that rises three stories from a fieldstone foundation to a gambrel roof with modillion cornice and large center - chimney. The main entry with fanlight and open Tuscan porch is centered on the south gable end. It is now approached by a concrete handicapped ramp. Windows contain 15/1 sash except in the gables where the upper sash is diamond pane. Preston was the architect.

***17, 18, 19, 20: Cottages 17, 18, 19, 20 (1925)**

These nearly identical cottages are two story Craftsman style structures enclosed by gable roofs with exposed rafter ends and off-center chimneys. Enclosed entry porches with arched openings are centered on their three bay southwest facades. One story sunporches extend from their left sides. Windows contain 6/6 sash. Cottage #20 is sheathed with wood shingle while the others are stuccoed. They were built as staff residences, with Curtis W. Bixby as the designer.

Modern Buildings

The Fernald campus experienced major expansion in the second half of the twentieth century, especially in the 1970s.

***50: Greene (1953)**

Greene is one of the largest buildings on campus. Located on the western ridge, it is built on an irregular plan consisting of an E-shaped section with a large east wing extending northward. It is faced with red brick and rises three stories to a flat roof. Large windows are grouped in vertical or horizontal strips. The main entry faces south from the east wing. Dr. Ransom A. Greene was appointed superintendent in 1925 following Dr. Fernald's death.

***118, 119, 120: Brookside, Woodside, Site 5 (1981)**

These three nearly identical buildings are blocky one story structures faced with red brick and enclosed by flat roofs with vertical panel parapets. Large single pane

windows are arranged in banks. Woodside consists of two parts connected by an open International style type walkway.

*107-117: Cottage Complex (1976)

The cottage complex consists of eleven identical U-plan duplexes grouped at the north west corner of the campus near Trapelo Road. Swings, benches, and an open pavilion (#121) dot the lawn area between buildings. These one story structures are dominated by wood-shake covered mansard roofs that descend to window sill level, barely exposing red brick-faced walls. Windows contain 1/1 sash. Metal doors are located in the courtyards formed by the U-plans. These small-scale patient wards initiated a new era of more intimate and home-like living accommodations that is still being employed by the department for new construction at both the state schools and hospitals.

Historical Significance

The Walter E. Fernald State School possesses integrity of location, design, setting, materials, workmanship, feeling and associations. It was founded by Boston reformer Samuel Gridley Howe (1801-1876) in 1848 with an initial appropriation of \$2,500 from the state legislature, making it the first publicly supported institution for the mentally retarded in the Western Hemisphere. From humble beginnings in South Boston, the school grew in size and stature under the strong leadership of Howe and his successor, Dr. Edward Jarvis. In 1887 their achievements were recognized by the legislature with purchase of a large new campus in Waltham which was the second in the state to be developed on the cottage system, following the Lyman Reform School in 1884 (see form). Here, Dr. Walter E. Fernald (1859-1924), the third superintendent, led the school into the twentieth century, instituting new programs in education, psychology, social work, and scientific research. In 1925, the name of the school was changed from the Massachusetts School for the Feeble-Minded to the Walter E. Fernald State School in his honor. The Fernald School is unique in owing its development and stature chiefly to the dedication of its three renowned superintendents: Samuel Gridley Howe, Edward Jarvis, and Walter E. Fernald, who together, led the school from 1848-1924. The Fernald School clearly represents the development of the State Hospital and School System as described in the overview, and meets criteria A, B, and C of the National Register of Historic Places. It is significant on the local, state, and national levels with a period of significance extending from 1888 to 1940.

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The Fernald School was founded by Samuel Gridley Howe, a Boston native educated at the Boston Latin School and Brown University. Well known as a social reformer, Howe was involved in the Greek Revolution, and in developing educational programs for the blind before settling on his major life's work: advocacy of training programs and humane living conditions for the "feeble-minded". Howe was one of three commissioners appointed by the governor "to investigate the condition of idiots" in Massachusetts in 1846. Two years later, he was instrumental in securing the cooperation of the Massachusetts School for the Blind when the legislature appropriated \$2,500 annually for three years to teach ten "idiotic" children at some existing charitable institution as an experimental program. By 1850 the experiment had proved so successful that the Massachusetts School for Idiotic and Feeble-Minded Youth was formally established by the legislature with Howe as one of its incorporators. The following year, the state agreed to provide support at the rate of \$5,000 annually, a Board of Trustees was established, and Howe was appointed to the unpaid positions of Superintendent and President of the Board (Wallace 1941: 7-11).

In 1852, a mere four years after inauguration of the experimental program, the school moved to its own rented quarters in South Boston, and Dr. Edouard Seguin was persuaded to spend two months there developing programs and training teachers although he turned down the offer to stay on as Superintendent. Seguin, a Frenchman, was the first to successfully instruct "idiots" through a systematic training of the senses. He gained international recognition through publication of his "Treatise of Idiots" in 1846, and may be credited with sparking spontaneous interest in the condition and training of the "feeble-minded" throughout Europe and the United States (Wallace 1941: 12-13).

At the opening of the experimental school in Massachusetts, Dr. Howe described its goals thus,

It is proposed to show our reverence for God's plain will and to acknowledge the common brotherhood of man by taking these, the most unfortunate of His children, and attempting to lift them to a place upon the common platform of humanity. It is hoped to train them to cleanliness and decency, to prevent or root out debasing habits, moderate gluttonous appetites, and lessen the strength of the animal desires by substituting constant occupation for idleness.

To train all the senses, to strengthen the power of attention, develop the muscular system, and some degree of dexterity in simple handicraft. To call out their social affections, to inculcate feelings of regard for others in return for love and kindness shown them; to appeal to the

moral sense and to develop religious sentiment. It is to be hoped that part of them will gain useful knowledge, most of them become cleanly, decent, and industrious, and that all of them be better and happier for the efforts in their behalf (Wallace 1941: 10).

These goals were accomplished through Seguin's sense training methods and through adherence to a strictly regimented schedule, a program similar in many respects to those established by superintendents of "insane asylums" who believed in "moral treatment". At Howe's school, pupils rose at 5 A.M., breakfasted and prayed, then attended class from 8 A.M. until noon with one half-hour recess break. After dinner there was a recreation break until 2 P.M., then more classes until 5 P.M. The evening meal was followed by gymnastic exercise and bed (Wallace 1941: 13-14).

By 1856, exactly ten years after a commission was first appointed to study the condition of "idiots" in Massachusetts, the legislature was persuaded to appropriate \$25,000 for the purchase of land and erection of a permanent home. The trustees, electing to stay in South Boston because of its uncrowded condition and proximity to the salubrious effects of the sea, purchased a one and one-half acre site at the foot of L & M Streets and constructed a wood-frame school (Wallace 1941: 14). During the next twenty years the school grew in size and reputation under Howe's able leadership. According to the 1869 Annual Report, the population had grown to a daily average of 87 with a total of 108 treated during the school year. In 1871, cumulative statistics revealed that 465 pupils had been admitted since 1848, and 365 discharged. Additionally, numerous pupils had been refused admittance due to lack of space. By 1874 it was reported that the school was overburdened by its growing number of custodial cases and by applications for pupils from other states which either lacked schools entirely or had not achieved the exceptionally high caliber of the Massachusetts program.

At this period, Howe and the trustees described their school thus:

We wish the people would come and see what can be done with the seemingly hopeless cases. Here noisy, indecent, greedy, passionate children become quiet, cleanly, well behaved, more intelligent, and affectionate beings. Their indoor gymnastics, their exercise in the open air, their sea bathing, boating, racing, football on the playground --all serve to exhilarate the spirit, and to improve their health and carriage. The enforced cleanliness, the required habits of good deportment, which is seen in their improved manners. The effect is not limited to strengthening the bodily and mental powers; even the religious sense is developed and cultivated." (Annual Report of 1871).

On January 9, 1876, Howe died at age 75 and was succeeded by his former assistant, Dr. Edward Jarvis who identified four immediate needs for the school's continued growth and success (Wallace 1941: 25). These were:

1. opportunities for trained, discharged pupils to find outside working and living situations.
2. an "Asylum" for trained pupils who lacked outside situations
3. a separate institution or department for custodial cases
4. a new, large site for the school

In 1881 these needs were partially met by purchase of a 100 acre farm in Dover where older boys could be sent to live and work permanently (Wallace 1941: 29). In 1883 another goal was met with the establishment of a custodial department for untrainable adult patients and a change in the school's name to the Massachusetts School for the Feeble-Minded (deleting the word Youth). Both of these events reflect an important change in the school's mission, broadening its scope from the training of high functioning children, to include the care of chronic adults. This change in attitude, which is similar to that occurring at the state hospitals, appeared in annual reports of the 1870s, and was articulated in 1883 when the Trustees stated:

As already stated in our report of 1881, and in the report of the State Board of Health and Lunacy in 1882, the question of enlarging the operations of the School so they shall embrace not only the improvable but the unimprovable has resulted in the passage of an Act by the Legislature, which changes the name of the Institution..... and establishes a department of the School for an asylum for idiots beyond school age (Wallace 1941: 30).

Jarvis's major goal was not met until 1887, three years after his death, however, when the legislature appropriated \$25,000 to purchase a new site, and to hire a full-time resident superintendent. The trustees chose Dr. Walter E. Fernald to lead the school into a new era, and located an appropriate site in Waltham near the Waverley Station of the Fitchburg and Massachusetts Central Railroad. Two estates, including the 18 acre Bird Estate, were purchased for \$18,000 in 1887, with \$7,000 left in reserve for future land purchases. The legislature appropriated \$200,000 in 1888 to erect buildings for the school, a sum the trustees planned to supplement with sale of their South Boston and Dover properties. Fernald and the trustees decided to develop the school on the cottage system, citing the Willard Asylum in New York as a model (Wallace 1941: 35-36). They must also have been influenced by concurrent development of McLean Hospital just one mile distant which had been planned on the cottage system with the assistance of noted landscape architect, Frederick Law Olmsted. The only other example within the system at this time was the Lyman Reform School of 1884 in Westborough (see form).

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During 1888, an existing stone farmhouse was fitted out to accommodate 20-30 boys from Dover along with a farmer's family, who would help to prepare the site for general occupancy by digging drains and making roads. This model of an advance team of trained pupils from an existing school was later followed at Templeton (1899; see form), Wrentham (1906; see form), and Belchertown (1922; see form). In the meantime, ground was broken for the school's first building to be called the Asylum (now West Building; #33), which would house from 60-100 custodial patients. Plans were also made for a dormitory (#6), a gymnasium (#3), a schoolhouse (#4,5), a workshop, a boilerhouse (#34?), a laundry, a kitchen, and an administration building (#1). The architect for these buildings was William Gibbons Preston of Boston (figures #2-5). It was reported that these and future buildings would not be arrayed in "checkerboard" fashion, but would follow the natural contours of the land and be placed so as to allow a southerly exposure for patient rooms. No landscape architect was cited however (Wallace 1941: 36-39).

On March 6, 1890 the first 61 boys and girls were transferred from the custodial wards at South Boston to the new Asylum Building at Waverley. A few months later the new accommodations, and their beneficial effect on the patients, were described thus:

The Asylum now in use six months is very satisfactory. The building has proved to be all that was promised. The steam heating and ventilation seem almost perfect. The incandescent electric lights, furnished by our own electric plant, provide a form of lighting at once healthful, safe, and economical. The boys and girls were placed in two large sunny wards on the East and West wings respectively. They eat, sleep, and live on the ground floor with every access to shady groves and grassy lawns, which provide the privacy not possible in the city, or in their own homes.

When admitted, these children were noisy, stubborn, untidy, and intractable. One of them had not been outdoors for three years. Three had been in a barred room at home. Many were helpless, could not feed or dress themselves. They shrieked, tore, and destroyed their clothing, and the wards were bedlam. It was a apparently hopeless problem, but now a great and gratifying change has occurred. The careful day and night supervision has reduced the number of untidy beds at night and untidy clothing in the daytime. They are taking part in games, marches, and other exercises to fix their attention, and take great delight in these exercises.

Fifty-one of the older females are in the Asylum building and occupy two pleasant wards on the second floor. They are of great assistance and take great pride in the care of the younger helpless children.

On December 28, 1891, the last pupil was removed from South Boston and the long awaited move was completed (Wallace 1941: 40-42).

At Waltham, the patients' routines continued to embrace a mix of classroom education, manual and industrial training, and recreational activities such as formal gymnastics, musical events, dances, rhythmical drill, and competitive athletic contests. A domestic training program to teach girls cooking, washing, ironing, and general housekeeping was instituted in 1905 as a counterpart to the boys' training program (Wallace 1941: 65). A Manual Training Building (#10) was added to the campus in 1903, and expanded in 1908, reflecting the importance of these activities. Its functions were described thus in annual reports of the period:

The boys' classes occupy the first floor; one room for Sloyd, another mattress and pillow making; one to the actual making of useful articles at separate benches; one room contains tables where brush-making, sandpapering, net making, mat making and cane seating are done. Paining is also taught in this room -- one room is used for shoe repairing for the whole institution including Templeton. The Weaving Room has several looms where the boys weave first-class crash for towels, and serviceable rag rugs. There are stock boxes for material for each industry; also bulletin boards with lists of classes for the entire day.

The girls' department upstairs is organized with the same care. One domestic training room, class room for sewing; another large room contains the knitting machines, looms, tables for cutting and sewing rags, one for pillow and lace making, basket making, knitting, crocheting, with material for each class (Wallace 1941: 71).

Almost immediately, annual reports began to include mention of public health issues, reflecting the growing scientific knowledge about infectious disease, and public concern with controlling its spread. Outbreaks of typhoid and scarlet fever in 1891 led the trustees to request funds for a small contagious diseases hospital, a structure (#49) that was completed in 1893, and expanded in 1901 and 1907 (Wallace 1941: 41). A diphtheria epidemic in 1896 resulted in the use of anti-toxins for the first time (Wallace 1941: 55). Influenza became a major problem during World War I, with the first of 833 cases reported on September 17, 1918; 85 patients died (Wallace 1941: 95). By the 1930s, the incidence of contagious disease was greatly lessened by the availability of various tests, such as the Schick and Dick tests which detected diphtheria and scarlet fever, allowing new patients to be inoculated when necessary (Wallace 1941: 141).

The school entered the twentieth century expanding its innovative programs rapidly and retaining its national and international stature. A school department with graded

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classes was opened in 1892 (Wallace 1941: 42). Teaching clinics for Tufts and Boston University Medical School students were instituted in 1903, expanding the program initiated in 1884 with Harvard (Wallace 1941: 32, 61). A formal parole or vacation system was adopted in 1912 along with the new position of field or social worker to supervise pupils with outside placements. At the same time an out-patient clinic was established, further strengthening community ties. By 1915 monthly clinics had been started in Worcester, Fall River, New Bedford, and Haverhill, and that year the school held a total of 32 clinics involving 743 patients (Wallace 1941: 92). Patients' health needs were treated more scientifically in a small hospital (*49; 1893, 1901, 1907) as methods and products developed by the State Board of Health, such as diphtheria antitoxin were employed in 1915, and tuberculosis tests were introduced in 1920 (Wallace 1941: 90, 100). More complete profiles of the patients' mental condition were also made available through the use of new psychological tests such as the Binet-Simon and the Intelligence Quotient (Wallace 1941: 82; 104). X-ray examination of the brain was introduced as a diagnostic tool in 1920 (Wallace 1941: 100). Dental Clinics, held by Tufts University, were established in 1917 (Wallace 1941: 94). The first women physicians -- Drs. Anna M. Wallace and Edith Woodill -- were appointed in 1907 (Wallace 1941: 68). A training course for attendant nurses was established in 1929 (Wallace 1941: 145), and a research department was established in 1937.

As early as 1905, the British Royal Commission on the Care and Control of the Feeble-Minded provided the following glowing report on the Fernald School to the American Institutions for the Feeble-Minded.

This is a most interesting institution, embodying in itself the whole history of American methods of dealing with the feeble-minded from its earliest beginnings in the training school for the idiot to its latest development, --the colony (Templeton) for the permanent custodial care and employment of defectives unfit for free life. Its superintendent is Dr. W. E. Fernald, who is not only one of the greatest authorities in the United States of America on the medical aspect of the care of mental defectives, but is an institutional manager of great energy, enthusiasm, resource, and capacity (Annual Report, 1905).

As is apparent from the foregoing quote, the British Commission was particularly interested in the school's custodial farm colony in Templeton (see form), a department continually described in Annual Reports as its most successful.

The early-twentieth century was a period of major growth as applications for admission rose from 142 in 1889 to 484 in 1911 (Wallace 1941: 76). This reflected the expanded mission of the School to accept chronic, pauper, delinquent, epileptic, and physically

disabled cases that were not considered suitable for training, but nevertheless were in need of proper humane care. To meet the increased demand, it was decided to increase the total patient population from 600 to 1000 in 1896 (Wallace 1941: 50). The School's change in philosophy was intertwined with a growing societal fear of increased deviancy, as science illuminated the role of heredity, and began to link feeble-mindedness with crime, pauperism, and immorality. Annual reports of the period continuously cited the problems caused when mentally deficient patients were transferred from the state reform schools. They also stressed the need to provide institutional protection for adult females to prevent their bearing defective children, and to segregate adult male and female patients within the institution. Dr. Fernald was a national leader in exploring the problems of morally and mentally deficient children, and in promoting eugenics.

The results of the growing patient population are seen in several ways. One is in the establishment of other facilities including the Templeton Farm Colony for chronic adult males (1899), the Wrentham School (1907), the Belchertown School (1915-22), and institutions in all of the other New England states during that period. The other is in the major building campaign that transformed the Waverley campus between 1895 and 1925. New buildings included several patient dormitories to support a total population of just over 1,000; staff housing including a superintendent's residence as well as dormitories for nurses and attendants; medical, educational, and recreational facilities; and support buildings including a power plant, laundry, kitchen, and dining room. The depression slowed construction which resumed in the mid-1930s. At least one building, Wallace Hall (#46; 1936), was constructed by the Public Works Administration (Wallace 1941: 147).

In 1924 Dr. Fernald (1859-1924) died after 37 years of service to the school. The following year, Chapter 293 renamed the institution as the Walter E. Fernald State School in his honor. As the British Commission had noted in 1905, Fernald was a renowned authority on mental retardation with many publications to his credit. These included the "History of the Treatment of the Feeble-Minded" (1895), "Some of the Methods Employed in the Care and Training of Feeble-Minded Children" (1894), "Feeble-Minded Children" (1887), "Care of the Feeble-Minded" (1904), and "Imbeciles with Criminal Instincts" (1909). The Massachusetts Medical Society said that he "did more for the training of the feeble-minded and for bringing about an understanding of their problem than, perhaps, any other American psychiatrist (MMS 1930: 14). A eulogy

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published in the 1924 Annual Report described Dr. Fernald's distinctions and achievements in greater detail.

His achievements as an educator have been far-reaching. He recognized the first step in education of the feeble-minded was to make them happy; that the feeble-minded, like other persons, are happy only when they are doing something for which their capacity fits them. He arranged a 24-hour program in which the child is doing all the time, whatever its capacities demanded. This school became in a real sense a university. During the past year individuals and delegates were sent from 28 states and 13 countries and 4 provinces in Canada. He gave lectures to medical students, to teachers of special classes, public health nurses, physicians taking post-graduate work in pediatrics, psychiatry, etc.

As an organizer he standardized everything he undertook, wether in erecting a building, clearing a field of stones, etc. His scientific standing was widely recognized. In 1912 he received the honorary degree of Master of Arts at Harvard. He was widely sought as a lecturer on mental disease and criminology. Twice President of the Association for the Study of the Feeble-Minded, in 1915 and 1924, he was at the time of his death, President of the Massachusetts Society of Psychiatry and the Boston School of Occupational Therapy. He was a leader in the National Society of Mental Hygiene. He was the originator of the ten-point system for testing and classifying of the feeble-minded. He proved the psychological tests alone were not enough. He secured practically every piece of legislation that had anything to do with these subjects for the last 30 years.

The Fernald School continued to enjoy a strong national and international reputation as continued visits to the campus demonstrated. In the 1920s the school entertained representatives from Russia, Austria, China, Poland, Ceylon, South Africa, England, Czechoslovakia, Central India, Norway, Denmark, France and New Zealand (Wallace 1941: 113).

Fernald was succeeded by Dr. Ransom A. Greene on April 9, 1925. Ransom had previously been Superintendent at Taunton State Hospital (Wallace 1941: 116). Soon afterward, a ten-year construction program to expand capacity to 2000 beds was approved by the Trustees in 1926. At that time the population stood at 1,330, with over 1,000 applications for admission. Nursery dormitories and an administration building were cited as the most pressing needs (Wallace 1941: 122-23). The nine acre Baldwin estate adjoining the campus was acquired at this time to provide room for gardening, and to provide privacy (Wallace 1941: 118). With a waiting list of 1,829 in 1933, discussions about the possibility of constructing a fourth school were initiated (Wallace 1941: 141).

In 1937, Dr. Paul I. Yakovlev was appointed Director of Clinical Research at the Fernald School (Wallace 1941: 155). His work was described thus:

clinic and bio-chemical routines as well as pathological, histological and microscopic studies, X-ray, etc. are being carried on; research is directed to both laboratory and clinical symptomatology and an attempt to get at etiology -- the hereditary and environmental factors and diagnoses and thus provide a scientific basis for therapy.....

The 1945 Governor and Council Report described the laboratory as outstanding. Yakovlev, who was medical as well as research director at the School, was also an instructor at Harvard, Boston University, and Tufts Medical Schools.

In the 1938 annual report of the Fernald School, Superintendent Dr. Ransom Greene, articulated the philosophy of the institution. Although he professed to be a believer in tradition, his words demonstrated the vastness of change since the mid-nineteenth century:

I wish to pay tribute to all the predecessors of the position which I now hold, in that they have always been more concerned about principles than standards and their primary interest has been the possibility of ameliorating the burden to society of those for whom they and we have to care, and in addition determine, if possible, how future generations may be protected or relieved from such a burden.... The problem as a whole is far from simple; it involves primarily medical knowledge and, not secondary, but in addition, problems of education, sociology, psychology and legal affairs....The principles involved have been not only that of ameliorating the burden and immediate stress of the individual but the problem as a whole from the standpoint of welfare of our communities and relieving them of this burden for future generations....This has been the aim from the time of Dr. Howe, Dr. Sequin, Dr. Jarvis and Dr. Fernald. We are making progress along these lines.... We have reached the stage in the last year where we have been able to start on a definite research program....the ends for which we aspire are based on purely the principles exemplified by the founder of such an institution as this, Dr. Samuel Gridley Howe." (Wallace 1941: 156-57).

The contrast between Howe and Greene is great, and reflects the change from a moral/religious ethic underlying care and treatment to a belief on scientific progress.

The 1945 Governor and Council Report described the 240 acre Fernald School as one of the finest institutions in the state, saying:

It is too bad that the Executive Department of the State Government did not make proper allowances for an increase in facilities in this institution during the past decade, so that hundreds of children now being cared for inadequately in their own homes could have been properly taken care of in this institution....No better treatment could be obtained at any price.

The School's patient population of 1,890 was over the capacity of 1,540, even with 75 on parole. There were 236 staff members with 181 vacancies. The varied program of industrial therapy included a beauty shop, men's barber shop, printing, carpentry, shoe-repairing, brush, broom and mat making, weaving, dressmaking, painting, domestic science, stocking manufacturing, rugmaking, knitting, crocheting, embroidering, lace making, basket weaving, clothing manufacturing, and canning. Agricultural facilities included a cow barn with 50 head of steer, and a horse barn, but most such activities were carried out at the Templeton Colony. Building needs cited by the report included a hospital, installation of vacuum heating, two officers' cottages, additions to the Manual Training Building, a root cellar, a cow barn, a horse barn, a dormitory for young boys, two dormitories for young girls, and an infirmary for girls.

The depression temporarily halted growth of the school as is indicated by the 1945 report, but development resumed after World War II. The patient population rose to 2,600 in the 1960s, while the staff remained at 800. In 1972, Fernald came under court order to improve services. This resulted in reduction of the patient population to 1,161 in 1979, and to 855 (including Templeton) in 1987; additions to the staff which reached 1,900 in 1979, and 2,400 in 1987; major new construction; and upgrading of existing buildings. As of 1989, Fernald operated five community residences in addition to the 848 clients living at Waltham and Templeton, and employed 2,500 staff (Internal History Fact Sheet).

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Draft National Register nomination: State Hospital and School System**

Fernald School Data Sheet

1/93

Map #	Building Name	Date	Style	Architect/Designer	Status
1	Waverley Hall	1891	Queen Anne	W. G. Preston	C
2	North Building	1897	Queen Anne	W. G. Preston	C
3	Activity Center	1891	Queen Anne	W. G. Preston	C
4/5	Schoolhouse/Gym	1891	Queen Anne	W. G. Preston	C
6	Chipman	1892	Queen Anne	W. G. Preston	C
7	North Nurses' Home	1904	Queen Anne	W. G. Preston	C
8	Waverley Hall Lawn	c1891	n/a		C
9	East Nurses' Home	1906	Queen Anne	W. G. Preston	C
10	Manual Training	1904	Queen Anne	W. G. Preston	C
11	Warren Hall	1906	Queen Anne	W. G. Preston	C
12	South Nurses' Home	1907	Queen Anne	W. G. Preston	C
13	Thom Building	1952	Colonial Revival		C
14	Power Plant	1921	Utilitarian		C
15	Main Garage	1932	Utilitarian		C
16	Storehouse	1891	Queen Anne	W. G. Preston ?	C
17	Cottage #17	1925	Craftsman	Curtis Bixby?	C
55	garage	c1950	n/a		NC
18	Cottage #18	1925	Craftsman	Curtis Bixby?	C
19	Cottage #19	1925	Craftsman	Curtis Bixby?	C
57	garage	1955	Utilitarian		NC
20	Cottage #20	1925	Craftsman	Curtis Bixby?	C
56	garage	1930	n/a		NC
21	Southard Research Lab	1921	Craftsman	Kendall, Taylor & Co.?	C
22	Laundry	1928	Utilitarian		C

					James Calderwood	
23	Lavers Hall	1914	Craftsman			C
24	Maintenance	1930	Utilitarian			NC
25	Greenhouse	c1940	n/a			NC
26	Electric Sub station	c1960	Utilitarian			NC
27	Engineers' Storage	c1930	Utilitarian			NC
28	Barn foundation	c1900	n/a			C
29	Shed (stucco)	c1920	Craftsman (poor)			C
30	Shed (metal)	c1970	Utilitarian			NC
31	Garage (concrete block)	c1950	Utilitarian			NC
32	Tarbell Hall	1934	Tudor Revival			C
33	West Building	1890	Queen Anne		W. G. Preston	C
34	Belmont House	1890	Queen Anne		W. G. Preston	C
35	Seguin Hall	1934	Colonial Revival		Clarence P. Hoyt	C
36	MacDougall Hall	1898	Queen Anne		W. G. Preston	C
37	Dolan Hall	1906	Queen Anne		W. G. Preston	C
38	West Nurses' Home	1906	Queen Anne		W. G. Preston	C
39	Wheatly Hall	1933	Colonial Revival			C
40	Food Service Building	1931	Colonial Revival		Clarence P. Hoyt	C
41	Howe Hall	1933	Colonial Revival			C
42	East Dowling Hall	1906	Queen Anne		W. G. Preston	C
43	Hillside Cottage	1904	Queen Anne/Colonial Rev.		W. G. Preston	C
44	garage	1912	n/a (rusticated conc. block)			C
45	Baldwin Cottage	c1900	Vernacular			C
46	Wallace Hall	1936	Colonial Revival			C
47	Administration	1933	Colonial Revival		Clarence P. Hoyt	C
48	Farrell Hall	1960	Modern			NC

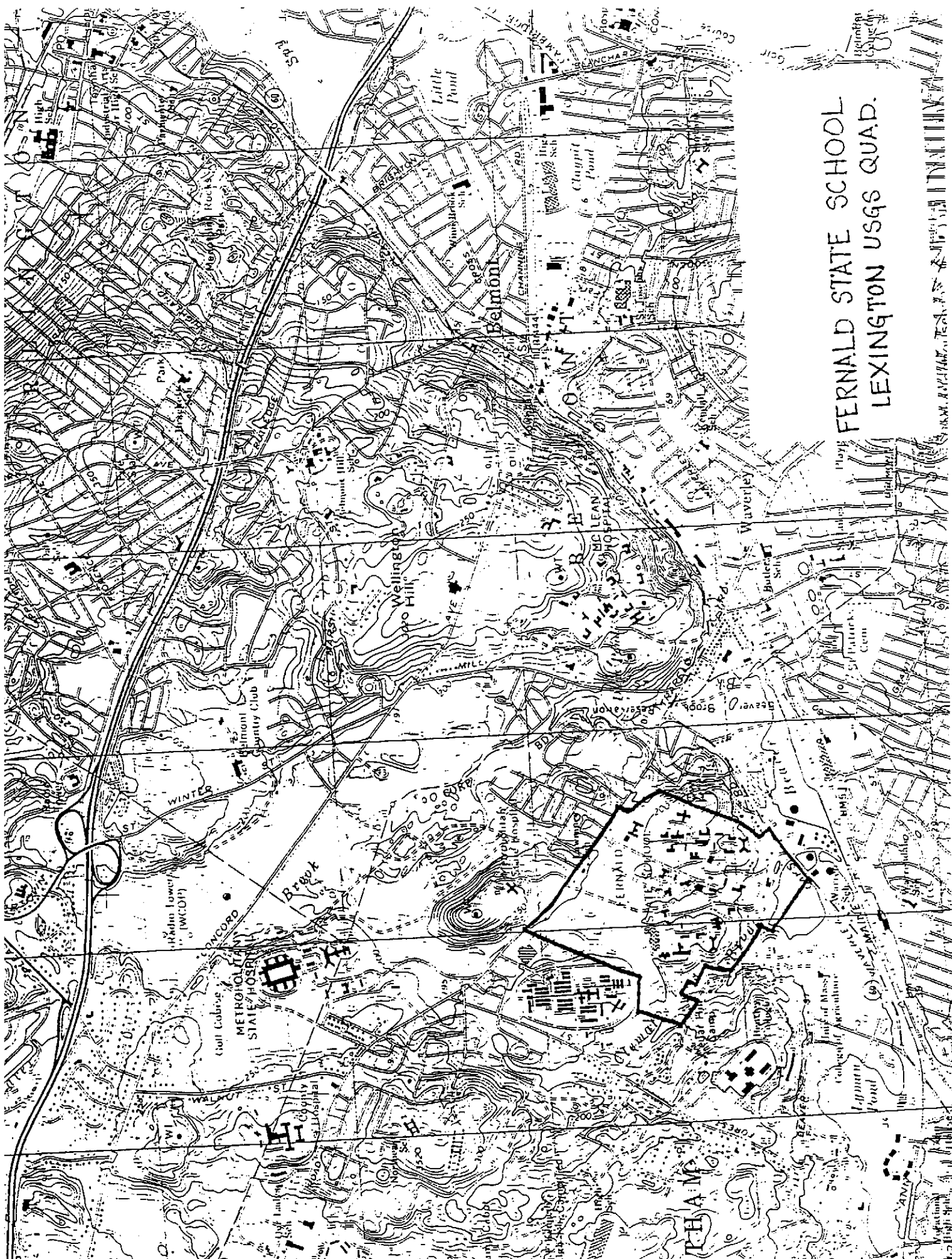
49	Hospital/S. Bowen	1893-1907	Queen Anne	W. G. Preston	C
50	Greene Unit	1953-54	Modern	C. T. Main, Inc?	NC
51	Trapelo Cottage	c1860	Greek Revival/Italianate		C
52	garage	1930	n/a		NC
53	Cardinal Cottage	c1850	Greek Revival		C
54	garage	1947	n/a		NC
58	Electric Sub Station	c1960	Utilitarian		NC
59	Cast iron fence	c1890s	n/a		C
60	Kelley Hall	1969	Modern		NC
61	Activities Center	1980	Modern	CBI	NC
62	Withington Center	1979	Modern	Payette Ass.	NC
63	Eunice Shriver Center	1967	Modern	Caolo & Bienick Ass.	NC
64	Cottage #5	1976	Modern		NC
65	Cottage #6	1976	Modern		NC
66	Cottage #7	1976	Modern		NC
67	Cottage #8	1976	Modern		NC
68	Cottage #9	1976	Modern		NC
69	Cottage #10	1976	Modern		NC
70	Cottage 11	1976	Modern		NC
71	Cottage #12	1976	Modern		NC
72	Cottage #13	1976	Modern		NC
73	Cottage #3	1976	Modern		NC
74	Cottage #4	1976	Modern		NC
75	Brookside	1981	Modern		NC
76	Woodside	1981	Modern		NC
77	Site 5	1980s	Modern		NC

78	Open Pavilion	c1970s	n/a	NC
79	Shed	c1970s	Utilitarian	NC
80	Shed (concrete)	c1970s	Utilitarian	NC
81	Garage (concrete)	c1930s	Utilitarian	NC
82	Shed (concrete)	c1970s	Utilitarian	NC
83	Malone Park 1	c1990	Modern	NC
84	Malone Park 2	c1990	Modern	NC
85	Malone Park 3	c1990	Modern	NC
86	Malone Park 4	c1990	Modern	NC
87	Pool/Playground	c1960	n/a	NC
88	Chapel	1960	Colonial Revival	NC
89	Electric Sub Station	c1960	Utilitarian	NC
90	Shed (wood)	c1920	Utilitarian (poor)	C
91	Activity Center Lawn	c1891	n/a	C

John A. McPherson

Mass. Hospitals + Schools
Walter E. Fernald State School
Waltham, MA





FERNALD STATE SCHOOL
LEXINGTON USGS QUAD.

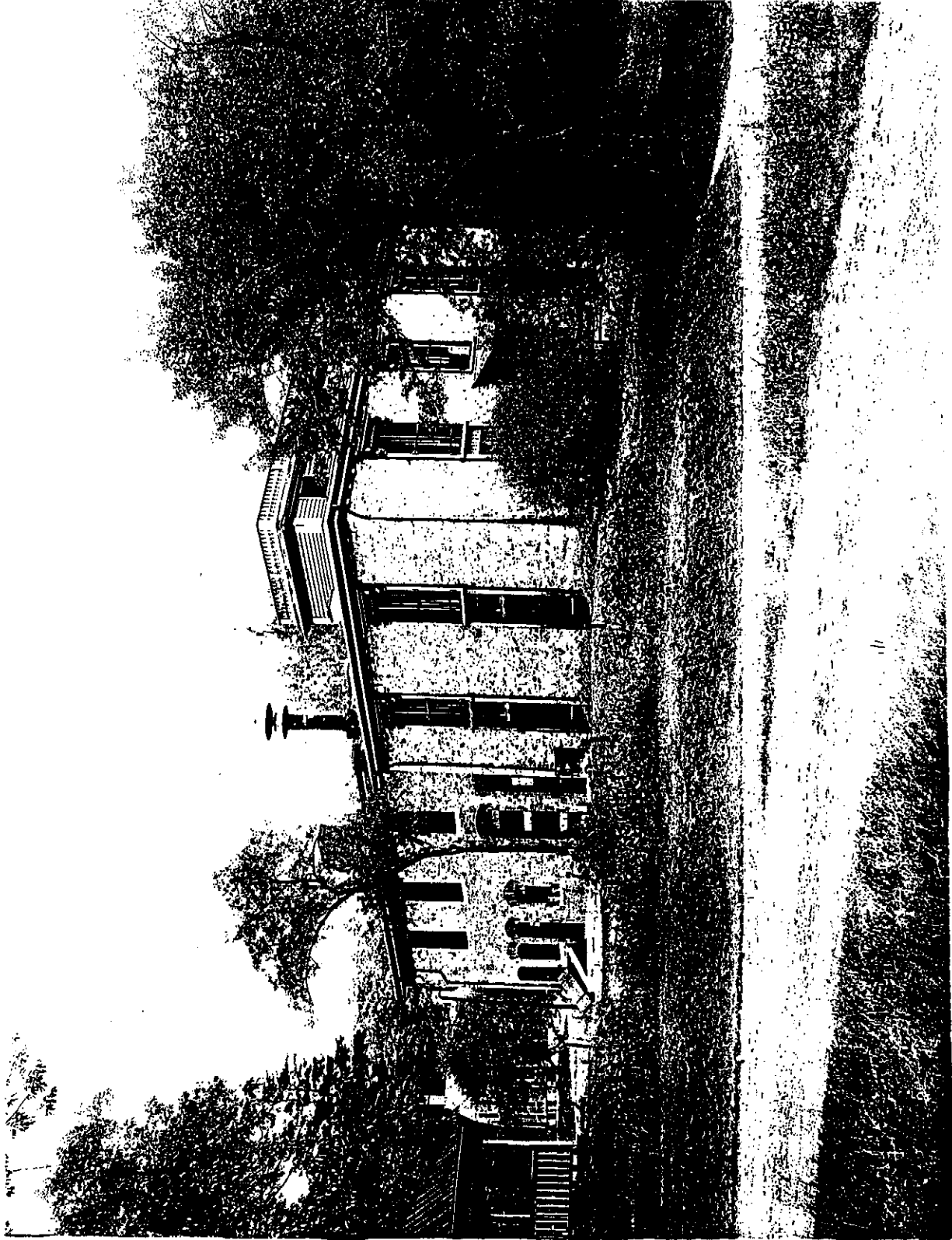
Belmont College
Belmont College

Belmont College

Belmont College

Belmont College

WALTHAM, MASS.
Old Stone Farmhouse
c1910; Courtesy SPNEA
figure #6



Farm house. Fenwick, SPNEA

WALTHAM, MASS. COURTESY SPNEA

WALTHAM, MASS.
Activity Center
c1910; Courtesy SPNEA
Figure #7



SPNEA

WALLEN E. FERNALL STATE SCHOOL
WALTHAM, MASS.
Schoolhouse
c1910; Courtesy SPNEA
Figure #8

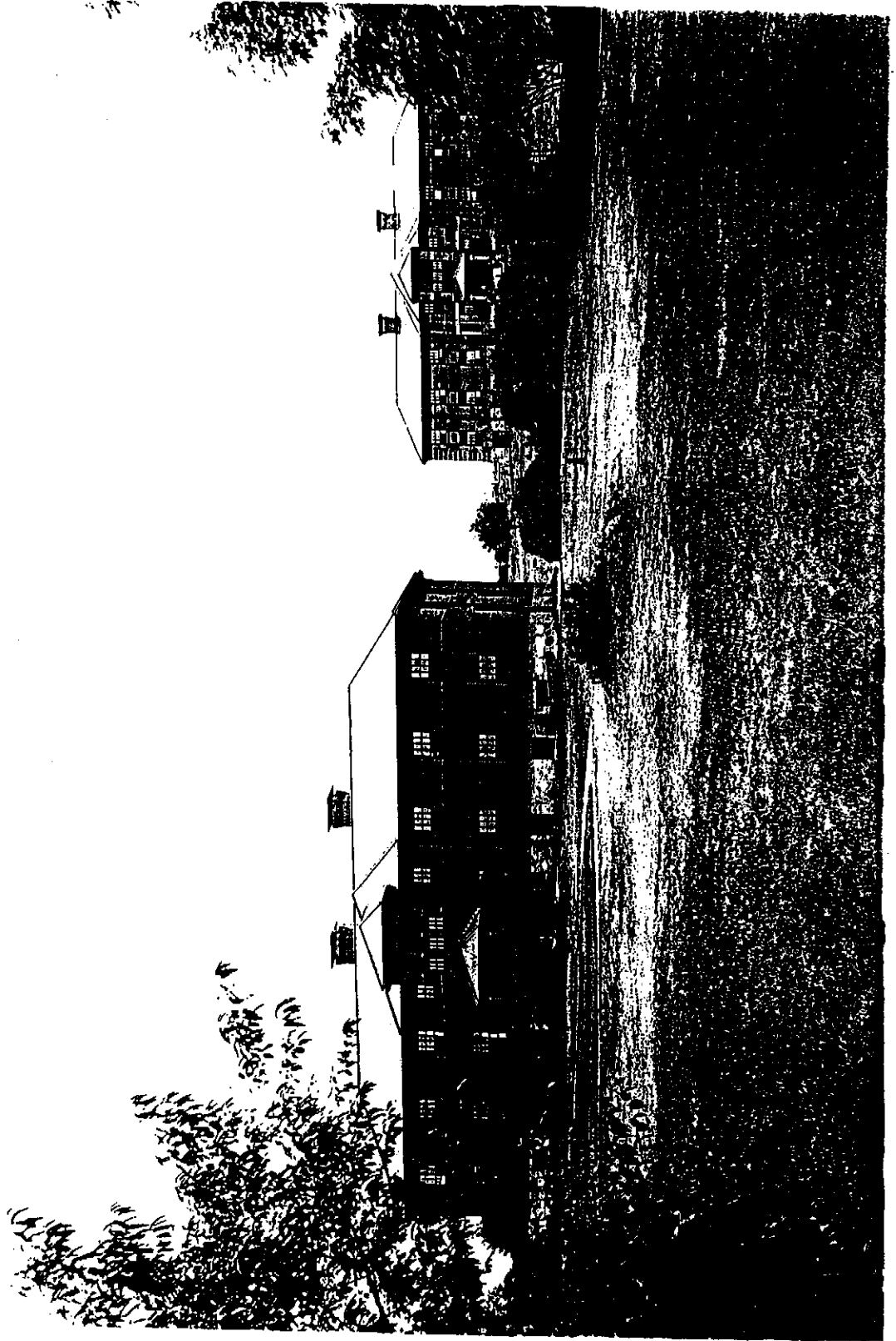


WALIHAWI, WADD.

MacDougall & Dolan Halls

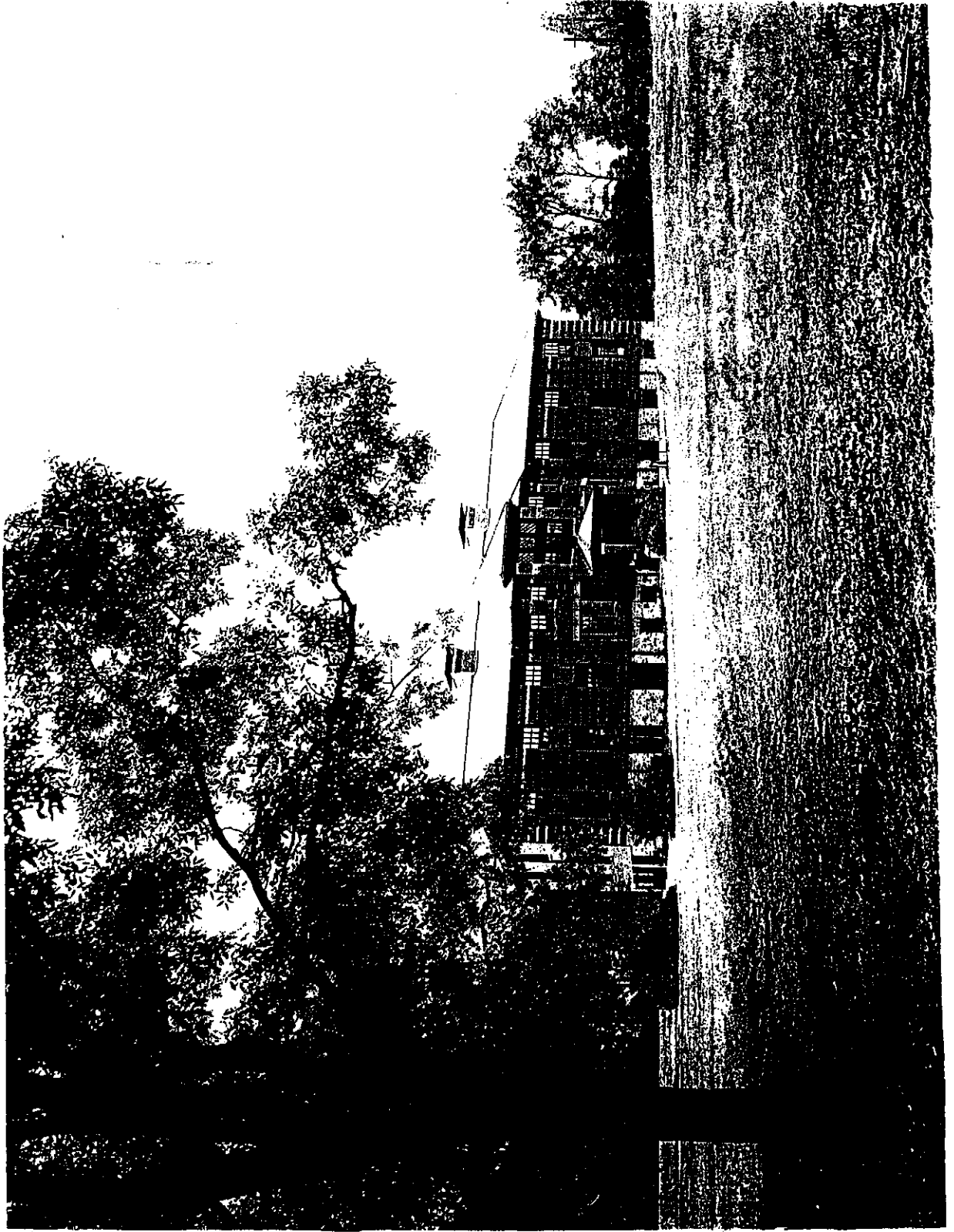
c1910; Courtesy SPNEA

Figure #9



WALTER E. FERNALD STATE SCHOOL
WALTHAM, MASS.

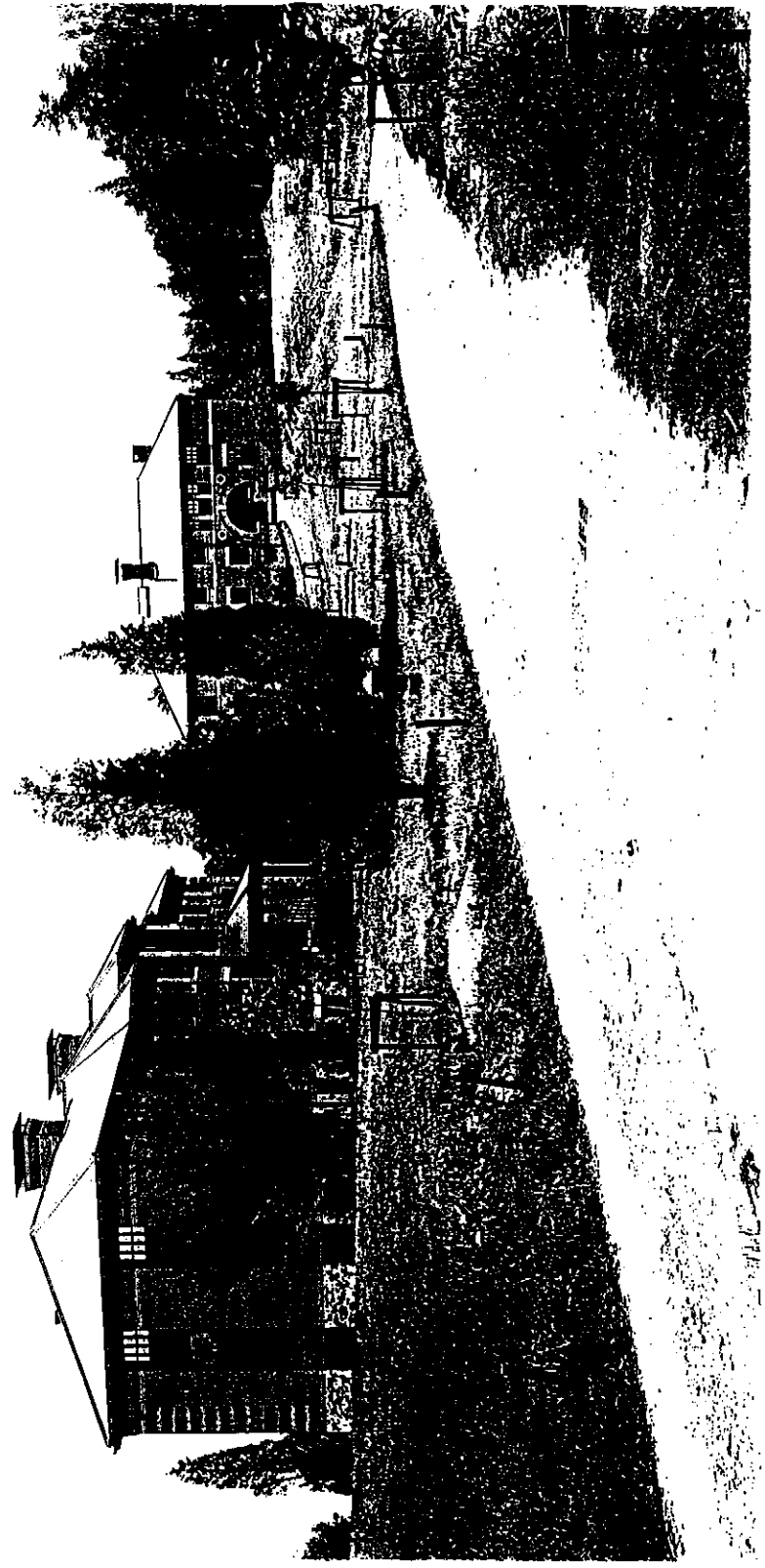
Dolan Hall
c1910; Courtesy SPNEA
Figure #10



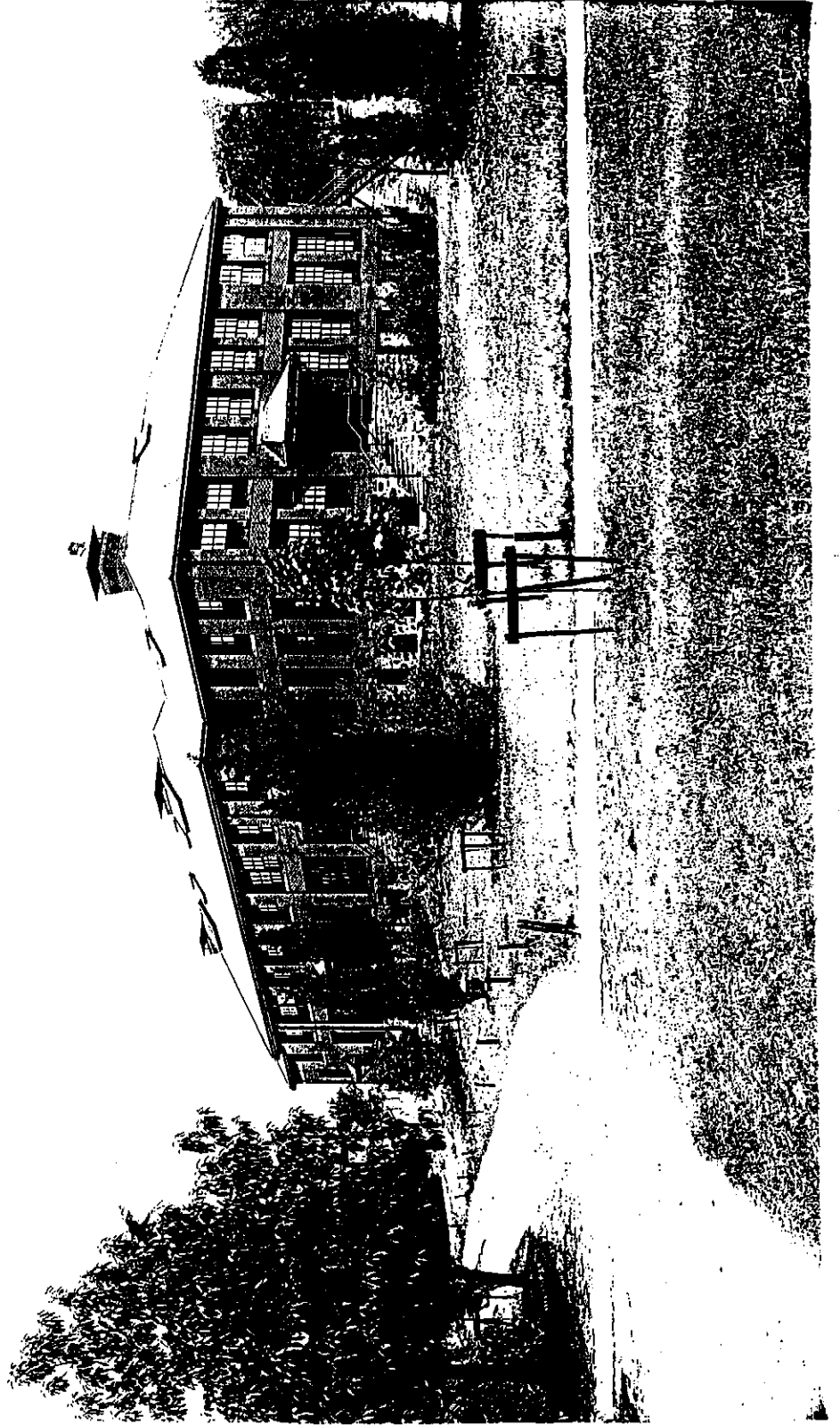
WALLEN E. FERNALD STATE SCHOOL
WALTHAM, MASS.
West Nurses' Home
c1910; Courtesy SPNEA
Figure #11



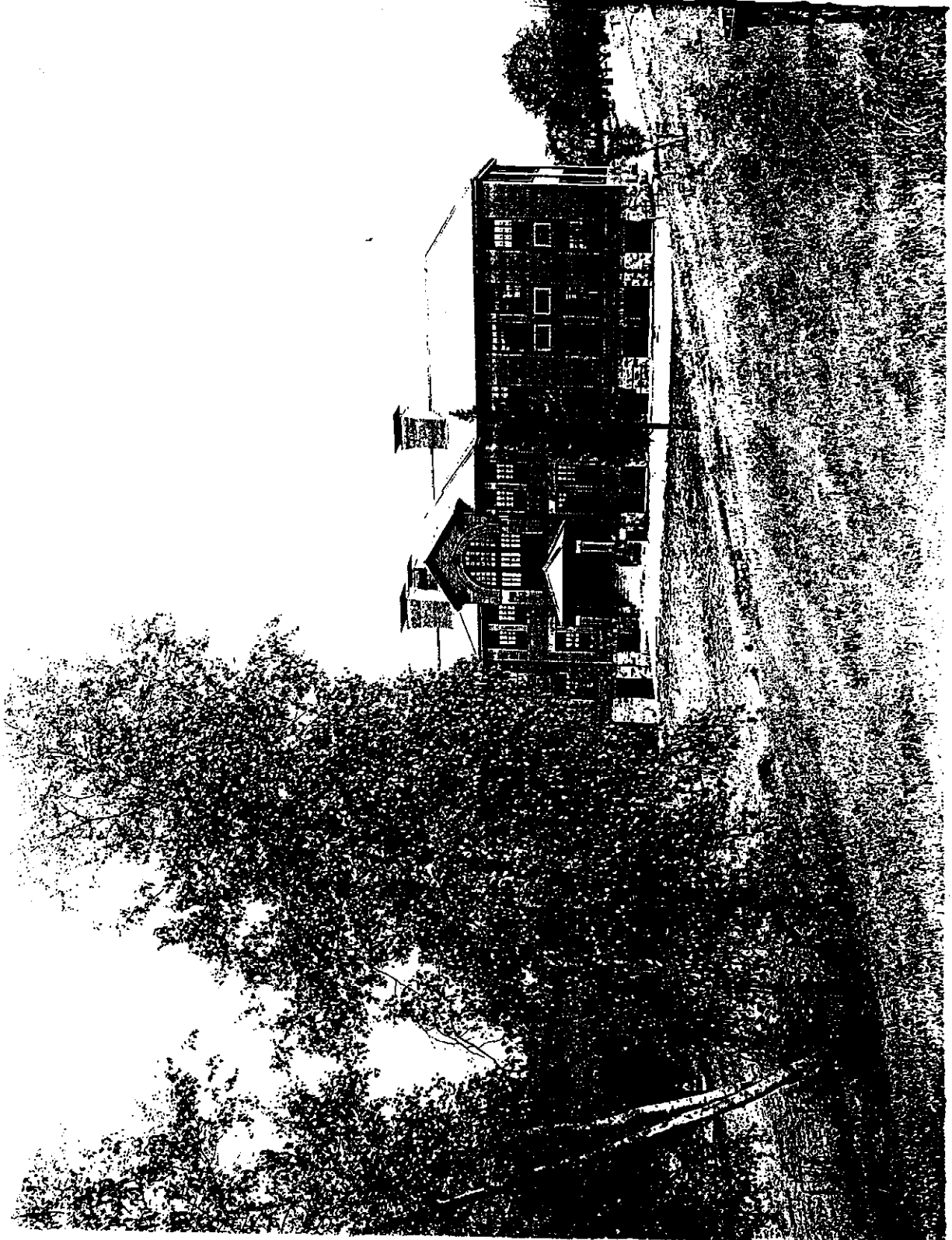
WALTER E. FERNALD STATE SCHOOL
WALTHAM, MASS.
Warren Hall; South Nurses' Home
c1910; Courtesy SPNEA
Figure #12

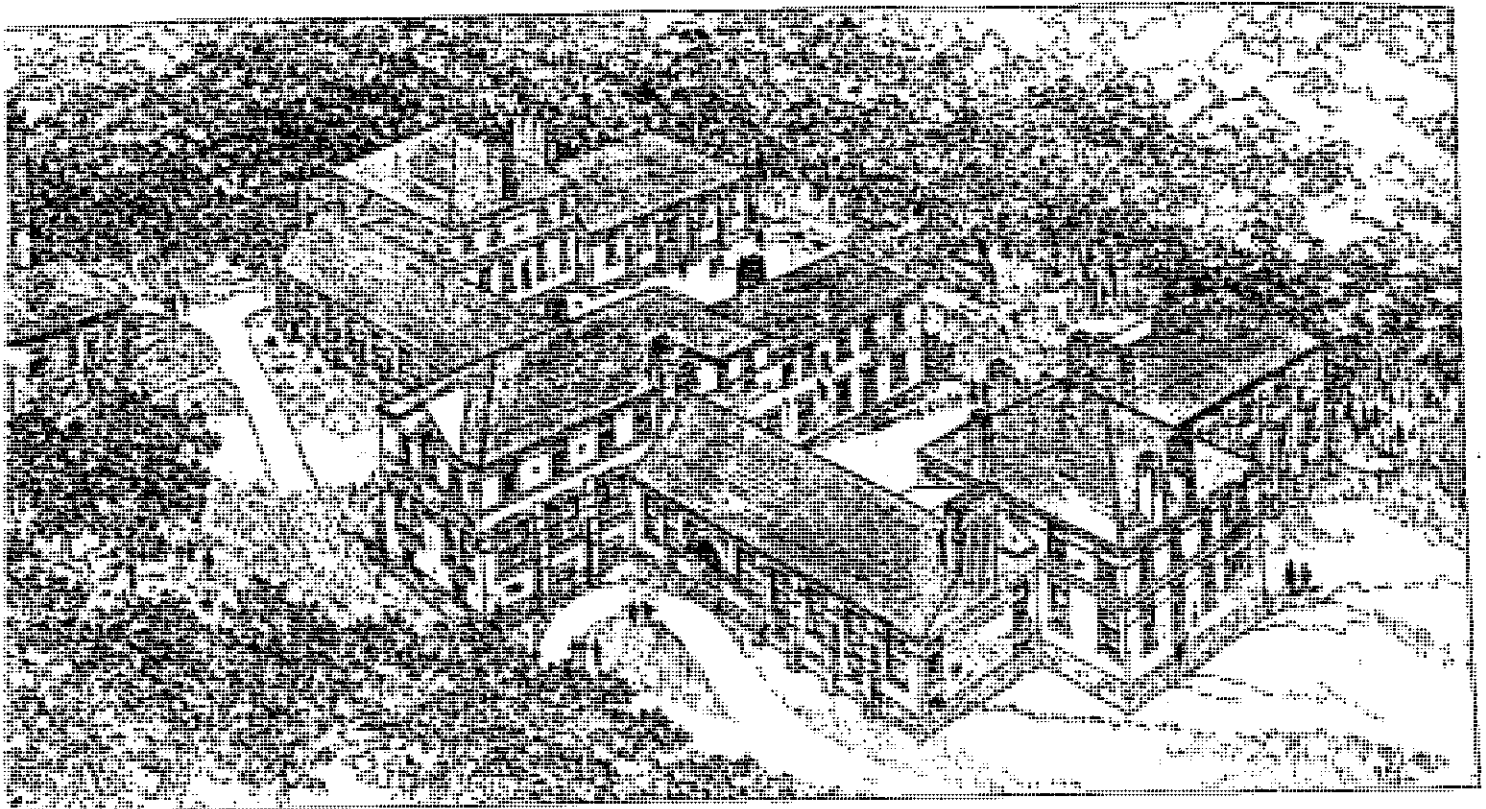


WALTER E. FERRALL STATE SCHOOL
WALTHAM, MASS.
Manual Training Building
c.1910; Courtesy SPNEA
Figure #13

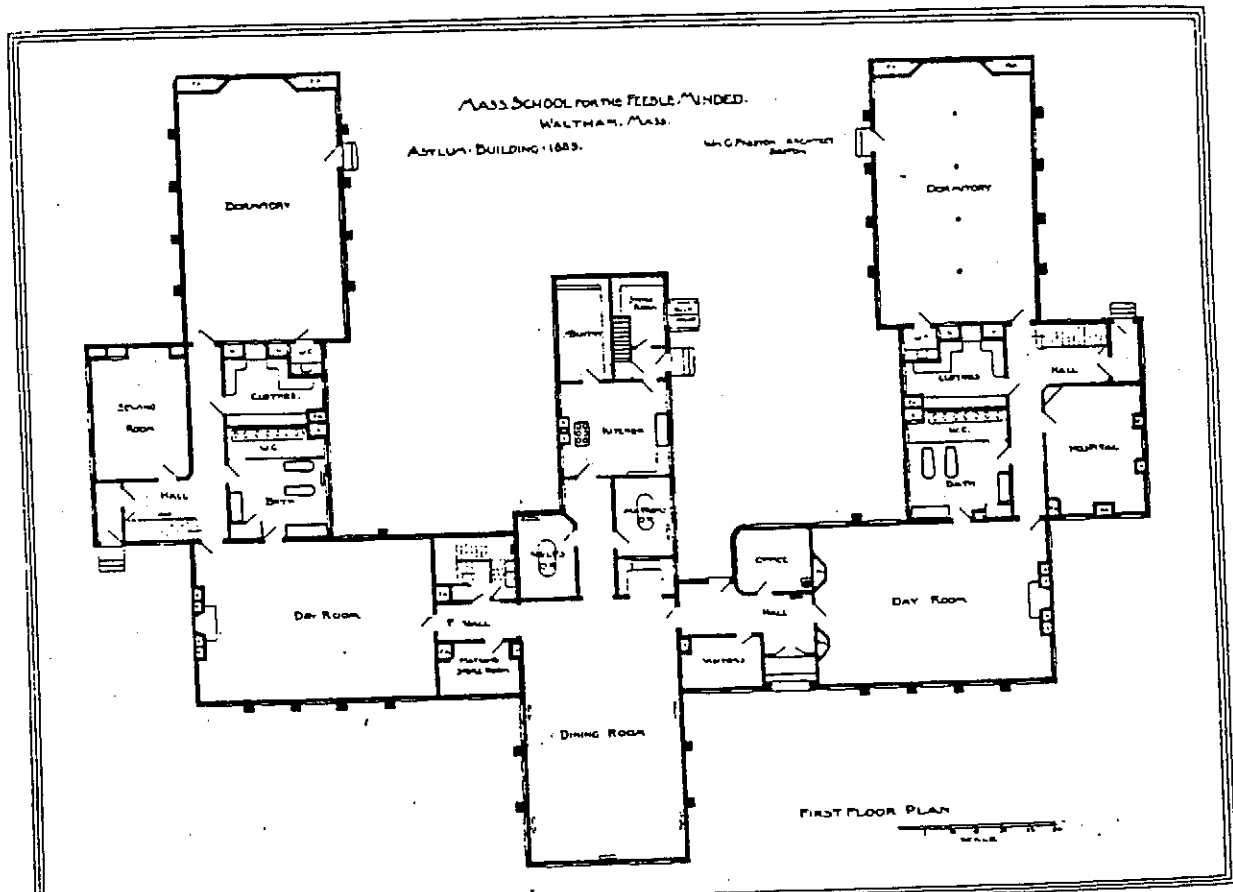


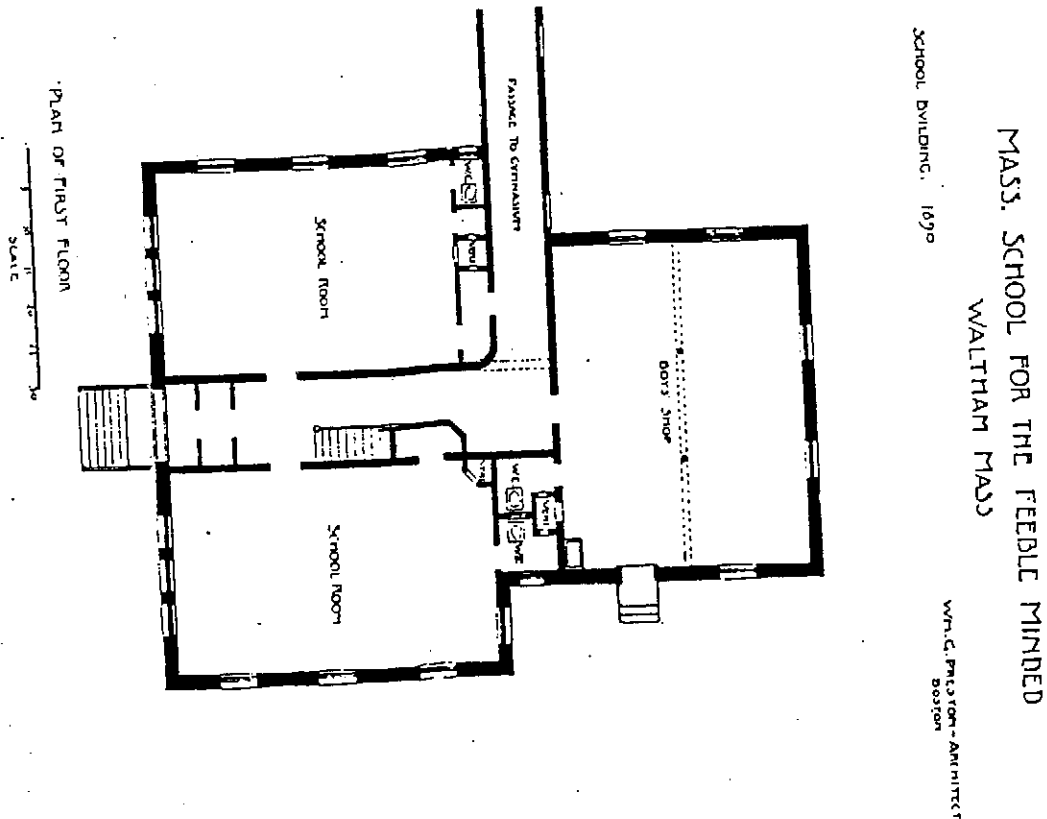
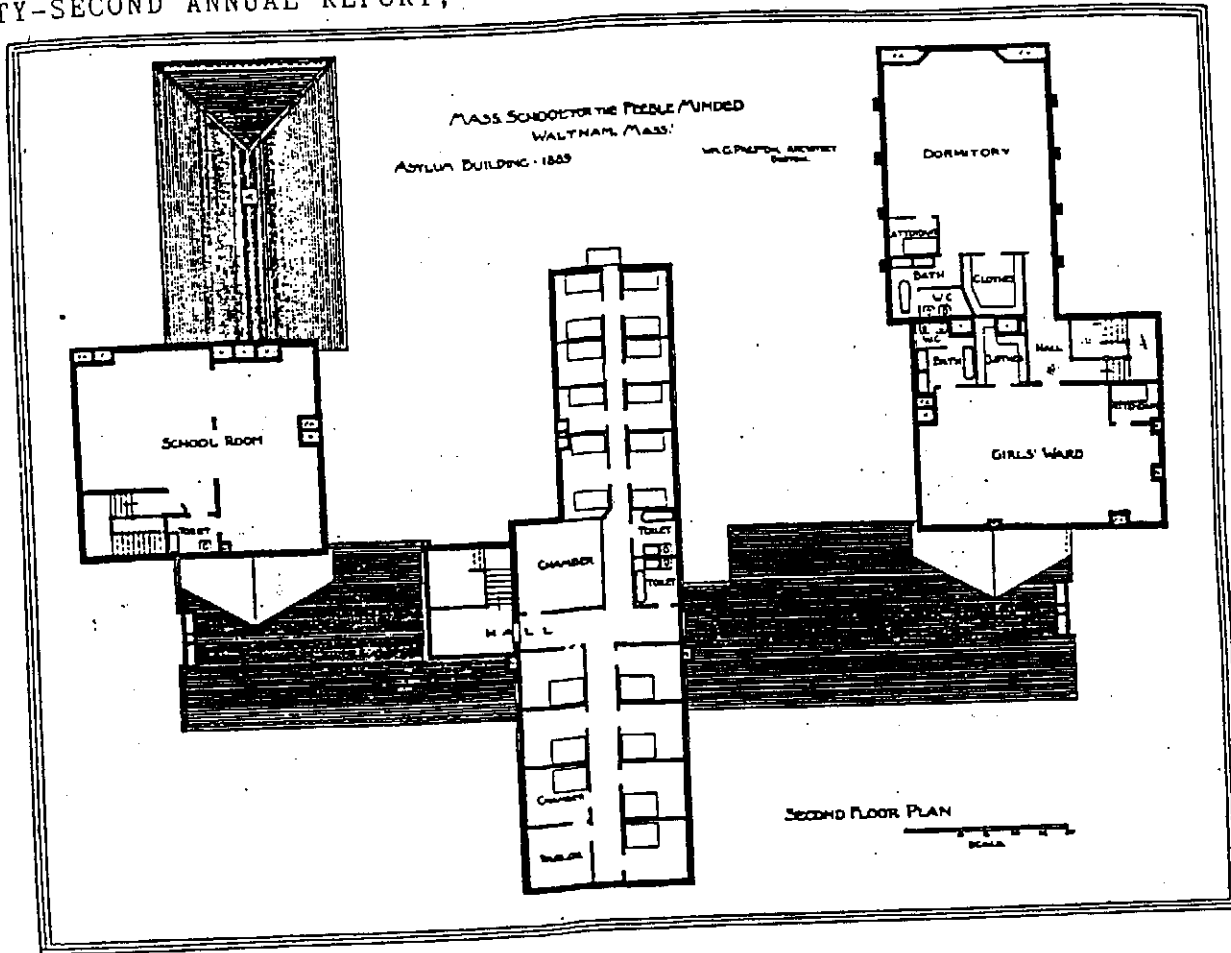
WALTER E. FERNALD STATE SCHOOL
WALTHAM, MASS.
East Hall
c1910; Courtesy SPNEA
Figure #14



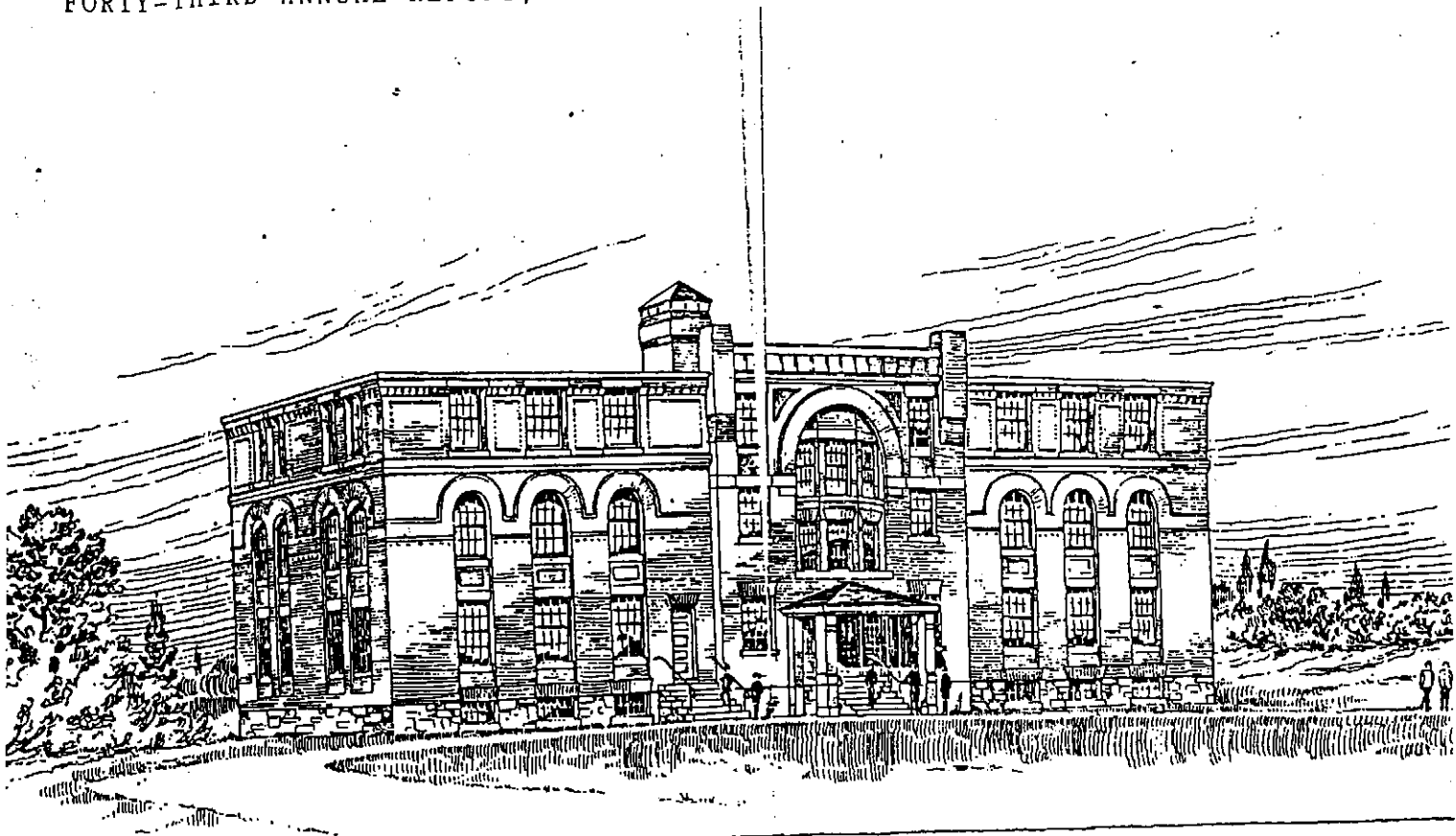


ASYLUM BUILDING.... MASS. SCHOOL FOR THE FEEBLE-MINDED.
WALTHAM, MASS.



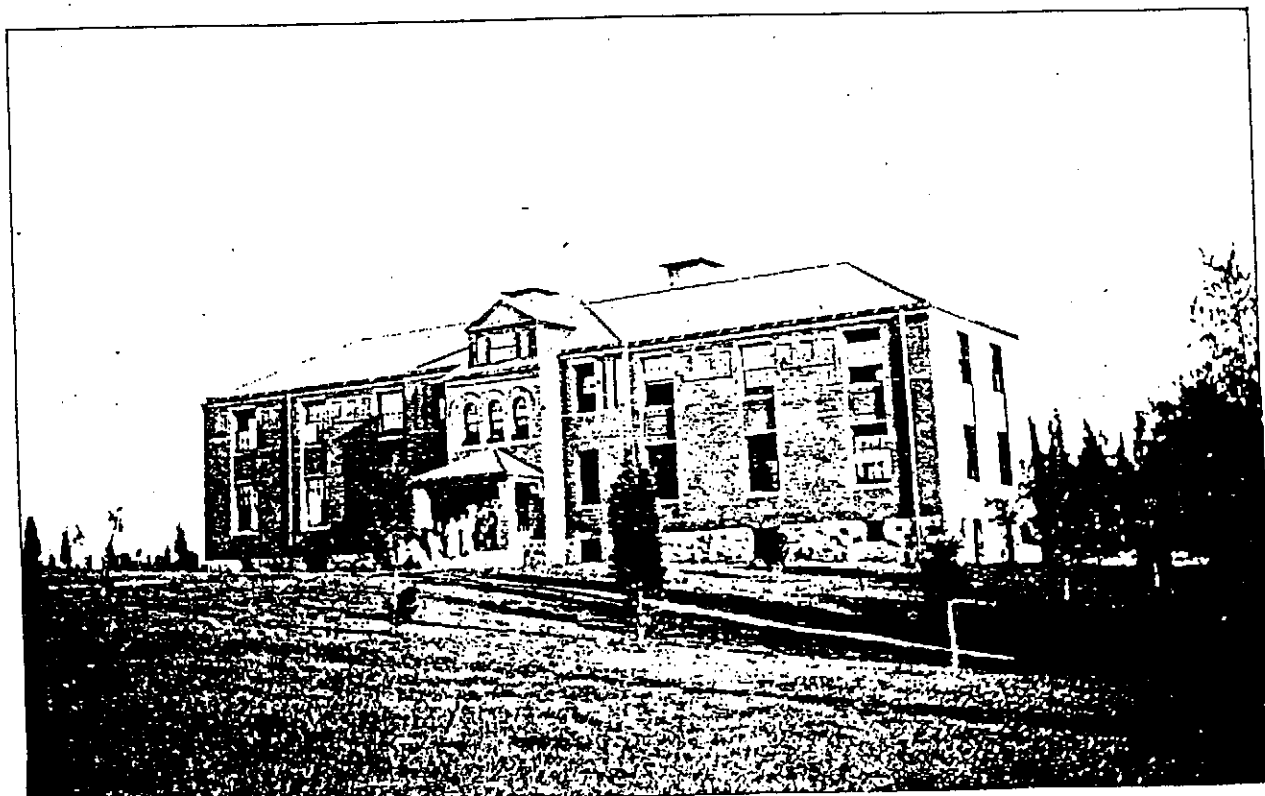


MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED; FIGURE #4
FORTY-THIRD ANNUAL REPORT; 1890 (see figure #5 for plans)



-DORMITORY- -MASS. SCHOOL FOR THE FEEBLE-MINDED- -WALTHAM- MASS-
W. G. REXTON ARCHT.

FORTY-SEVENTH ANNUAL REPORT; 1894



MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED; FIGURE #5
 FORTY-THIRD ANNUAL REPORT; 1890 (see figure #4 for elevation)

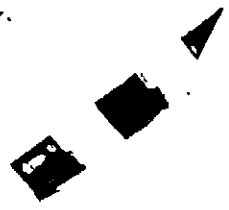
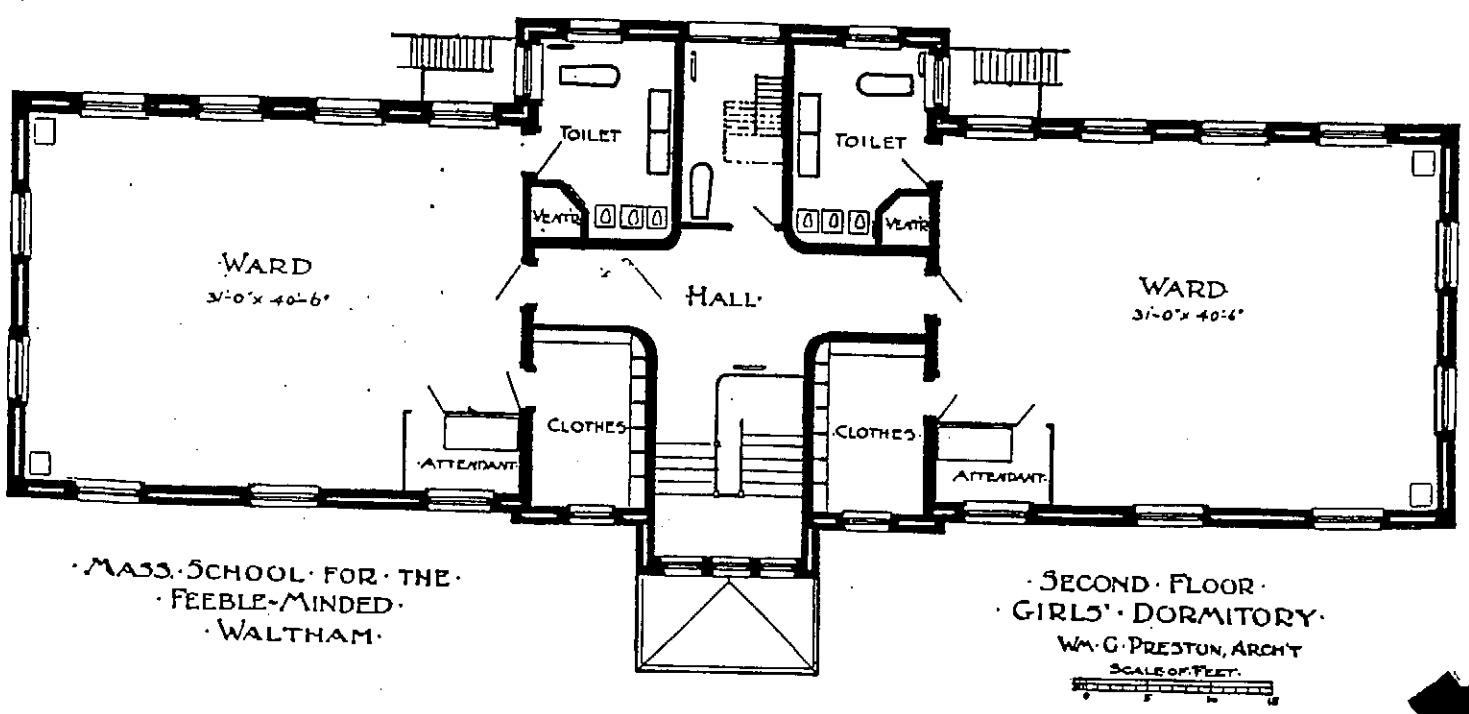
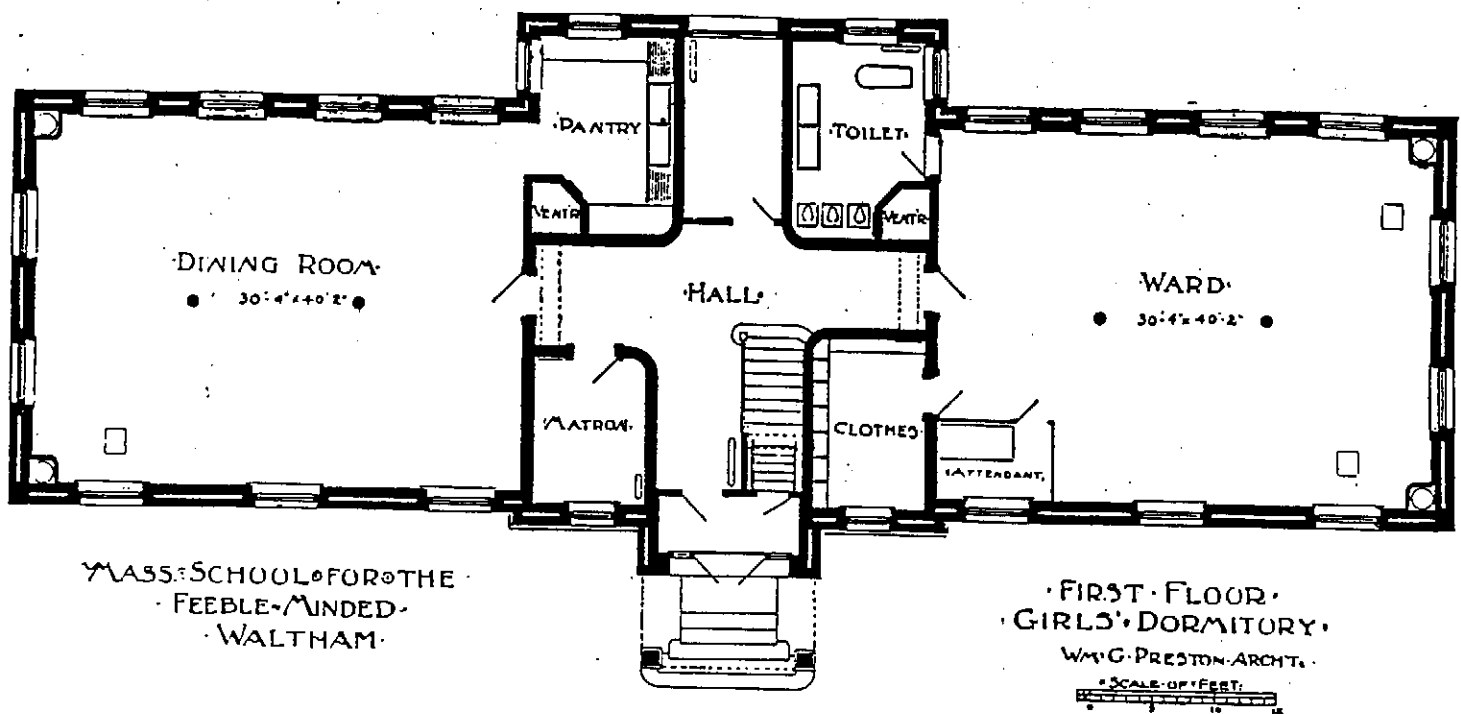


EXHIBIT B-7

Wikipedia Historical Information

Walter E. Fernald State School

From Wikipedia, the free encyclopedia

The **Walter E. Fernald State School**, now the Walter E. Fernald Developmental Center, located in Waltham, Massachusetts, is the Western hemisphere's oldest publicly funded institution serving people who have developmental disabilities. ^[2] Originally a Victorian sanatorium, it became a "poster child" for the American eugenics movement during the 1920s. It later was the scene of medical experiments in the twentieth century. Investigations into this research led to new regulations regarding human research in children.

Contents

- 1 History
- 2 Nuclear Medicine Research in Children
- 3 Twenty-first Century
- 4 References
- 5 External links

History

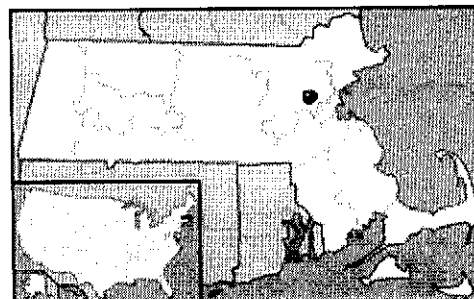
The Fernald Center, originally called the Massachusetts School for Idiotic Children, was founded by reformer Samuel Gridley Howe in 1848 with a \$2,500 appropriation from the Massachusetts State Legislature. The school eventually comprised 72 buildings total, located on 186 acres (0.75 km²). At its peak, some 2,500 people were confined there, most of them "feeble-minded" boys.

Under its first resident superintendent, Walter E. Fernald (1859–1924), an advocate of eugenics, the school was viewed as a model educational facility in the field of mental retardation. It was renamed in his honor in 1925, following his death the previous year.

The institution did serve a large population of mentally retarded children, but the *The Boston Globe* estimates that upwards of half of the inmates tested with IQs in the normal range. In the 20th century, living conditions were spartan or worse; approximately 36 children slept in each dormitory room. There were widespread reports of physical and sexual abuse, This situation changed radically, starting in the 1970s, when a class action suit, Ricci v. Okin, was filed to upgrade conditions at Fernald and several other state institutions for persons with mental retardation in Massachusetts. U.S. District Court Judge Joseph L. Tauro, who assumed oversight of the case in 1972, formally disengaged from the case in 1993, declaring that improvements in the care and conditions at the facilities had made them "second to none anywhere in the world."

Fernald, Walter E., State School

U.S. National Register of Historic Places
U.S. Historic District



Location:	200 Trapelo Rd., Waltham, Massachusetts
Coordinates:	42°23′28″N 71°12′38″W
Built/Founded:	1888
Architect:	Preston, William G.; Hoyt, Clarence P.
Architectural style (s):	Greek Revival, Queen Anne, Late 19th And 20th Century Revivals
Governing body:	State
MPS:	Massachusetts State Hospitals And State Schools MPS
Added to NRHP:	January 21, 1994
NRHP Reference#:	93001487

[1]

Nuclear Medicine Research in Children

The Fernald School was the site of the 1946–53 joint experiments by Harvard University and MIT that exposed young male children to tracer doses of radioactive isotopes.^[3] Documents obtained in 1994 by the United States Department of Energy^[4] revealed the following details:

- The experiment was conducted in part by a research fellow sponsored by the Quaker Oats Company.
- MIT Professor of Nutrition Robert S. Harris led the experiment, which studied the absorption of calcium and iron.
- The boys were encouraged to join a "Science Club", which offered larger portions of food, parties, and trips to Boston Red Sox baseball games.
- The 57 club members ate iron-enriched cereals and calcium-enriched milk for breakfast. In order to track absorption, several radioactive calcium tracers were given orally or intravenously.
- Radiation levels in stool and blood samples would serve as dependent variables.
- in another study, 17 subjects received iron supplement shots containing radioisotopes or iron.^[5]
- Neither the children nor their parents ever gave adequate informed consent for participation in a scientific study.

[6]

The Advisory Committee on Human Radiation Experiments, reporting to the United States Department of Energy in 1994, reported on these experiments:

In 1946, one study exposed seventeen subjects to radioactive iron. The second study, which involved a series of seventeen related subexperiments, exposed fifty-seven subjects to radioactive calcium between 1950 and 1953. It is clear that the doses involved were low and that it is extremely unlikely that any of the children who were used as subjects were harmed as a consequence. These studies remain morally troubling, however, for several reasons. First, although parents or guardians were asked for their permission to have their children involved in the research, the available evidence suggests that the information provided was, at best, incomplete. Second, there is the question of the fairness of selecting institutionalized children at all, children whose life circumstances were by any standard already heavily burdened.

The highest dose of radiation that any subject was exposed to was 330 millirem, the equivalent of less than one year's background radiation in Denver.^[7]

The school also participated in studies of thyroid function in patients with Down Syndrome and their parents.^[8] This study showed that their iodine metabolism was similar to normal controls.

Twenty-first Century

The buildings and grounds survive as a center for mentally disabled adults, operated by the Massachusetts Department of Mental Retardation. In 2001, 320 adults resided at Fernald, with ages ranging from 27 to 96 years and an average age of 47 years. According to a December 13, 2004 article in the *Boston Globe*, Massachusetts Governor Mitt Romney announced in 2003 that the facility would be closed and the land sold by 2007. In 2003, a coalition of family advocates and state employee unions began a campaign to save Fernald and asked U.S. District Judge Joseph L. Tauro to resume his oversight of the Ricci v. Okin class action lawsuit that had led to improvements at Fernald and the other state facilities beginning in the 1970s.

In an August 14, 2007 ruling, Judge Tauro ordered the Department of Mental Retardation to consider the individual wishes of all 185 institution residents before closing the facility. However, in September 2007, the new administration of Governor Deval Patrick appealed Tauro's ruling to the First Circuit U.S. Court of Appeals in Boston. In a statement, the Patrick administration contended that Fernald had become too expensive to continue to operate and that equal or better care could be provided in private, community-based settings for the remaining Fernald residents. The administration's cost claims have been disputed by the Fernald League for the Retarded, Inc., the Massachusetts

Coalition of Families and Advocates for the Retarded, Inc. (COFAR) and other family-based organizations, which have continued to advocate for the preservation of Fernald as a site for ICF/MR-level care for its current residents. Those advocacy organizations have proposed a "postage-stamp" plan under which Fernald would be scaled back in size and the remaining portion of the campus sold for development. The Patrick administration, however, has declined to negotiate with those Fernald advocates, and has pressed ahead with its appeal and closure plans.

Fernald was the subject of a 2007 documentary film "Front Wards, Back Wards" directed by W.C. Rogers, which has been shown on some PBS television stations.

References

- ↑ "National Register Information System". *National Register of Historic Places*. National Park Service. 2009-03-13. http://www.nr.nps.gov/.
 - ↑ "The Walter E. Fernald Association". http://fernaldassociation.com/fernaldCenter.htm. Retrieved on 2009-06-09.
 - ↑ BRONNER F, HARRIS RS, MALETSKOS CJ, BENDA CE (January 1956). "Studies in calcium metabolism; the fate of intravenously injected radiocalcium in human beings". *The Journal of Clinical Investigation* **35** (1): 78–88. doi:10.1172/JCI103254. PMID 13278403.
 - ↑ "OT-19. Radioisotope Studies at the Fernald State School, Massachusetts". http://www.hss.energy.gov/healthsafety/ohre/roadmap/experiments/0491doc.html#0491_Other. Retrieved on 2009-06-07.
 - ↑ SHARPE LM, PEACOCK WC, COOKE R, HARRIS RS (July 1950). "The effect of phytate and other food factors on iron absorption". *The Journal of Nutrition* **41** (3): 433–46. http://jn.nutrition.org/cgi/pmidlookup?view=long&pmid=15428911.
 - ↑ "Chapter 7: The Studies at Fernald School". *ACHRE Report*. "It is clear that the doses involved were low and that it is extremely unlikely that any of the children who were used as subjects were harmed as a consequence."
 - ↑ Hussain, Zareena (January 7, 1998). "MIT to pay \$1.85 million in Fernald radiation settlement". *The Tech* **11** (65). http://tech.mit.edu/V117/N65/bferald.65n.html. Retrieved on 2009-06-09.
 - ↑ KURLAND GS, FISHMAN J, HAMOLSKY MW, FREEDBERG AS (April 1957). "Radioisotope study of thyroid function in 21 mongoloid subjects, including observations in 7 parents". *The Journal of Clinical Endocrinology and Metabolism* **17** (4): 552–60. PMID 13406017. http://jcem.endojournals.org/cgi/pmidlookup?view=long&pmid=13406017.
- D'Antonio, Michael. *The State Boys Rebellion*. New York: Simon & Schuster, 2004.

External links

- Excerpts from the writings of Walter E. Fernald (http://www.brandeis.edu/lemborg/SGHL/PDF/Bibliographies/Walter%20Elmore%20Fernald.pdf)

Retrieved from "http://en.wikipedia.org/wiki/Walter_E._Fernald_State_School"

Categories: Historic districts in the United States | Human experimentation in the United States | Hospitals in Massachusetts | National Register of Historic Places in Massachusetts | Special schools in the United States | Waltham, Massachusetts | Queen Anne architecture | 1888 architecture | Medical ethics

Hidden categories: All articles with unsourced statements | Articles with unsourced statements from March 2009

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Fernald Development Center

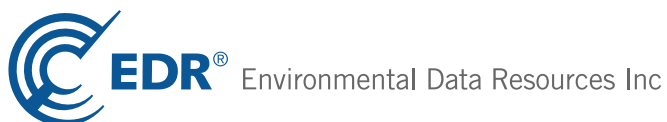
200 Trapelo Road
Waltham, MA 02452

Inquiry Number: 2508314.2s

June 09, 2009

The EDR Radius Map™ Report with GeoCheck®

Prepared using the EDR FieldCheck® System



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Toll Free: 800.352.0050
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EXECUTIVE SUMMARY

A search of the environmental records was conducted by Environmental Data Resources, Inc. (EDR). TECHLAW, INC. used the EDR FieldCheck System to review and/or revise the results of this search, based on independent data verification by TECHLAW, INC.. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

200 TRAPELO ROAD
WALTHAM, MA 02452

COORDINATES

Latitude (North): 42.391500 - 42° 23' 29.4"
Longitude (West): 71.206800 - 71° 12' 24.5"
Universal Transverse Mercator: Zone 19
UTM X (Meters): 318353.4
UTM Y (Meters): 4695390.5
Elevation: 196 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42071-D2 LEXINGTON, MA
Most Recent Revision: 1985

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2006, 2008
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No sites were identified in following databases.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites

EXECUTIVE SUMMARY

NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Database/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Aboveground Storage Tank Database

INDIAN UST..... Underground Storage Tanks on Indian Land

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

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

EXECUTIVE SUMMARY

ODI..... Open Dump Inventory
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Historical Spill List

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
FINDS..... Facility Index System/Facility Registry System
RAATS..... RCRA Administrative Action Tracking System
DRYCLEANERS..... Regulated Drycleaning Facilities
ENF..... Enforcement Action Cases
AIRS..... Permitted Facilities Listing
LEAD..... Lead Inspection Database
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

An online review and analysis by TECHLAW, INC. of the CERCLIS list, as provided by EDR, and dated 01/09/2009 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DUFFY BROS CONSTRUCTION INC	411 WAVERLEY OAKS RD.	ESE 0 - 1/8 (0.088 mi.)	C16	145

Federal RCRA generators list

RCRA-SQG: 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.

An online review and analysis by TECHLAW, INC. of the RCRA-SQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>SHRIVER CTR</i>	<i>200 TRAPELO ROAD</i>	<i>0 - 1/8 (0.000 mi.)</i>	<i>A7</i>	<i>50</i>
<i>DUFFY BROS CONST WAVERLY OAKS</i>	<i>411 WAVERLEY OAKS RD</i>	<i>ESE 0 - 1/8 (0.088 mi.)</i>	<i>C17</i>	<i>145</i>
<i>BECTON DICKINSON</i>	<i>411 WAVERLEY OAKS RD</i>	<i>ESE 0 - 1/8 (0.088 mi.)</i>	<i>C18</i>	<i>148</i>
<i>LEXICON INC</i>	<i>100 BEAVER ST</i>	<i>SSW 1/8 - 1/4 (0.181 mi.)</i>	<i>E26</i>	<i>181</i>
<i>LIGHT METAL PLATERS INC</i>	<i>70 CLEMATIS AVE</i>	<i>SE 1/8 - 1/4 (0.219 mi.)</i>	<i>I40</i>	<i>227</i>

EXECUTIVE SUMMARY

RCRA-CESQG: 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

An online review and analysis by TECHLAW, INC. of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CERAMEM CORPORATION	12 CLEMATIS AVE	SSE 1/8 - 1/4 (0.202 mi.)	H36	217

State- and tribal - equivalent CERCLIS

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

An online review and analysis by TECHLAW, INC. of the SHWS list, as provided by EDR, and dated 04/21/2009 has revealed that there are 51 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>
FMR HEATING PLANT SOUTH OF Compliance Status: Release Action Outcome	333 FOREST ST	NW 1/8 - 1/4 (0.236 mi.)	45	264
PROPERTY Compliance Status: Waiver Completion Statement Permanent	659 TRAPELO RD	NW 1/2 - 1 (0.716 mi.)	67	392
BELMONT COUNTRY CLUB Compliance Status: Unclassified	36 COUNTRY CLUB LN	NE 1/2 - 1 (0.993 mi.)	88	501
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REAR GATE OFF WAVERLY OAKS RD Compliance Status: Release Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A2	10
Not reported Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A3	13
POWERPLANT Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A5	42
UTM 4694592N 318350E Compliance Status: Response Action Outcome Not Required Compliance Status: Release Action Outcome <i>*Additional key fields are available in the Map Findings section</i>	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B10	85
GAS STATION Compliance Status: Release Action Outcome	277 WAVERLEY OAKS RD	SW 0 - 1/8 (0.052 mi.)	12	119
DUFFY BROTHERS CONSTRUCTION Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	411 WAVERLEY OAKS RD	ESE 0 - 1/8 (0.088 mi.)	C14	123
REAR AREA OF SITE Compliance Status: Release Action Outcome	411 WAVERLEY OAKS RD	ESE 0 - 1/8 (0.088 mi.)	C15	142

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REAR OF PROPERTY Compliance Status: Response Action Outcome Not Required	411 WAVERLY OAKS	ESE 0 - 1/8 (0.095 mi.)	C19	150
WALTHAM FEDERAL CENTER Compliance Status: Release Action Outcome	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D20	157
FC MURPHY FEDERAL CENTER Compliance Status: Release Action Outcome	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D21	168
NO LOCATION AID Compliance Status: Release Action Outcome	426 TRAPELO RD	NW 1/8 - 1/4 (0.165 mi.)	D23	174
SHELL SERVICE STATION #137873 Compliance Status: Unclassified	225 WAVERLY OAKS RD	SW 1/8 - 1/4 (0.169 mi.)	24	177
CLEMATIS CORPORATION Compliance Status: Release Action Outcome	117 BEAVER ST	SSW 1/8 - 1/4 (0.191 mi.)	F28	185
NO LOCATION AID Compliance Status: Response Action Outcome Not Required Compliance Status: Release Action Outcome <i>*Additional key fields are available in the Map Findings section</i>	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F29	187
GEORGE MORE FACILITY FMR Compliance Status: Release Action Outcome	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F30	198
LIGHT METAL PLATERS Compliance Status: Response Action Outcome Not Required	70 TO 74 CLEMATIS AVE	SE 1/8 - 1/4 (0.197 mi.)	31	207
UNIVERSITY OF MASSACHUSETTS Compliance Status: Unclassified	225-227 BEAVER ST	SW 1/8 - 1/4 (0.209 mi.)	39	225
U-MASS WALTHAM Compliance Status: Unclassified Compliance Status: Unclassified	240 BEAVER ST	SW 1/8 - 1/4 (0.219 mi.)	J41	239
INDUSTRIAL PROPERTY Compliance Status: Remedy Operation Status Compliance Status: Remedy Operation Status	70-74 CLEMATIS AVE	SE 1/8 - 1/4 (0.227 mi.)	I43	249
MANHOLE HALFWAT DOWN DRIVEWAY Compliance Status: Release Action Outcome	102 CLEMATIS AVE	SE 1/4 - 1/2 (0.252 mi.)	K47	275
Not reported Compliance Status: Release Action Outcome	475 TRAPELLO RD.	NW 1/4 - 1/2 (0.271 mi.)	L48	281
METROPOLITAN STATE COLLEGE Compliance Status: Tier II Release .	475 TRAPELO RD	NW 1/4 - 1/2 (0.271 mi.)	L49	287
BETWEEN BLDG 148 AND 148A Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	175 FOREST ST	WSW 1/4 - 1/2 (0.319 mi.)	M51	300
BENTLEY COLLEGE Compliance Status: Not a Disposal Site (DEP)	175 FOREST ST	WSW 1/4 - 1/2 (0.319 mi.)	M52	305
POLE #31 Compliance Status: Release Action Outcome	264 BEAL ST	SSE 1/4 - 1/2 (0.320 mi.)	53	307
NO LOCATION AID Compliance Status: Release Action Outcome	115 MILL ST	ENE 1/4 - 1/2 (0.373 mi.)	N54	311
MCLEAN HOSPITAL Compliance Status: Release Action Outcome	115 MILL STREET	ENE 1/4 - 1/2 (0.373 mi.)	N55	318
Not reported Compliance Status: Release Action Outcome	115 MILL ST.	ENE 1/4 - 1/2 (0.373 mi.)	N56	347

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported Compliance Status: Release Action Outcome	145 BROOKSIDE AVE	NE 1/4 - 1/2 (0.402 mi.)	57	354
DANA ATHLETIC CTR OFF FIELD RD Compliance Status: Release Action Outcome	500 BEAVER ST	SW 1/2 - 1 (0.548 mi.)	60	362
NO LOCATION AID Compliance Status: Release Action Outcome	563 TRAPELO RD	ESE 1/2 - 1 (0.588 mi.)	61	368
INTERSECTION Compliance Status: Release Action Outcome	WARREN ST / CHAFFEE ST	S 1/2 - 1 (0.641 mi.)	62	373
PROPERTY Compliance Status: Release Action Outcome	1010 PLEASANT ST	ESE 1/2 - 1 (0.660 mi.)	63	376
Not reported Compliance Status: Downgradient Property Status	TRAPELO RD.	ESE 1/2 - 1 (0.664 mi.)	65	383
FORMER MOBIL STN 11798 (FRMLY Compliance Status: Release Action Outcome	27 LEXINGTON ST	ESE 1/2 - 1 (0.677 mi.)	66	389
BELMONT SPRINGS WATER CO Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	1010 PLEASANT ST	ESE 1/2 - 1 (0.720 mi.)	68	395
JIMMY KS DRYCLEANERS Compliance Status: Release Action Outcome	10 WARREN ST	SSW 1/2 - 1 (0.739 mi.)	69	411
SHELL SERVICE STATION #137871 Compliance Status: Unclassified	65 MAIN ST	SSW 1/2 - 1 (0.763 mi.)	71	417
NO LOCATION AID Compliance Status: Release Action Outcome	43 WHITE ST	ESE 1/2 - 1 (0.775 mi.)	72	421
NO LOCATION AID Compliance Status: Release Action Outcome	15-21 MAIN ST	S 1/2 - 1 (0.780 mi.)	73	424
GASOLINE STATION FMR Compliance Status: No Further Action (DEP Determined)	127-131 LINDEN ST	SW 1/2 - 1 (0.812 mi.)	74	430
RESIDENCE Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	56 ROBIN WOOD RD	NE 1/2 - 1 (0.821 mi.)	75	432
ORCHARD ST Compliance Status: Release Action Outcome	917 BELMONT ST	ESE 1/2 - 1 (0.824 mi.)	76	441
NO LOCATION AID Compliance Status: Release Action Outcome	85 LINDEN ST	SW 1/2 - 1 (0.861 mi.)	O78	448
Not reported Compliance Status: Release Action Outcome	24 CAREY AVE	SE 1/2 - 1 (0.924 mi.)	P84	472
PROPERTY Compliance Status: Release Action Outcome	249 LEXINGTON ST	SE 1/2 - 1 (0.926 mi.)	85	477
RESIDENCE Compliance Status: Release Action Outcome	73 ELLISON PARK	SW 1/2 - 1 (0.954 mi.)	86	479
42-22-34 71-11-28 Compliance Status: Release Action Outcome	185-187 EDENFIELD RD	SE 1/2 - 1 (0.998 mi.)	89	507

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: Sites within the Releases Database that have a UST listed as its source.

An online review and analysis by TECHLAW, INC. of the LUST list, as provided by EDR, and dated 04/21/2009 has revealed that there are 13 LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MALONE PARK BLDG NO 21 Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A1	7
Not reported Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A3	13
MALONE PARK BLDG NO 23 Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A4	37
POWERPLANT Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A5	42
FERNALD STATE SCHOOL Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A8	60
UTM 4694592N 318350E Facility Status: Response Action Outcome	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B10	85
WALTHAM FEDERAL CENTER Facility Status: Response Action Outcome	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D20	157
NO LOCATION AID Facility Status: Response Action Outcome	10 CLEMATIS AVE	SSE 1/8 - 1/4 (0.206 mi.)	H37	219
U-MASS WALTHAM Facility Status: Response Action Outcome	240 BEAVER ST	SW 1/8 - 1/4 (0.219 mi.)	J41	239
METROPOLITAN STATE HOSPITAL Facility Status: Response Action Outcome	475 TRAPELO ROAD	NW 1/4 - 1/2 (0.271 mi.)	L50	291
MCLEAN HOSPITAL Facility Status: Response Action Outcome	115 MILL STREET	ENE 1/4 - 1/2 (0.373 mi.)	N55	318
BENTLEY COLLEGE Facility Status: Response Action Outcome	400 BEAVER ST	SW 1/4 - 1/2 (0.453 mi.)	58	356
SYCAMORE AUTO SERVICES Facility Status: Response Action Outcome	257 SYCAMORE ST	ESE 1/4 - 1/2 (0.490 mi.)	59	359

LAST: The Leaking Aboveground Storage Tanks database

An online review and analysis by TECHLAW, INC. of the LAST list, as provided by EDR, and dated 04/21/2009 has revealed that there are 3 LAST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UTM 4694592N 318350E Facility Status: Response Action Outcome	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B10	85
INDUSTRIAL PROPERTY	70-74 CLEMATIS AVE	SE 1/8 - 1/4 (0.227 mi.)	I43	249
MANHOLE HALFWAT DOWN DRIVEWAY Facility Status: Response Action Outcome	102 CLEMATIS AVE	SE 1/4 - 1/2 (0.252 mi.)	K47	275

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

An online review and analysis by TECHLAW, INC. of the UST list, as provided by EDR, and dated 05/08/2009 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WALTER E FERNALD DEVELOPMENTAL	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A6	47
DUFFY ASSOCIATES	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B9	68
GENERAL SERVICES ADMINISTRATIO	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D22	173
SHELL SERVICE STATION #137873	225 WAVERLY OAKS RD	SW 1/8 - 1/4 (0.169 mi.)	24	177
UMASS EASTERN EXTENSION CENTER	240 BEAVER ST	SW 1/8 - 1/4 (0.219 mi.)	J42	249

State and tribal institutional control / engineering control registries

INST CONTROL: 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.

An online review and analysis by TECHLAW, INC. of the INST CONTROL list, as provided by EDR, and dated 04/21/2009 has revealed that there are 6 INST CONTROL sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FMR HEATING PLANT SOUTH OF	333 FOREST ST	NW 1/8 - 1/4 (0.236 mi.)	45	264
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>Not reported</i>	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A3	13
UTM 4694592N 318350E	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B10	85
NO LOCATION AID	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F29	187
GEORGE MORE FACILITY FMR	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F30	198
METROPOLITAN STATE HOSPITAL	475 TRAPELO ROAD	NW 1/4 - 1/2 (0.271 mi.)	L50	291

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

RELEASE: MA Release Tracking Database.

An online review and analysis by TECHLAW, INC. of the RELEASE list, as provided by EDR, and dated 04/21/2009 has revealed that there are 66 RELEASE 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>
FMR HEATING PLANT SOUTH OF	333 FOREST ST	NW 1/8 - 1/4 (0.236 mi.)	45	264
Facility Status: Response Action Outcome				

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEXACO GAS STATION Facility Status: Response Action Outcome	337 MILL ST	NE 1/2 - 1 (0.664 mi.)	64	380
PROPERTY Facility Status: Waiver Completion Statement,Permanent	659 TRAPELO RD	NW 1/2 - 1 (0.716 mi.)	67	392
BELMONT COUNTRY CLUB Facility Status: Unclassified Waste Site	36 COUNTRY CLUB LN	NE 1/2 - 1 (0.993 mi.)	88	501
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MALONE PARK BLDG NO 21 Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A1	7
REAR GATE OFF WAVERLY OAKS RD Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A2	10
Not reported Facility Status: Response Action Outcome Facility Status: Response Action Outcome <i>*Additional key fields are available in the Map Findings section</i>	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A3	13
MALONE PARK BLDG NO 23 Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A4	37
POWERPLANT Facility Status: Response Action Outcome Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A5	42
FERNALD STATE SCHOOL Facility Status: Response Action Outcome	200 TRAPELO RD	0 - 1/8 (0.000 mi.)	A8	60
UTM 4694592N 318350E Facility Status: Response Action Outcome Facility Status: Response Action Outcome Not Required <i>*Additional key fields are available in the Map Findings section</i>	313 WAVERLEY OAKS RD	SE 0 - 1/8 (0.002 mi.)	B10	85
GAS STATION Facility Status: Response Action Outcome	277 WAVERLEY OAKS RD	SW 0 - 1/8 (0.052 mi.)	12	119
DUFFY BROTHERS CONSTRUCTION Facility Status: Response Action Outcome	411 WAVERLEY OAKS RD	ESE 0 - 1/8 (0.088 mi.)	C14	123
REAR AREA OF SITE Facility Status: Response Action Outcome	411 WAVERLEY OAKS RD	ESE 0 - 1/8 (0.088 mi.)	C15	142
REAR OF PROPERTY Facility Status: Response Action Outcome Not Required	411 WAVERLY OAKS	ESE 0 - 1/8 (0.095 mi.)	C19	150
WALTHAM FEDERAL CENTER Facility Status: Response Action Outcome Facility Status: Response Action Outcome	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D20	157
FC MURPHY FEDERAL CENTER Facility Status: Response Action Outcome	424 TRAPELO RD	NW 1/8 - 1/4 (0.161 mi.)	D21	168
NO LOCATION AID Facility Status: Response Action Outcome	426 TRAPELO RD	NW 1/8 - 1/4 (0.165 mi.)	D23	174
SHELL SERVICE STATION #137873 Facility Status: Unclassified Waste Site	225 WAVERLY OAKS RD	SW 1/8 - 1/4 (0.169 mi.)	24	177
CLEMATIS CORPORATION Facility Status: Response Action Outcome	117 BEAVER ST	SSW 1/8 - 1/4 (0.191 mi.)	F28	185
NO LOCATION AID Facility Status: Response Action Outcome Facility Status: Response Action Outcome <i>*Additional key fields are available in the Map Findings section</i>	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F29	187

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GEORGE MORE FACILITY FMR Facility Status: Response Action Outcome	110 BEAVER ST	SSW 1/8 - 1/4 (0.193 mi.)	F30	198
LIGHT METAL PLATERS Facility Status: Response Action Outcome Not Required	70 TO 74 CLEMATIS AVE	SE 1/8 - 1/4 (0.197 mi.)	31	207
NO LOCATION AID Facility Status: Response Action Outcome	10 CLEMATIS AVE	SSE 1/8 - 1/4 (0.206 mi.)	H37	219
UNIVERSITY OF MASSACHUSETTS Facility Status: Unclassified Waste Site	225-227 BEAVER ST	SW 1/8 - 1/4 (0.209 mi.)	39	225
U-MASS WALTHAM Facility Status: Response Action Outcome Facility Status: Unclassified Waste Site <i>*Additional key fields are available in the Map Findings section</i>	240 BEAVER ST	SW 1/8 - 1/4 (0.219 mi.)	J41	239
INDUSTRIAL PROPERTY	70-74 CLEMATIS AVE	SE 1/8 - 1/4 (0.227 mi.)	I43	249
MANHOLE HALFWAT DOWN DRIVEWAY Facility Status: Response Action Outcome	102 CLEMATIS AVE	SE 1/4 - 1/2 (0.252 mi.)	K47	275
Not reported Facility Status: Response Action Outcome	475 TRAPELLO RD.	NW 1/4 - 1/2 (0.271 mi.)	L48	281
METROPOLITAN STATE COLLEGE	475 TRAPELO RD	NW 1/4 - 1/2 (0.271 mi.)	L49	287
METROPOLITAN STATE HOSPITAL Facility Status: Response Action Outcome	475 TRAPELO ROAD	NW 1/4 - 1/2 (0.271 mi.)	L50	291
BETWEEN BLDG 148 AND 148A Facility Status: Response Action Outcome Facility Status: Response Action Outcome	175 FOREST ST	WSW 1/4 - 1/2 (0.319 mi.)	M51	300
BENTLEY COLLEGE	175 FOREST ST	WSW 1/4 - 1/2 (0.319 mi.)	M52	305
POLE #31 Facility Status: Response Action Outcome	264 BEAL ST	SSE 1/4 - 1/2 (0.320 mi.)	53	307
NO LOCATION AID Facility Status: Response Action Outcome	115 MILL ST	ENE 1/4 - 1/2 (0.373 mi.)	N54	311
MCLEAN HOSPITAL Facility Status: Response Action Outcome Facility Status: Response Action Outcome	115 MILL STREET	ENE 1/4 - 1/2 (0.373 mi.)	N55	318
Not reported Facility Status: Response Action Outcome	115 MILL ST.	ENE 1/4 - 1/2 (0.373 mi.)	N56	347
Not reported Facility Status: Response Action Outcome	145 BROOKSIDE AVE	NE 1/4 - 1/2 (0.402 mi.)	57	354
BENTLEY COLLEGE Facility Status: Response Action Outcome	400 BEAVER ST	SW 1/4 - 1/2 (0.453 mi.)	58	356
SYCAMORE AUTO SERVICES Facility Status: Response Action Outcome	257 SYCAMORE ST	ESE 1/4 - 1/2 (0.490 mi.)	59	359
DANA ATHLETIC CTR OFF FIELD RD Facility Status: Response Action Outcome	500 BEAVER ST	SW 1/2 - 1 (0.548 mi.)	60	362
NO LOCATION AID Facility Status: Response Action Outcome Facility Status: Response Action Outcome	563 TRAPELO RD	ESE 1/2 - 1 (0.588 mi.)	61	368
INTERSECTION Facility Status: Response Action Outcome	WARREN ST / CHAFFEE ST	S 1/2 - 1 (0.641 mi.)	62	373
PROPERTY Facility Status: Response Action Outcome	1010 PLEASANT ST	ESE 1/2 - 1 (0.660 mi.)	63	376

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported Facility Status: Downgradient Property Status	TRAPELO RD.	ESE 1/2 - 1 (0.664 mi.)	65	383
FORMER MOBIL STN 11798 (FRMLY) Facility Status: Response Action Outcome	27 LEXINGTON ST	ESE 1/2 - 1 (0.677 mi.)	66	389
BELMONT SPRINGS WATER CO Facility Status: Response Action Outcome Facility Status: Response Action Outcome	1010 PLEASANT ST	ESE 1/2 - 1 (0.720 mi.)	68	395
JIMMY KS DRYCLEANERS Facility Status: Response Action Outcome	10 WARREN ST	SSW 1/2 - 1 (0.739 mi.)	69	411
SHELL SERVICE STATION #137871 Facility Status: Unclassified Waste Site	65 MAIN ST	SSW 1/2 - 1 (0.763 mi.)	71	417
NO LOCATION AID Facility Status: Response Action Outcome	43 WHITE ST	ESE 1/2 - 1 (0.775 mi.)	72	421
NO LOCATION AID Facility Status: Response Action Outcome	15-21 MAIN ST	S 1/2 - 1 (0.780 mi.)	73	424
GASOLINE STATION FMR Facility Status: DEP No Further Action	127-131 LINDEN ST	SW 1/2 - 1 (0.812 mi.)	74	430
RESIDENCE Facility Status: Response Action Outcome	56 ROBIN WOOD RD	NE 1/2 - 1 (0.821 mi.)	75	432
ORCHARD ST Facility Status: Response Action Outcome	917 BELMONT ST	ESE 1/2 - 1 (0.824 mi.)	76	441
NO LOCATION AID Facility Status: Response Action Outcome	656 MAIN ST	S 1/2 - 1 (0.840 mi.)	77	444
NO LOCATION AID Facility Status: Response Action Outcome	85 LINDEN ST	SW 1/2 - 1 (0.861 mi.)	O78	448
Not reported Facility Status: DEP No Further Action	97 LINDEN ST	SW 1/2 - 1 (0.876 mi.)	O79	450
SUNOCO SERVICE STATION Facility Status: Response Action Outcome	600 MAIN ST	SSE 1/2 - 1 (0.886 mi.)	80	452
LENNY'S SERVICE CENTER Facility Status: Response Action Outcome	768 PLEASANT ST	E 1/2 - 1 (0.888 mi.)	81	458
Not reported Facility Status: Response Action Outcome	27 CAREY AVE	SE 1/2 - 1 (0.916 mi.)	P82	462
NO LOCATION AID Facility Status: Response Action Outcome	14 NASH ST	SSE 1/2 - 1 (0.919 mi.)	83	466
Not reported Facility Status: Response Action Outcome	24 CAREY AVE	SE 1/2 - 1 (0.924 mi.)	P84	472
PROPERTY Facility Status: Response Action Outcome	249 LEXINGTON ST	SE 1/2 - 1 (0.926 mi.)	85	477
RESIDENCE Facility Status: Response Action Outcome	73 ELLISON PARK	SW 1/2 - 1 (0.954 mi.)	86	479
FRANETTE CLEANERS Facility Status: Response Action Outcome	399 TRAPELO RD	ESE 1/2 - 1 (0.985 mi.)	87	494
42-22-34 71-11-28 Facility Status: Response Action Outcome	185-187 EDENFIELD RD	SE 1/2 - 1 (0.998 mi.)	89	507

EXECUTIVE SUMMARY

Other Ascertainable Records

RCRA-NonGen: 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.

An online review and analysis by TECHLAW, INC. of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there are 12 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>DUFFY ASSOCIATES</i>	<i>313 WAVERLEY OAKS RD</i>	<i>SE 0 - 1/8 (0.002 mi.)</i>	<i>B9</i>	<i>68</i>
<i>PEIRCE BROTHERS OIL SERVICE IN</i>	<i>329 WAVERLEY OAKS RD BO</i>	<i>SE 0 - 1/8 (0.035 mi.)</i>	<i>11</i>	<i>117</i>
<i>COMPUTER DESIGN & APPLICATIONS</i>	<i>411 WAVERLY OAKS ROAD</i>	<i>ESE 0 - 1/8 (0.088 mi.)</i>	<i>C13</i>	<i>122</i>
<i>MOORE GEORGE W INC</i>	<i>100 BEAVER ST</i>	<i>SSW 1/8 - 1/4 (0.181 mi.)</i>	<i>E25</i>	<i>180</i>
<i>XEROX REPRODUCTION CENTER</i>	<i>135 BEAVER ST</i>	<i>SSW 1/8 - 1/4 (0.187 mi.)</i>	<i>E27</i>	<i>183</i>
<i>GENOME THERAPEUTIC CORP</i>	<i>100 BEAVER ST</i>	<i>S 1/8 - 1/4 (0.198 mi.)</i>	<i>G32</i>	<i>211</i>
<i>ANGIO MEDICAL</i>	<i>100 BEAVER STREET</i>	<i>S 1/8 - 1/4 (0.198 mi.)</i>	<i>G33</i>	<i>213</i>
<i>KANS ENGINEERING & MODEL SHOP</i>	<i>83 BREAVER ST</i>	<i>S 1/8 - 1/4 (0.200 mi.)</i>	<i>H34</i>	<i>214</i>
<i>ELECTRO PAINTERS INC</i>	<i>97 BEAVER ST</i>	<i>S 1/8 - 1/4 (0.201 mi.)</i>	<i>G35</i>	<i>215</i>
<i>THORNTON ASSOC INC</i>	<i>87 BEAVER ST</i>	<i>S 1/8 - 1/4 (0.207 mi.)</i>	<i>38</i>	<i>224</i>
<i>CERAMICS GRINDING CO INC</i>	<i>74 CLEMATIS AVE</i>	<i>SE 1/8 - 1/4 (0.229 mi.)</i>	<i>44</i>	<i>263</i>
<i>LIGHT METAL PLATERS INC</i>	<i>96 CLEMATIS AVE</i>	<i>SE 1/8 - 1/4 (0.249 mi.)</i>	<i>K46</i>	<i>272</i>

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.

An online review and analysis by TECHLAW, INC. of the FUDS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 FUDS 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>
AA BAT		NE 1/2 - 1 (0.744 mi.)	70	417

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
STAR MARKET	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
UTILITY POLE #6	RELEASE, SHWS
AVALON APT COMPLEX	RELEASE, SHWS
CAMBRIDGE RESERVOIR	RELEASE, SHWS
KILN BROOK V	RELEASE, SHWS
DIAMOND JUNIOR HIGH	RELEASE, SHWS
MA HWY GARAGE	RELEASE, SHWS
EXIT 28	RELEASE, SHWS
RTE 20 RAMP	RELEASE, SHWS
BOSTON AND MAINE RAILROAD	RELEASE, SHWS
@ RTE 128	RELEASE, SHWS
MAIN ST SCHOOL ST	RELEASE, SHWS
EXIT 27B	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
POLE #18/IN FRONT OF 179 BEAR HILL RD	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
CHARLES RIVER	RELEASE, SHWS
EXXON TERMINAL	RELEASE, SHWS
QUALITY TRUCKING	RELEASE, SHWS
LAKE ST	RELEASE, SHWS
INTERSECTION OF TRAPELO RD	RELEASE, SHWS
POLE 56	RELEASE, SHWS
BOSTON EDISON CO	RELEASE, SHWS
776 MOODY ST	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
AIR FORCE FACILITY PROSPECT HILL PARK	RELEASE, SHWS
NEAR 27 SCHOOL AVE	RELEASE, SHWS
END OF SIBLEY RD	RELEASE, SHWS
FORMER FULLER HOME	RELEASE, SHWS
INCIDENT	RELEASE, SHWS
NO LOCATION AID	RELEASE, SHWS
SAWINS AND WILLIAMS POND	RELEASE, SHWS, CERC-NFRAP
ARSENAL ST.	RELEASE, SHWS, SPILLS
FMR EXXON	RELEASE, SHWS
FMR EXXON SERVICE STATION	RELEASE, SHWS
WATERTOWN SQUARE PLAZA	RELEASE, LUST, SHWS
PORT OIL SERVICE STATION	RELEASE, LUST, SHWS
42 AND 47 MAIN ST	RELEASE, SHWS
AT INTERSECTION OF LONGFELLOW RD	RELEASE, SHWS
ROUTE 20	RELEASE, SHWS
NSTAR UTILITY POLE # 90/42	RELEASE, SHWS
NSTAR UTILITY POLE # 316/4	RELEASE, SHWS
WATERTOWN LANDFILL (FORMER)	CERCLIS, FINDS
OLD COLONY PETROLEUM	CERC-NFRAP
PROPERTY	RELEASE, LAST
FMR MDC RINK	RELEASE, LUST
BELMONT VOLKSWAGON	RELEASE, LUST
HANSCOM AFB	RELEASE, LUST

EXECUTIVE SUMMARY

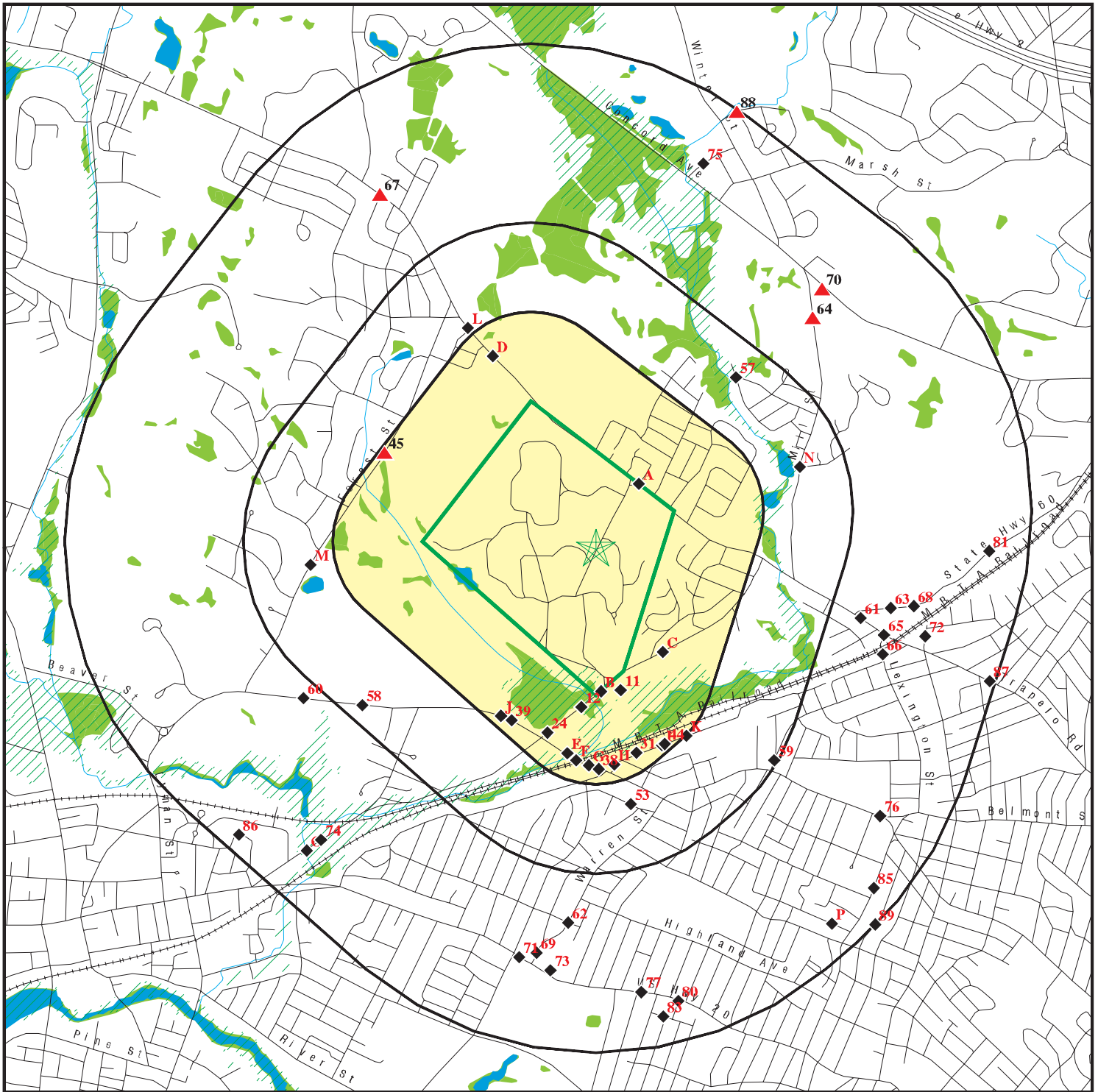
NO LOCATION AID
FITZGERALD SCHOOL
ARCO STATION 11337

CTI CRYOGENICS
NO LOCATION AID
NO LOCATION AID
EXXON STATION FMR

AGT VALVE J11B
ROBINSON AUTO BODY INC
D+R PRODUCTS CO INC
VAIL & MADDEN EXCAVATORS CO INC
WINNBROOK SERVICE CENTER
FRANETTE CLEANSERS INC
BETAGEN CORP
DONS SERVICE CENTER
DONOVANS ALIGHMENT
HULLINC LITTLE FOREIGN CAR GARAGE
DIGITAL PRODUCTS INC
AMERICOLD
WALTHAM FEDERAL CENTER, 424 TRAPELO RD.
JOSEPH SMITH COMMUNITY HEALTH CENTER

RELEASE, LUST
RELEASE, LUST
RELEASE, LUST, INST
CONTROL
RELEASE, LUST
RELEASE, LUST
RELEASE, LUST
RELEASE, LUST, INST
CONTROL
FINDS, RCRA-SQG
RCRA-NonGen
FINDS, RCRA-NonGen
FINDS, RCRA-NonGen
RCRA-CESQG
RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
FINDS, RCRA-CESQG
ERNS
FINDS

OVERVIEW MAP - 2508314.2s



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

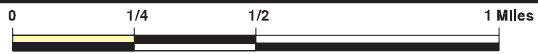
Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Critical Environmental Concern

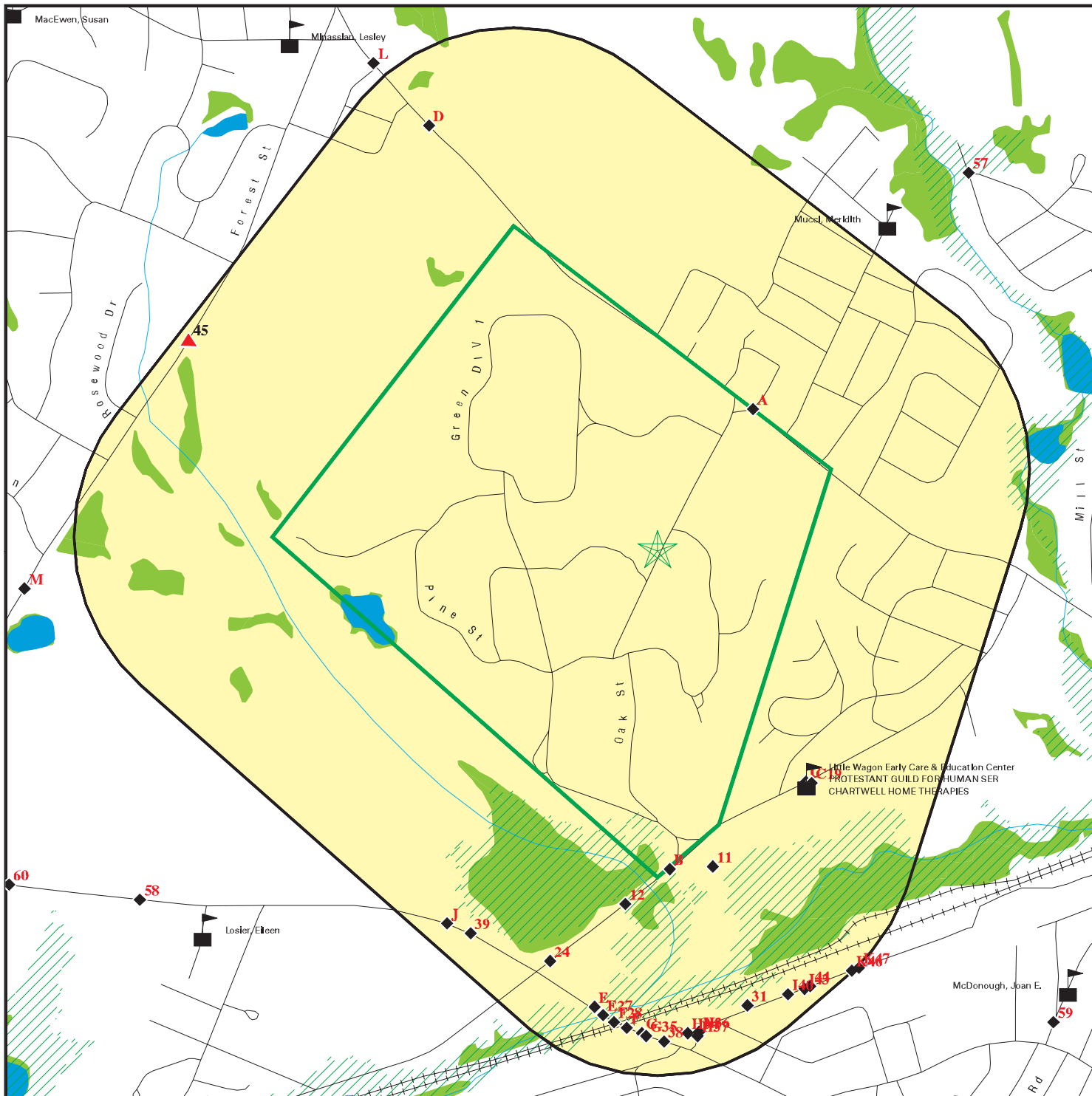


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Fernald Development Center
 ADDRESS: 200 Trapelo Road
 Waltham MA 02452
 LAT/LONG: 42.3915 / 71.2068

CLIENT: TechLaw, Inc.
 CONTACT: Melanie Littman
 INQUIRY #: 2508314.2s
 DATE: June 09, 2009 4:59 pm

DETAIL MAP - 2508314.2s



- 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- 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.

<p>SITE NAME: Fernald Development Center ADDRESS: 200 Trapelo Road Waltham MA 02452 LAT/LONG: 42.3915 / 71.2068</p>	<p>CLIENT: TechLaw, Inc. CONTACT: Melanie Littman INQUIRY #: 2508314.2s DATE: June 09, 2009 5:00 pm</p>
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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	1	0	0	NR	NR	1
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	3	2	NR	NR	NR	5
RCRA-CESQG		0.250	0	1	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	8	12	10	21	NR	51
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.500	6	3	4	NR	NR	13
LAST		0.500	1	1	1	NR	NR	3
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		0.250	2	3	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL		0.500	2	3	1	NR	NR	6
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
RELEASE		1.000	11	13	13	29	NR	66
Other Ascertainable Records								
RCRA-NonGen		0.250	3	9	NR	NR	NR	12
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	1	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
ENF		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
LEAD		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 MALONE PARK BLDG NO 21
200 TRAPELO RD
< 1/8 WALTHAM, MA 02454
1 ft.

LUST S105595319
RELEASE N/A

Site 1 of 8 in cluster A

Relative:
Lower

LUST:

Actual:
186 ft.

Facility:

Facility ID: 3-0021892
Facility Status: Release Action Outcome
Status Date: 07/03/2003
Source Type: UST
Release Town: WALTHAM
Notification Date: 06/27/2002
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: FUEL OIL #2
Quantity: 100 parts per million
Chemical: FUEL OIL #2
Quantity: 200 parts per million

Location:

Location Type: STATE

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/26/2002
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

MALONE PARK BLDG NO 21 (Continued)

S105595319

reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0021892
Primary ID: Not reported
Official City: WALTHAM
Notification: 06/27/2002
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 07/03/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/26/2002
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

MALONE PARK BLDG NO 21 (Continued)

S105595319

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: FUEL OIL #2
Quantity: 100 parts per million
Chemical: FUEL OIL #2
Quantity: 200 parts per million

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/26/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MALONE PARK BLDG NO 21 (Continued)

S105595319

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/18/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

A2

**REAR GATE OFF WAVERLY OAKS RD
200 TRAPELO RD
WALTHAM, MA 02154**

**SHWS S102085082
RELEASE N/A**

< 1/8
1 ft.

Site 2 of 8 in cluster A

**Relative:
Lower**

SHWS:
Facility ID: 3-0011878
Release Town: WALTHAM
Notification Date: 11/21/1994
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 01/23/1995
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

**Actual:
186 ft.**

Chemical:
Chemical: #6 FUEL OIL
Quantity: 30 gallons

Location:
Location Type: SCHOOL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR GATE OFF WAVERLY OAKS RD (Continued)

S102085082

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: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998

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
Action Stat: RAO Statement Received
Action Date: 01/23/1995
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 Stat: REPORT
Action Date: 01/23/1995
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
Action Stat: REPORT
Action Date: 11/21/1994
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 Stat: Oral Approval of Plan
Action Date: 11/21/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/21/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 3-0011878
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/21/1994
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/23/1995
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR GATE OFF WAVERLY OAKS RD (Continued)

S102085082

to background or a threat of release has been eliminated.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
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
Action Stat: RAO Statement Received
Action Date: 01/23/1995
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 Stat: REPORT
Action Date: 01/23/1995
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
Action Stat: REPORT
Action Date: 11/21/1994
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 Stat: Oral Approval of Plan
Action Date: 11/21/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/21/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #6 FUEL OIL
Quantity: 30 gallons

Location:
Location Type: SCHOOL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998
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: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR GATE OFF WAVERLY OAKS RD (Continued)

S102085082

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

Action Stat: RAO Statement Received

Action Date: 01/23/1995

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 Stat: REPORT

Action Date: 01/23/1995

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

Action Stat: REPORT

Action Date: 11/21/1994

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 Stat: Oral Approval of Plan

Action Date: 11/21/1994

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: Notice of Responsibility

Action Stat: ISSUED

Action Date: 11/21/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

A3

**< 1/8
1 ft.**

**200 TRAPELO RD
WALTHAM, MA
Site 3 of 8 in cluster A**

**SHWS S101030598
LUST N/A
RELEASE
SPILLS
INST CONTROL
LEAD**

**Relative:
Lower**

SHWS:
Facility ID: 3-0015121
Release Town: WALTHAM
Notification Date: 05/20/1997
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 07/11/1997
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

**Actual:
186 ft.**

Chemical:
Chemical: GASOLINE
Quantity: 40 gallons

Location:
Location Type: SCHOOL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Location Type: STATE

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0010367
Release Town: WALTHAM
Notification Date: 12/29/1993
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 06/28/2002
Phase: PHASE IV
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: #6 FUEL OIL
Quantity: 300 gallons
Chemical: #6 FUEL OIL
Quantity: 20 gallons

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Location:
Location Type: SCHOOL

Source:
Source Type: PIPE

Action:
Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/28/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2002
Response Action Outcome: C1

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
Response Action Outcome: C1

Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: RLFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Stat: FOLOFF
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/27/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 06/24/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/05/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 12/29/1993

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1993
Response Action Outcome: C1

LUST:

Facility:

Facility ID: 3-0013467
Facility Status: Release Action Outcome
Status Date: 03/21/2008
Source Type: UST
Release Town: WALTHAM
Notification Date: 02/20/1996
Category: TWO HR
Associated ID: Not reported
Phase: PHASE IV
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: #6 FUEL OIL
Quantity: Not reported

Location:

Location Type: STATE

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 04/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/27/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/04/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Stat: RFI
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/19/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/20/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 02/20/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release

Action Stat: REPORT

Action Date: 02/20/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Facility ID: 3-0010367

Primary ID: Not reported

Official City: WALTHAM

Notification: 12/29/1993

Category: TWO HR

Facility Status: Response Action Outcome

Status Date: 06/28/2002

Phase: PHASE IV

Rspns Actn Outcome Class: Not reported

Oil / Haz Material Type: Not reported

Action:

Action Type: Phase III

Action Stat: Completion Statement Received

Action Date: 06/28/2002

Response Action Outcome: C1

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 06/28/2002

Response Action Outcome: C1

Action Type: AUDCOM

Action Stat: NOA

Action Date: 07/13/1998

Response Action Outcome: C1

Action Type: C&E

Action Stat: RF1

Action Date: 07/13/1998

Response Action Outcome: C1

Action Type: Tier Classification

Action Stat: Revised Statement or Transmittal Received

Action Date: 04/03/1997

Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/27/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 06/24/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/05/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1993
Response Action Outcome: C1

Chemical:
Chemical: #6 FUEL OIL
Quantity: 300 gallons
Chemical: #6 FUEL OIL
Quantity: 20 gallons

Location:
Location Type: SCHOOL

Source:
Source Type: PIPE

Action:
Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/28/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Date: 06/28/2002
Response Action Outcome: C1

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
Response Action Outcome: C1

Action Type: C&E
Action Stat: RF1
Action Date: 07/13/1998
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/18/1995
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/30/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/27/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 06/24/1994
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 03/04/1994
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/07/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/05/1994
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/30/1993
Response Action Outcome: C1

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/29/1993
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1993
Response Action Outcome: C1

Facility ID: 3-0013467

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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S101030598

Primary ID: Not reported
Official City: WALTHAM
Notification: 02/20/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/21/2008
Phase: PHASE IV
Rsps Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 04/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/27/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/04/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Stat: Written Plan Received
Action Date: 04/19/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: #6 FUEL OIL
Quantity: Not reported

Location:
Location Type: STATE

Source:
Source Type: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 04/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/27/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/04/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: RFI
Action Date: 07/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Stat: REPORT
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/19/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Date: 03/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 02/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility ID: 3-0015121
Primary ID: Not reported
Official City: WALTHAM
Notification: 05/20/1997
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 07/11/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
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

(Continued)

S101030598

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 05/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 40 gallons

Location:
Location Type: SCHOOL
Location Type: STATE

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 05/20/1997
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

(Continued)

S101030598

reduced to background.

Action Type: Immediate Response
 Action Stat: Oral Approval of Plan
 Action Date: 05/20/1997
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
 Action Stat: REPORT
 Action Date: 05/20/1997
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
 Action Stat: FLDISS
 Action Date: 05/20/1997
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MA Spills:

Facility ID: 0000
 Staff Lead: GORRASI, M
 Last Entered: 19940503
 Spill Date: 19920624
 Report Date: 19920624
 Case Closed: YES
 Virgin Waste: WASTE
 Env Impact: SOIL
 Material: MISCELLANEOUS OIL
 Qty Reported: UNKNOWN
 Qty Reported: -----
 CAS No: Not reported
 Source: DRUMS
 Incident: DUMPING
 Cleanup Type: ---
 Referral: NO
 Report Prep: Not reported
 Notifier: ELANE CAMPOS/DMR
 Notif Tel: Not reported
 Days/Close: 0

Spill ID: N92-0797
 Date Entered: 19940503
 First Response: 19920624
 Spill Time: Not reported
 Report Time: Not reported
 Mat Type: PETROLEUM
 Contam Soil: Not reported
 Other Impact: Not reported
 Other Material: Not reported
 Qty Actual: LESS THAN 1
 Qty Actual: DRUMS
 PCB Lev (ppm): -----
 Other Source: Not reported
 Other Incdnt: Not reported
 Contractor: NOT USED
 LUST Elig: NO
 Category: Not reported

Facility ID: 0000
 Staff Lead: MACAFEE, K
 Last Entered: 19921016
 Spill Date: 19920316
 Report Date: 19920318
 Case Closed: YES
 Virgin Waste: -----
 Env Impact: SOIL
 Material: OTHER MATERIAL -->
 Qty Reported: UNKNOWN
 Qty Reported: -----
 CAS No: Not reported
 Source: OTHER SOURCE >
 Incident: OTHER RELEASE >

Spill ID: N92-0350
 Date Entered: 19921016
 First Response: 19920324
 Spill Time: Not reported
 Report Time: Not reported
 Mat Type: UNKNOWN
 Contam Soil: Not reported
 Other Impact: Not reported
 Other Material: CONTAMINATED SOIL
 Qty Actual: UNKNOWN
 Qty Actual: -----
 PCB Lev (ppm): -----
 Other Source: UNK
 Other Incdnt: UNK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Cleanup Type: ---
Referral: NO
Report Prep: Not reported
Notifier: ANONYMOUS
Notif Tel: Not reported
Days/Close: 1

Contractor: NOT USED
LUST Elig: ---
Category: 2A

Facility ID: 0000
Staff Lead: DORANT
Last Entered: Not reported
Spill Date: 19801130
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: #6 FUEL OIL
Qty Reported: 200 GAL.
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Spill ID: N80-5148
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Facility ID: 0000
Staff Lead: HIGGINS, R
Last Entered: Not reported
Spill Date: 19860929
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: GASOLINE
Qty Reported: UNKNOWN
Qty Reported: Not reported
CAS No: Not reported
Source: U.S.T.
Incident: LEAK
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Spill ID: N86-0944
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

INST CONTROL:

Release Tracking Number: 3-0013467
Action Type: AUL
Action Stat: RECPT
Action Date: 03/21/2008
Response Action Outcome: A3

Release Tracking Number: 3-0013467

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101030598

Action Type: AUL
Action Stat: LEGNOT
Action Date: 04/14/2008
Response Action Outcome: A3

LEAD:

Community: Waltham
Unit: Not reported
Inspector Name: James Weydt
Inspector License Number: 1196
Activity Type: INSPECT
Activity Date: 12/13/2000
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Waltham
Unit: Not reported
Inspector Name: James Weydt
Inspector License Number: 1196
Activity Type: COMPLIANCE
Activity Date: 12/13/2000
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

A4 MALONE PARK BLDG NO 23
200 TRAPELO RD
< 1/8 WALTHAM, MA 02454
1 ft.

LUST S105595320
RELEASE N/A

Site 4 of 8 in cluster A

Relative:
Lower

LUST:

Actual:
186 ft.

Facility:

Facility ID: 3-0021893
Facility Status: Release Action Outcome
Status Date: 08/04/2005
Source Type: UST
Release Town: WALTHAM
Notification Date: 06/27/2002
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: FUEL OIL #2
Quantity: 100 parts per million
Chemical: FUEL OIL #2
Quantity: 200 parts per million

Location:

Location Type: STATE

Source:

Source Type: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MALONE PARK BLDG NO 23 (Continued)

S105595320

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MALONE PARK BLDG NO 23 (Continued)

S105595320

Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0021893
Primary ID: Not reported
Official City: WALTHAM
Notification: 06/27/2002
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 08/04/2005
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MALONE PARK BLDG NO 23 (Continued)

S105595320

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/18/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/27/2002

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

MALONE PARK BLDG NO 23 (Continued)

S105595320

Chemical:

Chemical: FUEL OIL #2
Quantity: 100 parts per million
Chemical: FUEL OIL #2
Quantity: 200 parts per million

Location:

Location Type: STATE

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/23/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MALONE PARK BLDG NO 23 (Continued)

S105595320

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 08/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 08/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 07/18/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

A5

**POWERPLANT
200 TRAPELO RD
WALTHAM, MA 02154**

**SHWS S101032061
LUST N/A
RELEASE**

< 1/8
1 ft.

Site 5 of 8 in cluster A

**Relative:
Lower**

SHWS:

Facility ID: 3-0015442

Release Town: WALTHAM

Notification Date: 08/19/1997

Category: TWO HR

Associated ID: Not reported

Compliance Status: Release Action Outcome

Status Date: 10/24/1997

Phase: Not reported

Response Action Outcome Class: Not reported

Oil Or Haz Material: Not reported

Chemical:

Chemical: #6 FUEL OIL

Quantity: 100 gallons

Chemical: FUEL OIL #6

Quantity: 100 gallons

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POWERPLANT (Continued)

S101032061

Location:

Location Type: SCHOOL
Location Type: STATE

Source:

Source Type: PIPE
Source Type: VEHICLE

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Facility ID: 3-0015149
Facility Status: Release Action Outcome
Status Date: 07/11/1997
Source Type: UST
Release Town: WALTHAM
Notification Date: 05/30/1997
Category: 72 HR
Associated ID: Not reported
Phase: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POWERPLANT (Continued)

S101032061

Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: GASOLINE
Quantity: 250 parts per million

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/25/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Facility ID: 3-0015149
Primary ID: Not reported
Official City: WALTHAM
Notification: 05/30/1997
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 07/11/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POWERPLANT (Continued)

S101032061

Action Stat: ISSUED
Action Date: 06/25/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: GASOLINE
Quantity: 250 parts per million

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/11/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/25/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 3-0015442
Primary ID: Not reported
Official City: WALTHAM
Notification: 08/19/1997
Category: TWO HR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POWERPLANT (Continued)

S101032061

Facility Status: Response Action Outcome
Status Date: 10/24/1997
Phase: Not reported
Rsps Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #6 FUEL OIL
Quantity: 100 gallons
Chemical: FUEL OIL #6
Quantity: 100 gallons

Location:
Location Type: SCHOOL
Location Type: STATE

Source:
Source Type: PIPE
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POWERPLANT (Continued)

S101032061

Action Stat: RAO Statement Received
Action Date: 10/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/19/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

A6

**WALTER E FERNALD DEVELOPMENTAL CE
200 TRAPELO RD
WALTHAM, MA 02452**

**UST U003655084
N/A**

**< 1/8
1 ft.**

Site 6 of 8 in cluster A

**Relative:
Lower**

UST:
Facility ID: 11192

**Actual:
186 ft.**

Facility:
Owner Id: 7392
Owner: COMM OF MASS DEPT MENTAL RET
Owner Address: 200 TRAPELO RD
Owner City,St,Zip: WALTHAM, MA 02452
Telephone: (781) 894-3600
Description: State
Fire Dept. ID: 17308
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTER E FERNALD DEVELOPMENTAL CE (Continued)

U003655084

Tank ID: 1
Tank Status: Removed
Tank Useage: MV
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Gasoline

Tank ID: 10
Tank Status: Removed
Tank Useage: MV
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Gasoline

Tank ID: 2
Tank Status: Removed
Tank Useage: MV
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Gasoline

Tank ID: 3
Tank Status: Removed
Tank Useage: Other
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 750

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTER E FERNALD DEVELOPMENTAL CE (Continued)

U003655084

Contents: Diesel

Tank ID: 4
Tank Status: Removed
Tank Useage: Other
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 550
Contents: Diesel

Tank ID: 5
Tank Status: Removed
Tank Useage: Other
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1500
Contents: Diesel

Tank ID: 6
Tank Status: Removed
Tank Useage: Other
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

Tank ID: 7
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTER E FERNALD DEVELOPMENTAL CE (Continued)

U003655084

Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

Tank ID: 8
Tank Status: Removed
Tank Useage: MV
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Gasoline

Tank ID: 9
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

A7
SHRIVER CTR
200 TRAPELO ROAD
WALTHAM, MA 02452
< 1/8
1 ft.

RCRA-SQG 1000265155
FINDS MAD073798720
MANIFEST

Site 7 of 8 in cluster A

Relative:
Lower

RCRA-SQG:
Date form received by agency: 10/06/1982
Facility name: EUNICE KENNEDY SHRIVER CENTER
Facility address: 200 TRAPELO RD
WALTHAM, MA 02254
EPA ID: MAD073798720
Mailing address: 200 TRAPELO ROAD
WALTHAM, MA 022540000
Contact: RAGHAVAN SRINIVASA
Contact address: 200 TRAPELO RD
WALTHAM, MA 02254
Contact country: US
Contact telephone: (617) 893-3500
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Small Small Quantity Generator

Actual:
186 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: EUNICE KENNEDY SHRIVER CENTER
Owner/operator address: 200 TRAPELO RD
WALTHAM, MA 02254
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Facility Has Received Notices of Violations:

Regulation violated: SR - 351(4)(c)
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 682
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(a)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 351(9)(c)6
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Regulation violated: SR - 685(1)
Area of violation: State Statute or Regulation
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 686
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(j)
Area of violation: Generators - General
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 351(4)(d)
Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 685(1)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Area of violation: Generators - Pre-transport
Date violation determined: 12/29/1994
Date achieved compliance: 11/04/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 11/04/1996
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/29/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 11/04/1996
Evaluation lead agency: State

Evaluation date: 12/29/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 11/04/1996
Evaluation lead agency: State

Evaluation date: 12/29/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/04/1996
Evaluation lead agency: State

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110003715560

Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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.

MANIFEST:

GEN Cert Date:	6/12/2003
Transporter Recpt Date:	6/12/2003
Number Of Containers:	Not reported
Container Type:	U188U080MA99
Waste Code1:	P105
Waste Code2:	Not reported
Waste Code3:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSD Name:	Northland Environmental Inc.
TSD ID:	rid040098352
TSD Date:	2/1/2005
Date Imported:	9/7/2005 2:14:57 PM
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Manifest Docket Number:	RIS0104659
Waste Description:	LAB PACK
Quantity:	18
WT/Vol Units:	P
Item Number:	3853
Transporter Name:	21ST CENTURY ENV MGT
Transporter EPA ID:	RID980906986
GEN Cert Date:	2/1/2005
Transporter Recpt Date:	2/1/2005
Transporter 2 Recpt Date:	Not reported
TSD Recpt Date:	2/1/2005
EPA ID:	MAD073798720
Transporter 2 ID:	Not reported
Manifest Docket Number:	RIS0104658
Waste Description:	LAB PACK
Quantity:	1
WT/Vol Units:	P
Item Number:	3850
Transporter Name:	21ST CENTURY ENV MGT
Transporter EPA ID:	RID980906986
GEN Cert Date:	2/1/2005
Transporter Recpt Date:	2/1/2005
Transporter 2 Recpt Date:	Not reported
TSD Recpt Date:	2/1/2005
EPA ID:	MAD073798720
Transporter 2 ID:	Not reported
Manifest Docket Number:	RIS0104658

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Waste Description: LAB PACK
Quantity: 155
WT/Vol Units: P
Item Number: 3847
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104659
Waste Description: LAB PACK
Quantity: 5
WT/Vol Units: P
Item Number: 3854
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104657
Waste Description: LAB PACK
Quantity: 7
WT/Vol Units: P
Item Number: 3846
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104657
Waste Description: OILY SOLIDS
Quantity: 200
WT/Vol Units: P
Item Number: 3845
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104658
Waste Description: LAB PACK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Quantity: 40
WT/Vol Units: P
Item Number: 3849
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104659
Waste Description: LAB PACK
Quantity: 1
WT/Vol Units: P
Item Number: 3851
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104658
Waste Description: LAB PACK
Quantity: 15
WT/Vol Units: P
Item Number: 3848
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0104659
Waste Description: LAB PACK
Quantity: 1
WT/Vol Units: P
Item Number: 3852
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 2/1/2005
Transporter Recpt Date: 2/1/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 2/1/2005
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081611
Waste Description: LABPACK
Quantity: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

WT/Vol Units: LBS
Item Number: 11006
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081609
Waste Description: LABPACK
Quantity: 25
WT/Vol Units: LBS
Item Number: 10999
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081609
Waste Description: LABPACK
Quantity: 1
WT/Vol Units: LBS
Item Number: 11000
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081610
Waste Description: LABPACK
Quantity: 5
WT/Vol Units: LBS
Item Number: 11002
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081610
Waste Description: LABPACK
Quantity: 15
WT/Vol Units: LBS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Item Number: 11004
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081610
Waste Description: LABPACK
Quantity: 480
WT/Vol Units: LBS
Item Number: 11005
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081611
Waste Description: LABPACK
Quantity: 10
WT/Vol Units: LBS
Item Number: 11008
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081610
Waste Description: LABPACK
Quantity: 150
WT/Vol Units: LBS
Item Number: 11003
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081609
Waste Description: LABPACK
Quantity: 1
WT/Vol Units: LBS
Item Number: 11001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHRIVER CTR (Continued)

1000265155

Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0081609
Waste Description: LABPACK
Quantity: 35
WT/Vol Units: LBS
Item Number: 10998
Transporter Name: 21ST CENTURY ENV. MGT. INC. - RI
Transporter EPA ID: RID980906986
GEN Cert Date: 6/12/2003
Transporter Recpt Date: 6/12/2003
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD073798720
Transporter 2 ID: Not reported

[Click this hyperlink](#) while viewing on your computer to access
25 additional RI MANIFEST: record(s) in the EDR Site Report.

A8
< 1/8
1 ft.

FERNALD STATE SCHOOL
200 TRAPELO RD
WALTHAM, MA 02154

LUST S101506332
RELEASE N/A

Site 8 of 8 in cluster A

Relative:
Lower

LUST:

Facility:

Actual:
186 ft.

Facility ID: 3-0010725
Facility Status: Release Action Outcome
Status Date: 06/21/2000
Source Type: UST
Release Town: WALTHAM
Notification Date: 03/22/1994
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: GASOLINE
Quantity: Not reported

Location:

Location Type: STATE

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FERNALD STATE SCHOOL (Continued)

S101506332

Action Stat: RAO Statement Received
Action Date: 06/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/07/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/15/1995
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

FERNALD STATE SCHOOL (Continued)

S101506332

reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/19/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/19/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 04/03/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/02/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/31/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FERNALD STATE SCHOOL (Continued)

S101506332

Action Stat: IRA Assessment Only
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0010725
Primary ID: Not reported
Official City: WALTHAM
Notification: 03/22/1994
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 06/21/2000
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/07/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FERNALD STATE SCHOOL (Continued)

S101506332

Action Date: 07/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/19/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/19/1995
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

FERNALD STATE SCHOOL (Continued)

S101506332

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 04/03/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/02/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/31/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/07/2000
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

FERNALD STATE SCHOOL (Continued)

S101506332

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
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Action Type: Release Abatement Measure
Action Stat: Status Report Received
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Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/15/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FERNALD STATE SCHOOL (Continued)

S101506332

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/15/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/19/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/19/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 04/03/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/02/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/31/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 03/22/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/22/1994

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

B9
SE
< 1/8
0.002 mi.
12 ft.

DUFFY ASSOCIATES
313 WAVERLEY OAKS RD
WALTHAM, MA 02452

Site 1 of 2 in cluster B

FINDS **1000287804**
UST **MAD000769646**
RCRA-NonGen
MANIFEST
MANIFEST

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
58 ft.

Registry ID: 110006499609

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.

UST:

Facility ID: 11240

Facility:

Owner Id: 6092
Owner: MOTIVA ENTERPRISES LLC
Owner Address: 7300 WEST FRIENDLY AVE MS F-76
Owner City,St,Zip: GREENSBORO, NC 27420
Telephone: (617) 891-8025
Description: Gas Station
Fire Dept. ID: 17308
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: **Removed**
Tank Usage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

Tank ID: 10
Tank Status: **Removed**
Tank Usage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

Tank ID: 11
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Diesel

Tank ID: 2
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Gasoline

Tank ID: 3
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Gasoline

Tank ID: 4
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Kerosene

Tank ID: 6
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Gasoline

Tank ID: 7
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Kerosene

Tank ID: 9
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Gasoline

RCRA-NonGen:
Date form received by agency: 02/21/1992
Facility name: DUFFY ASSOCIATES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Site name: SHELL OIL CO
Facility address: 313 WAVERLY OAKS RD
WALTHAM, MA 021540000
EPA ID: MAD000769646
Mailing address: 320 INTERSTATE NORTH PKWY
ATLANTA, GA 303390000
Contact: ANN E CAHILL
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (404) 955-4961
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SHELL OIL COMPANY
Owner/operator address: 411 WAVERLY OAKS RD
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: Unknown
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: Unknown
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: Unknown
Used oil processor: Unknown
User oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 07/30/1980
Facility name: DUFFY ASSOCIATES
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: K049
Waste name: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY

Waste code: K051
Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

Waste code: K052
Waste name: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/06/1990
Date achieved compliance: 05/01/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/21/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/01/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/06/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/01/1990
Evaluation lead agency: State

CT MANIFEST:

Manifest No: Not reported
Waste Occurrence: Not reported
UNNA: Not reported
Hazard Class: Not reported
US Dot Description: Not reported
No of Containers: Not reported
Container Type: Not reported
Quantity: Not reported
Weight/Volume: Not reported
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Manifest No: Not reported
Waste Occurrence: Not reported
EPA Waste Code: Not reported
Recycled Waste?: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Year: 1991
Manifest ID: CTF0036795
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/15/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/15/91
Date Received: 03/15/95
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036729
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 02/07/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 02/07/91
Date Received: 02/08/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036793
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/13/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/13/91
Date Received: / /
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036792
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/13/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/13/91
Date Received: / /
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036791
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/13/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/13/91
Date Received: / /
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036790
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/12/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/12/91
Date Received: / /
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036789
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/08/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/08/91
Date Received: 03/08/91
Last modified date: 04/27/04

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036788
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/07/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 03/07/91
Date Received: 03/07/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036787
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/07/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 03/07/91
Date Received: 03/07/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036760
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 02/28/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 02/28/91
Date Received: 02/28/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTC0245526
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 02/26/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 02/26/91
Date Received: 02/26/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036796
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/22/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 03/22/91
Date Received: 03/22/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036794
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDf Address: 130 FREIGHT STREET
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 03/13/91

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 03/13/91
Date Received: 03/14/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1991
Manifest ID: CTF0036728
TSDF EPA ID: CTD072138969
TSDF Name: ENVIRONMENTAL WASTE RESOURCES, INC.
TSDF Address: 130 FREIGHT STREET
TSDF City,St,Zip: WATERBURY, CT 06702
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 02/07/91
Transporter EPA ID: MAD052924495
Transporter Name: ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 02/07/91
Date Received: 02/08/91
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1990
Manifest ID: MAC714543

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

TSDF EPA ID: CTD000604488
TSDF Name: CONNECTICUT TREATMENT CORPORATION
TSDF Address: 51 BRODERICK RD
TSDF City,St,Zip: BRISTOL, CT 06010
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 05/07/90
Transporter EPA ID: CTD000604488
Transporter Name: CONNECTICUT TREATMENT CORPORATION
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No
Date Shipped: 05/07/90
Date Received: 05/07/90
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1990
Manifest ID: MAC714542
TSDF EPA ID: CTD000604488
TSDF Name: CECOS TREATMENT CORPORATION
TSDF Address: 51 BRODERICK RD
TSDF City,St,Zip: BRISTOL, CT 06010
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 02/26/90
Transporter EPA ID: CTD000604488
Transporter Name: CECOS TREATMENT CORPORATION
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Yes
Discrepancies: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Date Shipped: 02/26/90
Date Received: / /
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1989
Manifest ID: MAC714532
TSDf EPA ID: CTD000604488
TSDf Name: CECOS TREATMENT CORPORATION
TSDf Address: 51 BRODERICK RD
TSDf City,St,Zip: BRISTOL, CT 06010
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 09/07/89
Transporter EPA ID: CTD016424210
Transporter Name: TRI-S, INCORPORATED
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: No
Discrepancies: No
Date Shipped: 09/07/89
Date Received: 09/08/89
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1989
Manifest ID: MAC714533
TSDf EPA ID: CTD000604488
TSDf Name: CECOS TREATMENT CORPORATION
TSDf Address: 51 BRODERICK RD
TSDf City,St,Zip: BRISTOL, CT 06010
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 09/08/89
Transporter EPA ID: CTD000604488
Transporter Name: CECOS TREATMENT CORPORATION
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: No
Discrepancies: No
Date Shipped: 09/08/89
Date Received: 09/08/89
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1989
Manifest ID: MAC714538
TSDf EPA ID: CTD000604488
TSDf Name: CECOS TREATMENT CORPORATION
TSDf Address: 51 BRODERICK RD
TSDf City,St,Zip: BRISTOL, CT 06010
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 09/11/89
Transporter EPA ID: CTD016424210
Transporter Name: TRI-S, INCORPORATED
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: No
Discrepancies: P
Date Shipped: 09/11/89
Date Received: 09/11/89
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported
Year: 1989
Manifest ID: MAC714536
TSDf EPA ID: CTD000604488
TSDf Name: CECOS TREATMENT CORPORATION
TSDf Address: 51 BRODERICK RD
TSDf City,St,Zip: BRISTOL, CT 06010
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 09/08/89
Transporter EPA ID: CTD016424210
Transporter Name: TRI-S, INCORPORATED
Transporter Country: USA
Transporter Phone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD000769646
Generator Phone: 6178918025
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: No
Discrepancies: No
Date Shipped: 09/08/89
Date Received: 09/08/89
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported

[Click this hyperlink](#) while viewing on your computer to access
12 additional CT MANIFEST: record(s) in the EDR Site Report.

NY MANIFEST:

EPA ID: MAD000769646
Facility Name: SHELL OIL COMPAY
Facility Address: 313 WAVERLY OAKS ROAD
Facility City: WALTHAM
Facility Address 2: Not reported
Country: USA
Mailing Name: SHELL OIL COMPAY
Mailing Contact: SHELL OIL COMPAY
Mailing Address: 313 WAVERLY OAKS ROAD
Mailing Address 2: Not reported
Mailing City: WALTHAM
Mailing State: MA
Mailing Zip: 02154
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 617-891-8025

Document ID: NYB1878534
Manifest Status: Completed copy
Trans1 State ID: TT80496PA
Trans2 State ID: Not reported
Generator Ship Date: 900102
Trans1 Recv Date: 900102
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900103
Part A Recv Date: 900109
Part B Recv Date: 900111
Generator EPA ID: MAD000769646
Trans1 EPA ID: NYD088658646
Trans2 EPA ID: Not reported
TSDF ID: NYD080336241
Waste Code: D001 - NON-LISTED IGNITABLE WASTES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY ASSOCIATES (Continued)

1000287804

Quantity: 04000
Units: P - Pounds
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 90
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

B10
SE
< 1/8
0.002 mi.
12 ft.

UTM 4694592N 318350E
313 WAVERLEY OAKS RD
WALTHAM, MA 02452

Site 2 of 2 in cluster B

SHWS S105043442
LUST N/A
RELEASE
LAST
INST CONTROL

Relative:
Lower

SHWS:
Facility ID: 3-0018952
Release Town: WALTHAM
Notification Date: 11/11/1999
Category: TWO HR
Associated ID: Not reported
Compliance Status: Response Action Outcome Not Required
Status Date: 06/08/2000
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
58 ft.

Chemical:
Chemical: PETROLEUM
Quantity: 10 gallons
Chemical: WATER
Quantity: 100 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: SEPARATOR

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/08/2000
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTM 4694592N 318350E (Continued)

S105043442

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/21/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 01/10/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/16/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/11/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/11/1999
Response Action Outcome: Not reported

Facility ID: 3-0003078
Release Town: WALTHAM
Notification Date: 10/15/1990
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/06/2004
Phase: PHASE III
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: FUEL DEPOT
Location Type: WETLANDS
Location Type: FORMER
Location Type: TANK FARM

Source:
Source Type: UST
Source Type: AST
Source Type: PIPE

Action:
Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 08/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
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Elevation

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Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/01/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

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UTM 4694592N 318350E (Continued)

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Action Stat: Tier 2 Classification
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/02/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received

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UTM 4694592N 318350E (Continued)

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Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 02/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/30/1998

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Elevation

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UTM 4694592N 318350E (Continued)

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Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

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Database(s)

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility ID: 3-0020538
Release Town: WALTHAM
Notification Date: 03/15/2001
Category: 120 DY
Associated ID: Not reported
Compliance Status: Response Action Outcome Not Required
Status Date: 03/15/2002
Phase: PHASE II
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: DIBENZO[A,H]ANTHRACENE
Quantity: 1.9 milligrams per kilogram
Chemical: TPH
Quantity: 4700 milligrams per kilogram
Chemical: BENZO[A]ANTHRACENE
Quantity: 3.2 milligrams per kilogram
Chemical: BARIUM
Quantity: 3780 milligrams per kilogram
Chemical: BENZO[B]FLUORANTHENE
Quantity: 8.8 milligrams per kilogram
Chemical: BENZO[A]PYRENE
Quantity: 2.8 milligrams per kilogram
Chemical: LEAD
Quantity: 29000 milligrams per kilogram

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Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/15/2002
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/29/2001
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/27/2001
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

LUST:

Facility:

Facility ID: 3-0003078
Facility Status: Release Action Outcome

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Database(s)

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Status Date: 08/06/2004
Source Type: UST
Release Town: WALTHAM
Notification Date: 10/15/1990
Category: NONE
Associated ID: Not reported
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: FUEL DEPOT
Location Type: WETLANDS
Location Type: FORMER
Location Type: TANK FARM

Source:
Source Type: UST
Source Type: AST
Source Type: PIPE

Action:
Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 08/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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UTM 4694592N 318350E (Continued)

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been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/01/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/02/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

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EDR ID Number
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Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III

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UTM 4694592N 318350E (Continued)

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Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 02/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA

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Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1990

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Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Facility ID: 3-0003078
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/15/1990
Category: NONE
Facility Status: Response Action Outcome
Status Date: 08/06/2004
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 08/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/01/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/02/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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UTM 4694592N 318350E (Continued)

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been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
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EDR ID Number
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UTM 4694592N 318350E (Continued)

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Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 02/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification

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UTM 4694592N 318350E (Continued)

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Action Stat: Transmittal Received
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: UNKNOWN

Map ID
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UTM 4694592N 318350E (Continued)

S105043442

Quantity: Not reported

Location:

Location Type: FUEL DEPOT
Location Type: WETLANDS
Location Type: FORMER
Location Type: TANK FARM

Source:

Source Type: UST
Source Type: AST
Source Type: PIPE

Action:

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 08/24/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 08/06/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/23/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 12/22/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/22/2003

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UTM 4694592N 318350E (Continued)

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Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/01/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/15/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 03/15/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/02/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/06/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/01/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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UTM 4694592N 318350E (Continued)

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been implemented.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 02/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

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Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility ID: 3-0018952
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/11/1999
Category: TWO HR
Facility Status: Response Action Outcome Not Required
Status Date: 06/08/2000

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Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/21/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 01/10/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/16/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/11/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/11/1999
Response Action Outcome: Not reported

Chemical:
Chemical: PETROLEUM
Quantity: 10 gallons
Chemical: WATER
Quantity: 100 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: SEPARATOR

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response

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Action Stat: Completion Statement Received
Action Date: 06/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/21/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 01/10/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/16/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/11/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/11/1999
Response Action Outcome: Not reported

Facility ID: 3-0020538
Primary ID: Not reported
Official City: WALTHAM
Notification: 03/15/2001
Category: 120 DY
Facility Status: Response Action Outcome Not Required
Status Date: 03/15/2002
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/15/2002
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Phase I

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Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/29/2001
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/27/2001
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

Chemical:
Chemical: DIBENZO[A,H]ANTHRACENE
Quantity: 1.9 milligrams per kilogram
Chemical: TPH
Quantity: 4700 milligrams per kilogram
Chemical: BENZO[A]ANTHRACENE
Quantity: 3.2 milligrams per kilogram
Chemical: BARIUM
Quantity: 3780 milligrams per kilogram
Chemical: BENZO[B]FLUORANTHENE
Quantity: 8.8 milligrams per kilogram
Chemical: BENZO[A]PYRENE
Quantity: 2.8 milligrams per kilogram
Chemical: LEAD
Quantity: 29000 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure

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EDR ID Number
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UTM 4694592N 318350E (Continued)

S105043442

Action Stat: Status Report Received
Action Date: 05/15/2002
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/29/2001
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/27/2001
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/15/2001
Response Action Outcome: Not reported

LAST:

Facility ID: 3-0003078
Source Type: AST
Release Town: WALTHAM
Notification Date: 10/15/1990
Category: NONE
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 08/06/2004
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

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Location:

Location Type: FUEL DEPOT
Location Type: WETLANDS
Location Type: FORMER
Location Type: TANK FARM

Source:

Source Type: UST
Source Type: AST
Source Type: PIPE

Action:

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 08/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/19/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/01/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 03/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/02/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/08/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

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EDR ID Number
EPA ID Number

UTM 4694592N 318350E (Continued)

S105043442

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 02/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTM 4694592N 318350E (Continued)

S105043442

Action Stat: Status Report Received
Action Date: 03/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 06/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0003078
Action Type: AUL
Action Stat: LEGNOT
Action Date: 08/24/2004
Response Action Outcome: A3

Release Tracking Number: 3-0003078

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTM 4694592N 318350E (Continued)

S105043442

Action Type: AUL
Action Stat: RECPT
Action Date: 08/06/2004
Response Action Outcome: A3

11
SE
< 1/8
0.035 mi.
185 ft.

**PEIRCE BROTHERS OIL SERVICE INC
329 WAVERLEY OAKS RD BOX 327
WALTHAM, MA 02452**

**FINDS 1000354286
RCRA-NonGen MAD062187455**

**Relative:
Lower**

FINDS:
Other Pertinent Environmental Activity Identified at Site

**Actual:
60 ft.**

Registry ID: 110006501669

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.

RCRA-NonGen:

Date form received by agency: 08/14/1980
Facility name: PEIRCE BROTHERS OIL SERVICE INC
Facility address: 329 WAVERLEY OAKS RD BOX 327
WALTHAM, MA 02254
EPA ID: MAD062187455
Contact: WALTER-L PEIRCE
Contact address: 329 WAVERLEY OAKS RD BOX 327
WALTHAM, MA 02254
Contact country: US
Contact telephone: (617) 894-0251
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: PEIRCE BROS OIL SERVICE INC
Owner/operator address: 329 WAVERLEY OAKS RD BOX 327
WALTHAM, MA 02254
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PEIRCE BROTHERS OIL SERVICE INC (Continued)

1000354286

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 08/14/1980
Facility name: PEIRCE BROTHERS OIL SERVICE INC
Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/13/1985
Date achieved compliance: 02/13/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/13/1985
Date achieved compliance: 03/29/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 02/13/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/13/1990
Evaluation lead agency: State

Evaluation date: 02/13/1985

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PEIRCE BROTHERS OIL SERVICE INC (Continued)

1000354286

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - General
 Date achieved compliance: 03/29/1985
 Evaluation lead agency: State

12
SW
 < 1/8
 0.052 mi.
 275 ft.

GAS STATION
277 WAVERLEY OAKS RD
WALTHAM, MA 02154

SHWS **S106511307**
RELEASE **N/A**

Relative:
Lower

SHWS:
 Facility ID: 3-0013458
 Release Town: WALTHAM
 Notification Date: 02/15/1996
 Category: TWO HR
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 02/18/1997
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
52 ft.

Chemical:
 Chemical: GASOLINE
 Quantity: 150 gallons

Location:
 Location Type: COMMERCIAL

Source:
 Source Type: GAS PUMP

Action:
 Action Type: Response Action Outcome
 Action Stat: RAO Statement Received
 Action Date: 02/18/1997
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
 Action Stat: Completion Statement Received
 Action Date: 04/12/1996
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
 Action Stat: REPORT
 Action Date: 04/12/1996
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
 Action Stat: ISSUED
 Action Date: 02/29/1996
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
 Action Stat: REPORT
 Action Date: 02/15/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GAS STATION (Continued)

S106511307

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/15/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/15/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0013458
Primary ID: Not reported
Official City: WALTHAM
Notification: 02/15/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 02/18/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 04/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/29/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 02/15/1996
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

GAS STATION (Continued)

S106511307

reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 150 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: GAS PUMP

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 04/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/29/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 02/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 02/15/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GAS STATION (Continued)

S106511307

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 02/15/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

C13
ESE
< 1/8
0.088 mi.
466 ft.

COMPUTER DESIGN & APPLICATIONS INCORPORATED
411 WAVERLY OAKS ROAD
WALTHAM, MA 02452
Site 1 of 7 in cluster C

FINDS 1000350279
RCRA-NonGen MAD980732812

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
94 ft.

Registry ID: 110006815820

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.

RCRA-NonGen:

Date form received by agency: 12/06/1982
Facility name: COMPUTER DESIGN & APPLICATIONS INC
Facility address: 411 WAVERLEY OAKS RD
WALTHAM, MA 02154
EPA ID: MAD980732812
Mailing address: 411 WAVERLY OAKS RD
WALTHAM, MA 021540000
Contact: KEVIN BURKE
Contact address: 411 WAVERLY OAKS RD
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 647-1900
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: COMPUTER DESIGN & APPLICATIONS INC
Owner/operator address: 411 WAVERLY OAKS RD
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COMPUTER DESIGN & APPLICATIONS INCORPORATED (Continued)

1000350279

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

C14
ESE
< 1/8
0.088 mi.
466 ft.

DUFFY BROTHERS CONSTRUCTION
411 WAVERLEY OAKS RD
WALTHAM, MA

SHWS S106510396
RELEASE N/A

Site 2 of 7 in cluster C

Relative:
Lower

SHWS:
Facility ID: 3-0000454
Release Town: WALTHAM
Notification Date: 01/15/1987
Category: NONE
Associated ID: 3-0000454
Compliance Status: Release Action Outcome
Status Date: 08/11/2008
Phase: PHASE IV
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
94 ft.

Chemical:
Chemical: UNKNOWN CHEMICAL OF UNKNOWN TYPE
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: LAGOON
Source Type: UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action:

Action Type: BWS10
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/08/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/30/2007
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/04/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Stat: RMRINT
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/11/2007
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/26/2007
Response Action Outcome: C2

Action Type: C&E
Action Stat: ACO
Action Date: 03/29/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/08/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/17/2006
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/26/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/21/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/19/2005
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/11/2005
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/10/2004
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/02/2004
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/22/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/13/2004
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/31/2004
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	02/10/2004
Response Action Outcome:	C2
Action Type:	Phase III
Action Stat:	Notice of Delay in meeting Response Action Deadline
Action Date:	01/20/2004
Response Action Outcome:	C2
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	08/19/2003
Response Action Outcome:	C2
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	08/18/2003
Response Action Outcome:	C2
Action Type:	Phase III
Action Stat:	Completion Statement Received
Action Date:	03/27/2003
Response Action Outcome:	C2
Action Type:	Release Abatement Measure
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	01/21/2003
Response Action Outcome:	C2
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	11/25/2002
Response Action Outcome:	C2
Action Type:	Phase III
Action Stat:	Notice of Delay in meeting Response Action Deadline
Action Date:	10/15/2002
Response Action Outcome:	C2
Action Type:	Tier Classification
Action Stat:	Tier 1B Classification
Action Date:	08/16/2002
Response Action Outcome:	C2
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	08/16/2002
Response Action Outcome:	C2
Action Type:	C&E
Action Stat:	INTLET
Action Date:	07/26/2002
Response Action Outcome:	C2
Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Date: 07/18/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/11/2002
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 02/12/2002
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/10/2001
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/12/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/01/1998
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 10/16/1996
Response Action Outcome: C2

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 11/14/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 10/24/1995
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Phase II
Action Stat: APPT1A
Action Date: 02/21/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 12/13/1994
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/09/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: TREGS
Action Stat: BWSC04
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 07/26/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 05/03/1994
Response Action Outcome: C2

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: C2

Release:
Facility ID: 3-0000454
Primary ID: 3-0000454
Official City: WALTHAM
Notification: 01/15/1987
Category: NONE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Facility Status: Response Action Outcome
Status Date: 08/11/2008
Phase: PHASE IV
Rsps Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: BWS10
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/08/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/30/2007
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/04/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Stat: Status Report Received
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/11/2007
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/26/2007
Response Action Outcome: C2

Action Type: C&E
Action Stat: ACO
Action Date: 03/29/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/08/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/17/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2006
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/26/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/21/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/19/2005
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/11/2005
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/10/2004
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/02/2004
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/22/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/13/2004
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/31/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/10/2004
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/20/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/19/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/18/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/27/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/25/2002
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 10/15/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 08/16/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/16/2002
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Date: 07/26/2002
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/18/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/11/2002
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 02/12/2002
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/10/2001
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/12/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/01/1998
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 10/16/1996
Response Action Outcome: C2

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 11/14/1995
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Phase II
Action Stat: APPT1A
Action Date: 10/24/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 02/21/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 12/13/1994
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/09/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: TREGS
Action Stat: BWSC04
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 07/26/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 05/03/1994
Response Action Outcome: C2

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: C2

Chemical:
Chemical: UNKNOWN CHEMICAL OF UNKNOWN TYPE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: LAGOON
Source Type: UNKNOWN

Action:
Action Type: BWS10
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/08/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2008
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/27/2008
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/30/2007
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/04/2007
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 09/14/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/11/2007
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/26/2007
Response Action Outcome: C2

Action Type: C&E
Action Stat: ACO
Action Date: 03/29/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 02/23/2007
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 10/11/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/08/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Date: 08/17/2006
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2006
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/26/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/21/2006
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/19/2005
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/11/2005
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 11/10/2004
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/02/2004
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/22/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/13/2004
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/31/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/10/2004
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/20/2004
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/19/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/18/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/27/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/21/2003
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/25/2002
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 10/15/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 08/16/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/16/2002
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Date: 07/26/2002
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/18/2002
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/11/2002
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 02/12/2002
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/10/2001
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/12/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 05/28/1999
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/01/1998
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 10/16/1996
Response Action Outcome: C2

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 11/14/1995
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROTHERS CONSTRUCTION (Continued)

S106510396

Action Type: Phase II
Action Stat: APPT1A
Action Date: 10/24/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 02/21/1995
Response Action Outcome: C2

Action Type: Phase II
Action Stat: APPT1A
Action Date: 12/13/1994
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/09/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: TREGS
Action Stat: BWSC04
Action Date: 08/25/1994
Response Action Outcome: C2

Action Type: C&E
Action Stat: INTLET
Action Date: 07/26/1994
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 05/03/1994
Response Action Outcome: C2

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: C2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C15
ESE
< 1/8
0.088 mi.
466 ft.

REAR AREA OF SITE
411 WAVERLEY OAKS RD
WALTHAM, MA 02154

SHWS S106510925
RELEASE N/A

Site 3 of 7 in cluster C

Relative:
Lower

SHWS:

Facility ID: 3-0010717
Release Town: WALTHAM
Notification Date: 03/21/1994
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 05/20/1994
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
94 ft.

Chemical:

Chemical: WATER
Quantity: 10 gallons
Chemical: WATER
Quantity: 30 gallons
Chemical: PCB
Quantity: Not reported

Location:

Location Type: WATERBODY
Location Type: COMMERCIAL

Source:

Source Type: TANKER

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/20/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/05/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/21/1994

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR AREA OF SITE (Continued)

S106510925

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 03/21/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0010717

Primary ID: Not reported

Official City: WALTHAM

Notification: 03/21/1994

Category: TWO HR

Facility Status: Response Action Outcome

Status Date: 05/20/1994

Phase: Not reported

Rspns Actn Outcome Class: Not reported

Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 05/20/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 05/19/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 04/05/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLFLD

Action Date: 03/22/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 03/21/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 03/21/1994

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

REAR AREA OF SITE (Continued)

S106510925

reduced to background.

Chemical:

Chemical: WATER
Quantity: 10 gallons
Chemical: WATER
Quantity: 30 gallons
Chemical: PCB
Quantity: Not reported

Location:

Location Type: WATERBODY
Location Type: COMMERCIAL

Source:

Source Type: TANKER

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/20/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/05/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 03/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/21/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 03/21/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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C16 ESE < 1/8 0.088 mi. 466 ft.	DUFFY BROS CONSTRUCTION INC 411 WAVERLEY OAKS RD. WALTHAM, MA 02154 Site 4 of 7 in cluster C	CERCLIS	1000231138 MAD980916316
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Relative: Lower Actual: 94 ft.	<table border="0" style="width: 100%;"> <tr> <td colspan="2">CERCLIS:</td> </tr> <tr> <td style="padding-right: 20px;">Site ID:</td> <td>0100844</td> </tr> <tr> <td>Federal Facility:</td> <td>Not a Federal Facility</td> </tr> <tr> <td>NPL Status:</td> <td>Not on the NPL</td> </tr> <tr> <td>Non NPL Status:</td> <td>Other Cleanup Activity: State-Lead Cleanup</td> </tr> </table>	CERCLIS:		Site ID:	0100844	Federal Facility:	Not a Federal Facility	NPL Status:	Not on the NPL	Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup
CERCLIS:											
Site ID:	0100844										
Federal Facility:	Not a Federal Facility										
NPL Status:	Not on the NPL										
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup										

CERCLIS Site Contact Name(s):

Contact Name:	Nancy Smith
Contact Tel:	(617) 918-1436
Contact Title:	Site Assessment Manager (SAM)

CERCLIS Site Alias Name(s):

Alias Name:	DUFFY FUEL
Alias Address:	Not reported
	MIDDLESEX, MA
Site Description:	Not reported

CERCLIS Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	06/01/1984
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	Not reported
Date Completed:	09/30/1987
Priority Level:	Low priority for further assessment
Action:	SITE INSPECTION
Date Started:	Not reported
Date Completed:	02/25/1991
Priority Level:	Higher priority for further assessment
Action:	SITE REASSESSMENT
Date Started:	Not reported
Date Completed:	08/02/2001
Priority Level:	Low priority for further assessment

C17 ESE < 1/8 0.088 mi. 466 ft.	DUFFY BROS CONST WAVERLY OAKS PK 411 WAVERLEY OAKS RD WALTHAM, MA 02154 Site 5 of 7 in cluster C	RCRA-SQG FINDS MANIFEST	1000231110 MAD019685577
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Relative: Lower Actual: 94 ft.	<table border="0" style="width: 100%;"> <tr> <td colspan="2">RCRA-SQG:</td> </tr> <tr> <td style="padding-right: 20px;">Date form received by agency:</td> <td>12/11/2000</td> </tr> <tr> <td>Facility name:</td> <td>DUFFY BROS CONST WAVERLY OAKS PK</td> </tr> <tr> <td>Facility address:</td> <td>411 WAVERLEY OAKS RD</td> </tr> <tr> <td></td> <td>WALTHAM, MA 02154</td> </tr> <tr> <td>EPA ID:</td> <td>MAD019685577</td> </tr> <tr> <td>Mailing address:</td> <td>411 WAVERLY OAKS RD</td> </tr> <tr> <td></td> <td>WALTHAM, MA 021540000</td> </tr> </table>	RCRA-SQG:		Date form received by agency:	12/11/2000	Facility name:	DUFFY BROS CONST WAVERLY OAKS PK	Facility address:	411 WAVERLEY OAKS RD		WALTHAM, MA 02154	EPA ID:	MAD019685577	Mailing address:	411 WAVERLY OAKS RD		WALTHAM, MA 021540000
RCRA-SQG:																	
Date form received by agency:	12/11/2000																
Facility name:	DUFFY BROS CONST WAVERLY OAKS PK																
Facility address:	411 WAVERLEY OAKS RD																
	WALTHAM, MA 02154																
EPA ID:	MAD019685577																
Mailing address:	411 WAVERLY OAKS RD																
	WALTHAM, MA 021540000																

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROS CONST WAVERLY OAKS PK (Continued)

1000231110

Contact: ROBERT DUFFY
Contact address: 411 WAVERLY OAKS RD
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 647-5775
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: DUFFY BROS CONST WAVERLY OAKS
Owner/operator address: 411 WAVERLY OAKS RD
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 09/25/2000
Facility name: DUFFY BROS CONST WAVERLY OAKS PK
Site name: DUFFY BROS. CONST. CO., INC.
Classification: Large Quantity Generator

Date form received by agency: 03/07/1994
Facility name: DUFFY BROS CONST WAVERLY OAKS PK
Site name: DUFFY BROTHERS CONSTRUCTION, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990
Facility name: DUFFY BROS CONST WAVERLY OAKS PK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROS CONST WAVERLY OAKS PK (Continued)

1000231110

Site name: DUFFY BROS. CONSTR. CO./WAVERLEY OAKS
Classification: Large Quantity Generator

Date form received by agency: 03/13/1985
Facility name: DUFFY BROS CONST WAVERLY OAKS PK
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110006816650

Not reported

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.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

NY MANIFEST:

EPA ID: MAD019685577
Facility Name: DUFFY BROTHERS
Facility Address: 411 WAVERLY OAKS ROAD
Facility City: WALTHAM
Facility Address 2: Not reported
Country: USA
Mailing Name: DUFFY BROTHERS
Mailing Contact: KEVIN P DUFFY
Mailing Address: 411 WAVERLY OAKS ROAD
Mailing Address 2: Not reported
Mailing City: WALTHAM
Mailing State: MA
Mailing Zip: 02154
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 617-647-5775

Document ID: NYB7290531
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: A174975ME
Generator Ship Date: 960604
Trans1 Recv Date: 960604
Trans2 Recv Date: 960607

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUFFY BROS CONST WAVERLY OAKS PK (Continued)

1000231110

TSD Site Recv Date: 960612
Part A Recv Date: 960627
Part B Recv Date: 960710
Generator EPA ID: MAD019685577
Trans1 EPA ID: MAD082303777
Trans2 EPA ID: CTD982191942
TSD ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 03856
Units: P - Pounds
Number of Containers: 017
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00454
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 96
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

**C18
ESE
< 1/8
0.088 mi.
466 ft.**

**BECTON DICKINSON
411 WAVERLEY OAKS RD
WALTHAM, MA 02154
Site 6 of 7 in cluster C**

**RCRA-SQG 1000430294
FINDS MAD047058243**

**Relative:
Lower**

RCRA-SQG:

Date form received by agency: 08/14/1980

Facility name: BECTON DICKINSON

Facility address: 411 WAVERLEY OAKS RD
WALTHAM, MA 02154

EPA ID: MAD047058243

Mailing address: BUILDING 2
411 WAVERLY OAKS RD - STE 229
WALTHAM, MA 02154

Contact: GEORGE KOZLOWSKI SR

Contact address: 411 WAVERLEY OAKS RD
WALTHAM, MA 02154

Contact country: US

Contact telephone: (617) 894-5230

Contact email: Not reported

EPA Region: 01

Classification: Small Small Quantity Generator

**Actual:
94 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BECTON DICKINSON (Continued)

1000430294

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: BECTON DICKINSON
Owner/operator address: 411 WAVERLEY OAKS RD
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BECTON DICKINSON (Continued)

1000430294

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110001999990

Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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.

C19
ESE
 < 1/8
 0.095 mi.
 504 ft.

REAR OF PROPERTY
411 WAVERLY OAKS
WALTHAM, MA
 Site 7 of 7 in cluster C

SHWS **S108034586**
RELEASE **N/A**

Relative:
Lower

SHWS:

Facility ID: 3-0025816
 Release Town: WALTHAM
 Notification Date: 04/14/2006
 Category: TWO HR
 Associated ID: 3-0000454
Compliance Status: Response Action Outcome Not Required
 Status Date: 06/19/2006
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Chemical:

Chemical: WATER
 Quantity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Location:

Location Type: WATERBODY
Location Type: COMMERCIAL

Source:

Source Type: UNKNOWN

Action:

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/17/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/09/2006
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/18/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/18/2006
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Action Type:	Release
Action Stat:	REPORT
Action Date:	04/14/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	04/14/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	08/22/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1B Classification
Action Date:	08/16/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	08/16/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Revised Statement or Transmittal Received
Action Date:	04/11/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	08/12/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	05/28/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	08/25/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	08/25/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1A Classification
Action Date:	08/25/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1A Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Action Date: 05/03/1994
Response Action Outcome: Not reported

Release:

Facility ID: 3-0025816
Primary ID: 3-0000454
Official City: WALTHAM
Notification: 04/14/2006
Category: TWO HR
Facility Status: Response Action Outcome Not Required
Status Date: 06/19/2006
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/17/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/09/2006
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/18/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/18/2006
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/22/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 08/16/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/16/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/11/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/12/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 05/28/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 05/03/1994
Response Action Outcome: Not reported

Chemical:
Chemical: WATER
Quantity: Not reported

Location:
Location Type: WATERBODY
Location Type: COMMERCIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 11/25/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/17/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/30/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 06/19/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/19/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/09/2006
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/18/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/18/2006
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 08/22/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 08/16/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/16/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/11/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/12/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 05/28/1999
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REAR OF PROPERTY (Continued)

S108034586

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/25/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 05/03/1994
Response Action Outcome: Not reported

D20
NW
1/8-1/4
0.161 mi.
852 ft.

WALTHAM FEDERAL CENTER
424 TRAPELO RD
WALTHAM, MA 02154
Site 1 of 4 in cluster D

SHWS S101045421
LUST N/A
RELEASE
SPILLS

Relative:
Lower

SHWS:
Facility ID: 3-0017581
Release Town: WALTHAM
Notification Date: 11/16/1998
Category: 72 HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 03/15/2001
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
188 ft.

Chemical:
Chemical: NAPL
Quantity: 4 inches
Chemical: #4 FUEL OIL
Quantity: .5 inches

Location:
Location Type: FEDERAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/05/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/29/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2000
Response Action Outcome: C1

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/16/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/21/1998
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Type: C&E
Action Stat: INTLET
Action Date: 12/21/1998
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 11/16/1998
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 11/16/1998
Response Action Outcome: C1

LUST:

Facility:

Facility ID: 3-0006013
Facility Status: Release Action Outcome
Status Date: 03/15/2001
Source Type: UST
Release Town: WALTHAM
Notification Date: 01/24/1994
Category: NONE
Associated ID: Not reported
Phase: PHASE IV
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PETROLEUM
Quantity: Not reported

Location:

Location Type: FEDERAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 12/15/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 07/08/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 02/06/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Date: 01/31/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 07/10/2007
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/13/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/24/1994
Response Action Outcome: C1

Action Type: C&E
Action Stat: INTLET
Action Date: 01/24/1994
Response Action Outcome: C1

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/24/1994
Response Action Outcome: C1

Release:

Facility ID: 3-0006013
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/24/1994
Category: NONE
Facility Status: Response Action Outcome
Status Date: 03/15/2001
Phase: PHASE IV
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 12/15/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 07/08/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 02/06/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 01/31/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 07/10/2007
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/13/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/24/1994
Response Action Outcome: C1

Action Type: C&E
Action Stat: INTLET
Action Date: 01/24/1994
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/24/1994
Response Action Outcome: C1

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: FEDERAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 12/15/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 07/08/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 02/06/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: IMRCD
Action Date: 01/31/2008
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 07/10/2007
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/13/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2000
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: C1

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/24/1994
Response Action Outcome: C1

Action Type: C&E
Action Stat: INTLET
Action Date: 01/24/1994
Response Action Outcome: C1

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/24/1994
Response Action Outcome: C1

Facility ID: 3-0017581
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/16/1998
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 03/15/2001
Phase: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/05/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/29/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2000
Response Action Outcome: C1

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/16/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 02/10/1999
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/21/1998
Response Action Outcome: C1

Action Type: C&E
Action Stat: INTLET
Action Date: 12/21/1998
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 11/16/1998
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 11/16/1998
Response Action Outcome: C1

Chemical:
Chemical: NAPL
Quantity: 4 inches
Chemical: #4 FUEL OIL
Quantity: .5 inches

Location:
Location Type: FEDERAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 05/03/2002
Response Action Outcome: C1

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/15/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/27/2001
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/05/2001
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/29/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2000
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2000
Response Action Outcome: C1

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 11/03/1999
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/16/1999
Response Action Outcome: C1

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: RNF
Action Stat: REPORT
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/10/1999
Response Action Outcome: C1

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/21/1998
Response Action Outcome: C1

Action Type: C&E
Action Stat: INTLET
Action Date: 12/21/1998
Response Action Outcome: C1

Action Type: Release
Action Stat: REPORT
Action Date: 11/16/1998
Response Action Outcome: C1

Action Type: Immediate Response
Action Stat: IRA Assessment Only

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALTHAM FEDERAL CENTER (Continued)

S101045421

Action Date: 11/16/1998
Response Action Outcome: C1

MA Spills:

Facility ID:	3-6013	Spill ID:	N93-0030
Staff Lead:	SAYERS, S	Date Entered:	19940207
Last Entered:	19940207	First Response:	19930107
Spill Date:	19930107	Spill Time:	Not reported
Report Date:	19930107	Report Time:	09:10
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#4 FUEL OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	PIPE/HOSE/LINE	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	LARRY FAUS/FED CENTER		
Notif Tel:	Not reported		
Days/Close:	0		

D21
NW
1/8-1/4
0.161 mi.
852 ft.

FC MURPHY FEDERAL CENTER
424 TRAPELO RD
WALTHAM, MA

SHWS S104179968
RELEASE N/A

Site 2 of 4 in cluster D

Relative:
Lower

SHWS:

Facility ID:	3-0018887
Release Town:	WALTHAM
Notification Date:	10/18/1999
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	Release Action Outcome
Status Date:	02/21/2001
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	2-METHYLNAPHTHALENE
Quantity:	Not reported
Chemical:	BENZO(A)ANTHRACENE
Quantity:	2.1 parts per million
Chemical:	BENZO(A)PYRENE
Quantity:	2 parts per million

Location:

Location Type:	Not reported
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Source:

Source Type:	Not reported
--------------	--------------

Action:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FC MURPHY FEDERAL CENTER (Continued)

S104179968

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Refunded
Action Date: 02/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 02/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 01/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/18/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FC MURPHY FEDERAL CENTER (Continued)

S104179968

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/18/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0018887
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/18/1999
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 02/21/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Refunded
Action Date: 02/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 02/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 01/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/17/2000
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

FC MURPHY FEDERAL CENTER (Continued)

S104179968

reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: 2-METHYLNAPHTHALENE
Quantity: Not reported
Chemical: BENZO(A)ANTHRACENE
Quantity: 2.1 parts per million
Chemical: BENZO(A)PYRENE
Quantity: 2 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Refunded
Action Date: 02/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 02/26/2001
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

FC MURPHY FEDERAL CENTER (Continued)

S104179968

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 01/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/18/1999
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

D22
NW
1/8-1/4
0.161 mi.
852 ft.

GENERAL SERVICES ADMINISTRATION
424 TRAPELO RD
WALTHAM, MA 02452
Site 3 of 4 in cluster D

UST U003287536
N/A

Relative:
Lower

UST:
Facility ID: 40051

Actual:
188 ft.

Facility:
Owner Id: 7937
Owner: GENERAL SERVICES ADMIN
Owner Address: 424 TRAPELO RD
Owner City,St,Zip: WALTHAM, MA 02452
Telephone: (617) 647-8480
Description: Other
Fire Dept. ID: 17308
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Cathodic
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 2000
Contents: Gasoline

Tank ID: 2
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Cathodic
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 2000
Contents: Diesel

Tank ID: 3
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL SERVICES ADMINISTRATION (Continued)

U003287536

Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 550
Contents: Diesel

D23
NW
1/8-1/4
0.165 mi.
872 ft.

NO LOCATION AID
426 TRAPELO RD
WALTHAM, MA 02154

SHWS **S102967429**
RELEASE **N/A**

Site 4 of 4 in cluster D

Relative:
Lower

SHWS:
Facility ID: 3-0015749
Release Town: WALTHAM
Notification Date: 11/25/1997
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 01/26/1998
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
188 ft.

Chemical:
Chemical: DIESEL FUEL
Quantity: 12 gallons
Chemical: DIESEL FUEL
Quantity: 10 gallons

Location:
Location Type: FEDERAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/26/1998
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 Stat: REPORT
Action Date: 01/26/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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: C&E
Action Stat: NON
Action Date: 12/01/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967429

to background or a threat of release has been eliminated.

Action Type: Release
Action Stat: REPORT
Action Date: 11/25/1997
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 Stat: Oral Approval of Plan
Action Date: 11/25/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 3-0015749
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/25/1997
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/26/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/26/1998
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 Stat: REPORT
Action Date: 01/26/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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: C&E
Action Stat: NON
Action Date: 12/01/1997
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
Action Stat: REPORT
Action Date: 11/25/1997
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)

S102967429

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/25/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: DIESEL FUEL
Quantity: 12 gallons
Chemical: DIESEL FUEL
Quantity: 10 gallons

Location:
Location Type: FEDERAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/26/1998
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 Stat: REPORT
Action Date: 01/26/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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: C&E
Action Stat: NON
Action Date: 12/01/1997
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
Action Stat: REPORT
Action Date: 11/25/1997
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 Stat: Oral Approval of Plan
Action Date: 11/25/1997
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

24
SW
1/8-1/4
0.169 mi.
890 ft.

SHELL SERVICE STATION #137873
225 WAVERLY OAKS RD
WALTHAM, MA 02452

SHWS U002008217
RELEASE N/A
UST

Relative:
Lower

SHWS:
Facility ID: 3-0027761
Release Town: WALTHAM
Notification Date: 06/12/2008
Category: 120 DY
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 06/12/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
56 ft.

Chemical:
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 11600 micrograms per liter
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 4520 micrograms per liter
Chemical: MTBE
Quantity: 18600 micrograms per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Notice of Responsibility
Action Stat: ALSSENT
Action Date: 04/10/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/28/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/12/2008
Response Action Outcome: Not reported

Release:
Facility ID: 3-0027761
Primary ID: Not reported
Official City: WALTHAM
Notification: 06/12/2008
Category: 120 DY
Facility Status: Unclassified Waste Site

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137873 (Continued)

U002008217

Status Date: 06/12/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 04/10/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/28/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/12/2008
Response Action Outcome: Not reported

Chemical:

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 11600 micrograms per liter
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 4520 micrograms per liter
Chemical: MTBE
Quantity: 18600 micrograms per liter

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 04/10/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/28/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/12/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137873 (Continued)

U002008217

Response Action Outcome: Not reported

UST:

Facility ID: 11216

Facility:

Owner Id: 6092
Owner: MOTIVA ENTERPRISES LLC
Owner Address: 7300 WEST FRIENDLY AVE MS F-76
Owner City,St,Zip: GREENSBORO, NC 27420
Telephone: (401) 578-1458
Description: Gas Station
Fire Dept. ID: 17308
Date of Inspection: 4/13/2007
Inspector: George Nice
Overfill Prevention: Yes
Spill Prevention: Yes

Tank ID: 1
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 2
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 3
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137873 (Continued)

U002008217

Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

E25
SSW
1/8-1/4
0.181 mi.
958 ft.

MOORE GEORGE W INC
100 BEAVER ST
WALTHAM, MA 02154

FINDS 1000355020
RCRA-NonGen MAD001020635

Site 1 of 3 in cluster E

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
46 ft.

Registry ID: 110006499869

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.

RCRA-NonGen:

Date form received by agency: 11/04/1980
Facility name: MOORE GEORGE W INC
Facility address: 100 BEAVER ST
WALTHAM, MA 02154
EPA ID: MAD001020635
Contact: BARRY MOORE
Contact address: 100 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 891-1962
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: GEORGE W MOORE INCORPORATED
Owner/operator address: 100 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOORE GEORGE W INC (Continued)

1000355020

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste code: F007
Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

Waste code: F008
Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

Waste code: F009
Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

Violation Status: No violations found

E26
SSW
1/8-1/4
0.181 mi.
958 ft.

LEXICON INC
100 BEAVER ST
WALTHAM, MA 02154
Site 2 of 3 in cluster E

RCRA-SQG **1000247305**
FINDS **MAD982192536**

Relative:
Lower

RCRA-SQG:
Date form received by agency: 09/30/1987
Facility name: LEXICON INC
Facility address: 100 BEAVER ST
WALTHAM, MA 02154
EPA ID: MAD982192536
Contact: CHARLES BAGLEY
Contact address: 100 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 891-6790
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator

Actual:
46 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEXICON INC (Continued)

1000247305

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: RONALD NOONAN
Owner/operator address: 100 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110009591085

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,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEXICON INC (Continued)

1000247305

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.

E27
SSW
1/8-1/4
0.187 mi.
986 ft.

XEROX REPRODUCTION CENTER
135 BEAVER ST
WALTHAM, MA 02452
Site 3 of 3 in cluster E

FINDS 1000344196
RCRA-NonGen MAD981208226

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
43 ft.

Registry ID: 110006503382

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.

RCRA-NonGen:

Date form received by agency: 09/25/1986
Facility name: XEROX REPRODUCTION CENTER
Facility address: 135 BEAVER ST
WALTHAM, MA 02154
EPA ID: MAD981208226
Contact: LORIE ZINZMISTER
Contact address: 135 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 891-5619
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: XEROX CORP
Owner/operator address: 135 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XEROX REPRODUCTION CENTER (Continued)

1000344196

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D011
Waste name: SILVER

Facility Has Received Notices of Violations:

Regulation violated: SR - 332
Area of violation: Generators - General
Date violation determined: 06/26/1986
Date achieved compliance: 05/06/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/14/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 21C section 5
Area of violation: Generators - General
Date violation determined: 06/26/1986
Date achieved compliance: 05/06/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/14/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340
Area of violation: Generators - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XEROX REPRODUCTION CENTER (Continued)

1000344196

Date violation determined: 06/26/1986
Date achieved compliance: 05/06/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/14/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/06/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/26/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/06/1987
Evaluation lead agency: State

F28
SSW
1/8-1/4
0.191 mi.
1006 ft.

CLEMATIS CORPORATION
117 BEAVER ST
WALTHAM, MA 02154
Site 1 of 3 in cluster F

SHWS **S102687013**
RELEASE **N/A**

Relative:
Lower

SHWS:
Facility ID: 3-0002692
Release Town: WALTHAM
Notification Date: 01/15/1990
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/09/1996
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
44 ft.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: RAILROAD

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/09/1996
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

CLEMATIS CORPORATION (Continued)

S102687013

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID: 3-0002692
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/15/1990
Category: NONE
Facility Status: Response Action Outcome
Status Date: 08/09/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

Location:

Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:

Source Type: RAILROAD

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
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

F29
SSW
1/8-1/4
0.193 mi.
1021 ft.

NO LOCATION AID
110 BEAVER ST
WALTHAM, MA
Site 2 of 3 in cluster F

SHWS S103546203
RELEASE N/A
INST CONTROL

Relative:
Lower

SHWS:
Facility ID: 3-0017435
Release Town: WALTHAM
Notification Date: 10/14/1998
Category: TWO HR
Associated ID: Not reported
Compliance Status: Response Action Outcome Not Required
Status Date: 12/17/1998
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
48 ft.

Chemical:
Chemical: CYANIDE
Quantity: 2400 milligrams per kilogram
Chemical: CYANIDE
Quantity: 2400 milligrams per kilogram

Location:
Location Type: INDUSTRIAL

Source:
Source Type: FLR SUMP

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/24/1998
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/29/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/29/1998
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Action Type: Release
Action Stat: REPORT
Action Date: 10/14/1998
Response Action Outcome: Not reported

Facility ID: 3-0018647
Release Town: WALTHAM
Notification Date: 09/14/1999
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 10/28/1999
Phase: PHASE III
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: PCB
Quantity: 26.1 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/06/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility ID: 3-0017779
Release Town: WALTHAM
Notification Date: 12/22/1998
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 10/28/1999
Phase: PHASE III
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: BENZO[A]ANTHRACENE
Quantity: 2.35 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 217 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 2600 milligrams per kilogram

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Release:

Facility ID: 3-0017435
Primary ID: Not reported
Official City: WALTHAM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Notification: 10/14/1998
Category: TWO HR
Facility Status: Response Action Outcome Not Required
Status Date: 12/17/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/24/1998
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/29/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/29/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/14/1998
Response Action Outcome: Not reported

Chemical:
Chemical: CYANIDE
Quantity: 2400 milligrams per kilogram
Chemical: CYANIDE
Quantity: 2400 milligrams per kilogram

Location:
Location Type: INDUSTRIAL

Source:
Source Type: FLR SUMP

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/24/1998
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/29/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/29/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/14/1998
Response Action Outcome: Not reported

Facility ID: 3-0017779
Primary ID: Not reported
Official City: WALTHAM
Notification: 12/22/1998
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 10/28/1999
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Action Date: 06/27/2002
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Chemical: BENZO[A]ANTHRACENE
Quantity: 2.35 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 217 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 2600 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/22/1998
Response Action Outcome: Not reported

Facility ID: 3-0018647
Primary ID: Not reported
Official City: WALTHAM
Notification: 09/14/1999
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 10/28/1999
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MAP FINDINGS

NO LOCATION AID (Continued)

S103546203

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:

Chemical: PCB
 Quantity: 26.1 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: AUDCOM
 Action Stat: NAFNVD
 Action Date: 10/06/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
 Action Stat: Level II - Audit Inspection
 Action Date: 08/17/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
 Action Stat: Level I - Technical Screen Audit
 Action Date: 06/27/2002
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
 Action Stat: ISSUED
 Action Date: 02/29/2000
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
 Action Stat: ISSUED
 Action Date: 12/06/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
 Action Stat: Completion Statement Received
 Action Date: 10/28/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
 Action Stat: RAO Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103546203

Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0017779
Action Type: AUL
Action Stat: RECPT
Action Date: 10/28/1999
Response Action Outcome: Not reported

Release Tracking Number: 3-0017779
Action Type: AUL
Action Stat: SNAUDI
Action Date: 08/17/2005
Response Action Outcome: Not reported

Release Tracking Number: 3-0018647
Action Type: AUL
Action Stat: RECPT
Action Date: 10/28/1999
Response Action Outcome: A3

Release Tracking Number: 3-0018647
Action Type: AUL
Action Stat: SNAUDI
Action Date: 08/17/2005
Response Action Outcome: A3

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

F30
SSW
1/8-1/4
0.193 mi.
1021 ft.

GEORGE MORE FACILITY FMR
110 BEAVER ST
WALTHAM, MA 02154
Site 3 of 3 in cluster F

SHWS **S100829869**
RELEASE **N/A**
INST CONTROL

Relative:
Lower

SHWS:

Facility ID: 3-0002923
 Release Town: WALTHAM
 Notification Date: 07/15/1990
 Category: NONE
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 10/28/1999
 Phase: PHASE III
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
48 ft.

Chemical:

Chemical: UNKNOWN
 Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: AUDCOM
 Action Stat: NAFNVD
 Action Date: 10/06/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
 Action Stat: Level II - Audit Inspection
 Action Date: 08/17/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
 Action Stat: FLDD1U
 Action Date: 08/17/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
 Action Stat: Level I - Technical Screen Audit
 Action Date: 06/27/2002
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
 Action Stat: Completion Statement Received
 Action Date: 10/28/1999
 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

GEORGE MORE FACILITY FMR (Continued)

S100829869

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 05/23/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/23/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 04/20/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Facility ID: 3-0002923
Primary ID: Not reported
Official City: WALTHAM
Notification: 07/15/1990
Category: NONE
Facility Status: Response Action Outcome
Status Date: 10/28/1999
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 08/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Action Date: 10/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 05/23/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/23/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 04/20/1990

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 11/20/1989

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/06/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 08/17/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 08/17/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/27/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Action Date: 10/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 05/23/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/23/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGE MORE FACILITY FMR (Continued)

S100829869

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 04/20/1990

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 11/20/1989

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0002923
Action Type: AUL
Action Stat: RECPT
Action Date: 10/27/1999
Response Action Outcome: A3

Release Tracking Number: 3-0002923
Action Type: AUL
Action Stat: SNAUDI
Action Date: 08/17/2005
Response Action Outcome: A3

31
SE
1/8-1/4
0.197 mi.
1042 ft.

**LIGHT METAL PLATERS
70 TO 74 CLEMATIS AVE
WALTHAM, MA 02154**

**SHWS S103812182
RELEASE N/A**

**Relative:
Lower**

SHWS:
Facility ID: 3-0016864
Release Town: WALTHAM
Notification Date: 05/27/1998
Category: 120 DY
Associated ID: 3-0000501
Compliance Status: Response Action Outcome Not Required
Status Date: 07/17/1998
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

**Actual:
56 ft.**

Chemical:
Chemical: NICKEL
Quantity: .31 milligrams per liter
Chemical: CADMIUM
Quantity: .52 milligrams per liter
Chemical: TCE
Quantity: 1.2 milligrams per liter
Chemical: LEAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS (Continued)

S103812182

Quantity: .073 milligrams per liter
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 2700 milligrams per kilogram
Chemical: CYANIDE
Quantity: .193 milligrams per liter
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 3300 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 07/17/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS (Continued)

S103812182

Action Type: RNF
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

Release:

Facility ID: 3-0016864
Primary ID: 3-0000501
Official City: WALTHAM
Notification: 05/27/1998
Category: 120 DY
Facility Status: Response Action Outcome Not Required
Status Date: 07/17/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 07/17/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS (Continued)

S103812182

Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

Chemical:

Chemical: NICKEL
Quantity: .31 milligrams per liter
Chemical: CADMIUM
Quantity: .52 milligrams per liter
Chemical: TCE
Quantity: 1.2 milligrams per liter
Chemical: LEAD
Quantity: .073 milligrams per liter
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 2700 milligrams per kilogram
Chemical: CYANIDE
Quantity: .193 milligrams per liter
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 3300 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS (Continued)

S103812182

Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 07/17/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 05/27/1998
Response Action Outcome: Not reported

G32
South
1/8-1/4
0.198 mi.
1043 ft.

GENOME THERAPEUTIC CORP
100 BEAVER ST
WALTHAM, MA 02453
Site 1 of 3 in cluster G

FINDS 1001219890
RCRA-NonGen MAR000010462

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
51 ft.

Registry ID: 110009594457

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.

RCRA-NonGen:

Date form received by agency: 01/26/2005
Facility name: GENOME THERAPEUTIC CORP
Facility address: 100 BEAVER ST
WALTHAM, MA 02453
EPA ID: MAR000010462
Mailing address: 100 BEAVER STREET
ATTN: ALBERT CLEEF
WALTHAM, MA 024530000
Contact: CLEEF ALBERT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENOME THERAPEUTIC CORP (Continued)

1001219890

Contact address: 100 BEAVER ST
WALTHAM, MA 024530000
Contact country: US
Contact telephone: (781) 398-2323
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: GENOME THERAPEUTIC CORP
Owner/operator address: 100 BEAVER ST
WALTHAM, MA 02453
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/06/1995
Owner/Op end date: Not reported

Owner/operator name: GENOME THERAPEUTIC CORP
Owner/operator address: 100 BEAVER ST
WALTHAM, MA 02453
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/06/1995
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 01/11/2005
Facility name: GENOME THERAPEUTIC CORP
Classification: Small Quantity Generator

Date form received by agency: 04/26/1998
Facility name: GENOME THERAPEUTIC CORP
Classification: Small Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENOME THERAPEUTIC CORP (Continued)

1001219890

Violation Status: No violations found

G33
South
1/8-1/4
0.198 mi.
1043 ft.

ANGIO MEDICAL
100 BEAVER STREET
WALTHAM, MA 02453

FINDS 1000258815
RCRA-NonGen MAD982545105

Site 2 of 3 in cluster G

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
51 ft.

Registry ID: 110006813118

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.

RCRA-NonGen:

Date form received by agency: 11/07/1988
Facility name: ANGIO MEDICAL CORP
Facility address: 100 BEAVER ST @ SHRIVER CTR
WALTHAM, MA 02154
EPA ID: MAD982545105
Mailing address: 100 BEAVER ST
WALTHAM, MA 02154
Contact: DENISE PETON
Contact address: 100 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 642-0031
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: EUNICE KENNEDY SHRIVER CORP
Owner/operator address: 100 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGIO MEDICAL (Continued)

1000258815

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

H34
South
1/8-1/4
0.200 mi.
1057 ft.

KANS ENGINEERING & MODEL SHOP
83 BREAVER ST
WALTHAM, MA 02453
Site 1 of 3 in cluster H

FINDS 1000374680
RCRA-NonGen MAD981886476

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
58 ft.

Registry ID: 110006503694

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.

RCRA-NonGen:

Date form received by agency: 02/04/1987
Facility name: KANS ENGINEERING & MODEL SHOP
Facility address: 83 BREAVER ST
WALTHAM, MA 02154
EPA ID: MAD981886476
Contact: MICHAEL KANS
Contact address: 83 BREAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 899-6601
Contact email: Not reported
EPA Region: 01

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KANS ENGINEERING & MODEL SHOP (Continued)

1000374680

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NICK KANS
Owner/operator address: 83 BREAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

G35
South
1/8-1/4
0.201 mi.
1059 ft.

ELECTRO PAINTERS INC
97 BEAVER ST
WALTHAM, MA 02453
Site 3 of 3 in cluster G

FINDS 1000181359
RCRA-NonGen MAD981213002

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
53 ft.

Registry ID: 110006503578

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PAINTERS INC (Continued)

1000181359

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.

RCRA-NonGen:

Date form received by agency: 07/23/1986
Facility name: ELECTRO PAINTERS INC
Facility address: 97 BEAVER ST
WALTHAM, MA 02154
EPA ID: MAD981213002
Contact: JOHN LEE
Contact address: 97 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 894-4000
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ELECTRO PAINTERS INC
Owner/operator address: 97 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PAINTERS INC (Continued)

1000181359

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U239
Waste name: BENZENE, DIMETHYL- (I,T)

Violation Status: No violations found

H36
SSE
1/8-1/4
0.202 mi.
1064 ft.

CERAMEM CORPORATION
12 CLEMATIS AVE
WALTHAM, MA 02453

RCRA-CESQG 1007570531
MAR000511709

Site 2 of 3 in cluster H

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 12/14/2003
Facility name: CERAMEM CORPORATION
Facility address: 12 CLEMATIS AVE
WALTHAM, MA 02453

Actual:
58 ft.

EPA ID: MAR000511709
Contact: GARRY HAACKE
Contact address: 12 CLEMATIS AVE
WALTHAM, MA 02453

Contact country: US
Contact telephone: 7818994495 X27
Contact email: Not reported
EPA Region: 01

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: JOSEPH CAIRA
Owner/operator address: 12 CLEMATIS AVE
WALTHAM, MA 02453

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/14/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CERAMEM CORPORATION (Continued)

1007570531

Owner/Op end date: Not reported

Owner/operator name: CERAMEM CORPORATION
Owner/operator address: 12 CLEMATIS AVE
WALTHAM, MA 02453

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/14/2003
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D009

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CERAMEM CORPORATION (Continued)

1007570531

Waste name: MERCURY

Waste code: D010
 Waste name: SELENIUM

Waste code: D042
 Waste name: 2,4,6-TRICHLOROPHENOL

Waste code: F003
 Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**H37
 SSE
 1/8-1/4
 0.206 mi.
 1089 ft.**

**NO LOCATION AID
 10 CLEMATIS AVE
 WALTHAM, MA
 Site 3 of 3 in cluster H**

**LUST S102085029
 RELEASE N/A**

**Relative:
 Lower**

LUST:
 Facility:
 Facility ID: 3-0010289
Facility Status: Release Action Outcome
 Status Date: 09/19/1994
 Source Type: UST
 Release Town: WALTHAM
 Notification Date: 12/10/1993
 Category: 72 HR
 Associated ID: Not reported
 Phase: Not reported
 Rspns Actn Outcome Class: Not reported
 Oil Or Haz Material: Not reported

**Actual:
 59 ft.**

Chemical:
 Chemical: GASOLINE
 Quantity: 700 parts per million
 Chemical: GASOLINE
 Quantity: 700 parts per million

Location:
 Location Type: COMMERCIAL

Source:
 Source Type: UST

Action:
 Action Type: AUDCOM
 Action Stat: NAFNVD
 Action Date: 07/24/1995
 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)

S102085029

Action Type: C&E
Action Stat: NAFNVD
Action Date: 07/24/1995
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
Action Stat: RAO Statement Received
Action Date: 09/19/1994
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
Action Stat: Fee Received
Action Date: 08/24/1994
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 Stat: REPORT
Action Date: 06/09/1994
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: C&E
Action Stat: NON
Action Date: 05/27/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/24/1994
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 Stat: FOLOFF
Action Date: 05/17/1994
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 Stat: FOLOFF
Action Date: 05/16/1994
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
Action Stat: REPORT
Action Date: 12/10/1993
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 Stat: FOLOFF
Action Date: 12/10/1993

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102085029

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 Stat: Oral Approval of Plan

Action Date: 12/10/1993

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 3-0010289

Primary ID: Not reported

Official City: WALTHAM

Notification: 12/10/1993

Category: 72 HR

Facility Status: Response Action Outcome

Status Date: 09/19/1994

Phase: Not reported

Rspns Actn Outcome Class: Not reported

Oil / Haz Material Type: Not reported

Action:

Action Type: AUDCOM

Action Stat: NAFNVD

Action Date: 07/24/1995

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: C&E

Action Stat: NAFNVD

Action Date: 07/24/1995

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

Action Stat: RAO Statement Received

Action Date: 09/19/1994

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

Action Stat: Fee Received

Action Date: 08/24/1994

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 Stat: REPORT

Action Date: 06/09/1994

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: C&E

Action Stat: NON

Action Date: 05/27/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102085029

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/24/1994
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 Stat: FOLOFF
Action Date: 05/17/1994
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 Stat: FOLOFF
Action Date: 05/16/1994
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
Action Stat: REPORT
Action Date: 12/10/1993
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 Stat: FOLOFF
Action Date: 12/10/1993
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 Stat: Oral Approval of Plan
Action Date: 12/10/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: GASOLINE
Quantity: 700 parts per million
Chemical: GASOLINE
Quantity: 700 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 07/24/1995
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: C&E

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102085029

Action Stat: NAFNVD
Action Date: 07/24/1995
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
Action Stat: RAO Statement Received
Action Date: 09/19/1994
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
Action Stat: Fee Received
Action Date: 08/24/1994
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 Stat: REPORT
Action Date: 06/09/1994
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: C&E
Action Stat: NON
Action Date: 05/27/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/24/1994
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 Stat: FOLOFF
Action Date: 05/17/1994
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 Stat: FOLOFF
Action Date: 05/16/1994
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
Action Stat: REPORT
Action Date: 12/10/1993
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 Stat: FOLOFF
Action Date: 12/10/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102085029

to background or a threat of release has been eliminated.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/10/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

38
South
1/8-1/4
0.207 mi.
1094 ft.

THORNTON ASSOC INC
87 BEAVER ST
WALTHAM, MA 02453

FINDS 1000365495
RCRA-NonGen MAD001040138

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
57 ft.

Registry ID: 110006499994

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.

RCRA-NonGen:

Date form received by agency: 08/20/1982
Facility name: THORNTON ASSOCIATES INC
Facility address: 87 BEAVER ST
WALTHAM, MA 02154
EPA ID: MAD001040138
Contact: RICHARD-A SACCA
Contact address: 87 BEAVER ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 899-1400
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: THORNTON ASSOC INC
Owner/operator address: 87 BEAVER ST
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THORNTON ASSOC INC (Continued)

1000365495

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

39
SW
1/8-1/4
0.209 mi.
1101 ft.

**UNIVERSITY OF MASSACHUSETTS
225-227 BEAVER ST
WALTHAM, MA**

**SHWS S109489929
RELEASE N/A**

**Relative:
Lower**

SHWS:
Facility ID: 3-0028049
Release Town: WALTHAM
Notification Date: 10/06/2008
Category: 120 DY
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 10/06/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

**Actual:
59 ft.**

Chemical:
Chemical: CHROMIUM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF MASSACHUSETTS (Continued)

S109489929

Quantity: 37.5 milligrams per kilogram
Chemical: CADMIUM
Quantity: 9.1 milligrams per kilogram
Chemical: LEAD
Quantity: 1520 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Release:
Facility ID: 3-0028049
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/06/2008
Category: 120 DY
Facility Status: Unclassified Waste Site
Status Date: 10/06/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF MASSACHUSETTS (Continued)

S109489929

Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Chemical:
Chemical: CHROMIUM
Quantity: 37.5 milligrams per kilogram
Chemical: CADMIUM
Quantity: 9.1 milligrams per kilogram
Chemical: LEAD
Quantity: 1520 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

I40
SE
1/8-1/4
0.219 mi.
1156 ft.

LIGHT METAL PLATERS INC
70 CLEMATIS AVE
WALTHAM, MA 02154
Site 1 of 2 in cluster I

RCRA-SQG 1000244181
FINDS MAD001013515
RAATS
MANIFEST
MANIFEST
MANIFEST

Relative:
Lower

RCRA-SQG:
Date form received by agency: 01/14/2003
Facility name: LIGHT METAL PLATERS INC
Facility address: 70 CLEMATIS AVE
WALTHAM, MA 02154
EPA ID: MAD001013515
Contact: SEAN-R DELANEY
Contact address: 70 CLEMATIS AVE

Actual:
54 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 899-8855
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: LIGHT METAL PLATERS INC
Owner/operator address: 70 CLEMATIS AVE
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Owner/operator name: DENEEN MICHAEL PRESIDENT
Owner/operator address: 70 CLEMATIS AVE
WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/05/2002
Facility name: LIGHT METAL PLATERS INC
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Date form received by agency: 02/29/1996
Facility name: LIGHT METAL PLATERS INC
Site name: LIGHT METAL PLATERS INC.
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994
Facility name: LIGHT METAL PLATERS INC
Classification: Large Quantity Generator

Date form received by agency: 02/24/1992
Facility name: LIGHT METAL PLATERS INC
Site name: LIGHT METAL PLATERS INC.
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: LIGHT METAL PLATERS INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/26/1990
Date achieved compliance: 01/22/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/19/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/21/1990
Date achieved compliance: 11/26/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/11/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/21/1990
Date achieved compliance: 07/13/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 08/31/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/26/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/22/1991
Evaluation lead agency: State

Evaluation date: 03/21/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 07/13/1990
Evaluation lead agency: State

Evaluation date: 03/21/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/26/1990
Evaluation lead agency: State

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110000881519

Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CT MANIFEST:

Manifest No: Not reported
Waste Occurrence: Not reported
UNNA: Not reported
Hazard Class: Not reported
US Dot Description: Not reported
No of Containers: Not reported
Container Type: Not reported
Quantity: Not reported
Weight/Volume: Not reported
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Manifest No: Not reported
Waste Occurrence: Not reported
EPA Waste Code: Not reported
Recycled Waste?: Not reported
Date Record Was Last Modified: Not reported
DEO Who Last Modified Record: Not reported
Year: 1996
Manifest ID: MAH466400
TSDf EPA ID: RID980906986
TSDf Name: 21ST CENTURY ENVIRONMENTAL MGMT INC
TSDf Address: 25 GRAYSTONE ST
TSDf City,St,Zip: WARWICK, RI 02886
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 06/12/96
Transporter EPA ID: RID982192627
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: / /
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
Generator EPA ID: MAD001013515
Generator Phone: Not reported
Generator Address: Not reported
Generator City,State,Zip: Not reported
Generator Country: Not reported
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 06/12/96
Date Received: 06/12/96

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Last modified date: 04/26/04
Last modified by: IG
Comments: Not reported

PA MANIFEST:

Manifest Number: PAH298285
Manifest Type: T
Generator Epa Id: MAD001013515
Generator Date: 07/06/06
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD Epa Id: PAD987270725
TSD Date: Not reported
TSD Facility Name: ENVIROTROL INC DARLINGTON FACILITY
TSD Facility Address: 118 PARK ROAD
TSD Facility City: DARLINGTON
TSD Facility State: PA
Facility Telephone: 617-899-8855
Page Number: 1
Line Number: 1
Waste Number: D040
Container Number: 4
Container Type: DM
Waste Quantity: 4
Unit: P
Handling Code: Not reported
Tsp Epa Id: Not reported
Date Tsp Sig: Not reported

Manifest Number: PAH298285
Manifest Type: T
Generator Epa Id: MAD001013515
Generator Date: 07/06/06
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD Epa Id: PAD987270725
TSD Date: Not reported
TSD Facility Name: ENVIROTROL INC DARLINGTON FACILITY
TSD Facility Address: 118 PARK ROAD
TSD Facility City: DARLINGTON
TSD Facility State: PA
Facility Telephone: 617-899-8855
Page Number: 1
Line Number: 1
Waste Number: U228
Container Number: 4
Container Type: DM
Waste Quantity: 4
Unit: P
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

LIGHT METAL PLATERS INC (Continued)

1000244181

Manifest Number: 000455630GBF
Manifest Type: Not reported
Generator Epa Id: MAD001013515
Generator Date: 9/14/2007 0:00:00
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: 617-899-8855
TSD Epa Id: PAD987270725
TSD Date: Not reported
TSD Facility Name: ENVIROTROL INC DARLINGTON FACILITY
TSD Facility Address: 118 PARK ROAD
TSD Facility City: DARLINGTON
TSD Facility State: PA
Facility Telephone: Not reported
Page Number: 1
Line Number: 1
Waste Number: U228
Container Number: 4
Container Type: DM
Waste Quantity: 628.00
Unit: P
Handling Code: Not reported
Tsp Epa Id: Not reported
Date Tsp Sig: Not reported

Manifest Number: 000455630GBF
Manifest Type: Not reported
Generator Epa Id: MAD001013515
Generator Date: 9/14/2007 0:00:00
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: 617-899-8855
TSD Epa Id: PAD987270725
TSD Date: Not reported
TSD Facility Name: ENVIROTROL INC DARLINGTON FACILITY
TSD Facility Address: 118 PARK ROAD
TSD Facility City: DARLINGTON
TSD Facility State: PA
Facility Telephone: Not reported
Page Number: 1
Line Number: 1
Waste Number: D040
Container Number: 4
Container Type: DM
Waste Quantity: 628.00
Unit: P
Handling Code: Not reported
Tsp Epa Id: Not reported
Date Tsp Sig: Not reported

MANIFEST:

GEN Cert Date: 9/8/1998
Transporter Recpt Date: 7/22/2008
Number Of Containers: 4
Container Type: TP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Waste Code1: MA99
Waste Code2: D85
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSD Name: STABLEX
TSD ID: RID980906986
TSD Date: Not reported
Date Imported: 9/8/2008 4:00:35 PM
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: 00490022JJK
Waste Description: NON DOT/NON RCRA REGULATED DEBRIS
Quantity: 500
WT/Vol Units: P
Item Number: 003
Transporter Name: 21ST CENTURY ENV MGT LLC,OF RI
Transporter EPA ID: RID980906986
GEN Cert Date: 7/22/2008
Transporter Recpt Date: 7/22/2008
Transporter 2 Recpt Date: Not reported
TSD Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: 00490022JJK
Waste Description: WASTE CHROMIC ACID SOLUTION
Quantity: 110
WT/Vol Units: G
Item Number: 002
Transporter Name: 21ST CENTURY ENV MGT LLC,OF RI
Transporter EPA ID: RID980906986
GEN Cert Date: 7/22/2008
Transporter Recpt Date: 7/22/2008
Transporter 2 Recpt Date: Not reported
TSD Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: 00490022JJK
Waste Description: WASTE CHROMIC ACID SOLUTION
Quantity: 880
WT/Vol Units: G
Item Number: 001
Transporter Name: 21ST CENTURY ENV MGT LLC,OF RI
Transporter EPA ID: RID980906986
GEN Cert Date: 7/22/2008
Transporter Recpt Date: 7/22/2008
Transporter 2 Recpt Date: Not reported
TSD Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAC248646
Waste Description: TCE
Quantity: 55
WT/Vol Units: G

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Item Number: 2
Transporter Name: GM GANNON
Transporter EPA ID: RID051508034
GEN Cert Date: 4/7/1989
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAH466508
Waste Description: CORR LIQ
Quantity: 800
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 11/21/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAH466594
Waste Description: CORR LIQ
Quantity: 692
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 9/5/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAH466347
Waste Description: CORR LIQ
Quantity: 1054
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 8/16/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAG165010
Waste Description: RQ HW SOLID NOS
Quantity: 3200
WT/Vol Units: P
Item Number: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Transporter Name: JEFFREY CHEMICAL CO INC
Transporter EPA ID: MAD080030356
GEN Cert Date: 2/11/1994
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAC692981
Waste Description: MET HYDROX
Quantity: 4000
WT/Vol Units: P
Item Number: 1
Transporter Name: FRANKLIN
Transporter EPA ID: MAD084814136
GEN Cert Date: 9/19/1990
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAG165049
Waste Description: HW SOL
Quantity: 1500
WT/Vol Units: P
Item Number: 1
Transporter Name: JEFFREY CHEMICAL CO INC
Transporter EPA ID: MAD080030356
GEN Cert Date: 7/16/1993
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAJ186830
Waste Description: CORR LIQ
Quantity: 850
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 12/24/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAJ186878
Waste Description: HYDRO ACID
Quantity: 865
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Transporter EPA ID: RID982192627
GEN Cert Date: 5/12/1997
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAH466529
Waste Description: SILVER
Quantity: 500
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 11/22/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAJ186834
Waste Description: CORR LIQ
Quantity: 1100
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL
Transporter EPA ID: RID982192627
GEN Cert Date: 1/17/1997
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAC248646
Waste Description: PAINT MAT
Quantity: 55
WT/Vol Units: G
Item Number: 1
Transporter Name: GM GANNON
Transporter EPA ID: RID051508034
GEN Cert Date: 4/7/1989
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAK012851
Waste Description: SILVER DRAGOUT
Quantity: 20
WT/Vol Units: G
Item Number: 14294
Transporter Name: BECHEM TRANSPORT, INC.
Transporter EPA ID: CTD982191942

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

GEN Cert Date: 9/8/1998
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAH466536
Waste Description: CHROMIC ACID
Quantity: 820
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 10/31/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: RIH0001431
Waste Description: CYANIDE
Quantity: 15
WT/Vol Units: G
Item Number: 1
Transporter Name: Not reported
Transporter EPA ID: RID001200252
GEN Cert Date: 9/26/1997
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MA466519
Waste Description: METAL HYDROX
Quantity: 2000
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 12/3/1996
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

Manifest Docket Number: MAJH466565
Waste Description: SILVER
Quantity: 500
WT/Vol Units: G
Item Number: 1
Transporter Name: LINCOLN ENVIRONMENTAL INC
Transporter EPA ID: RID982192627
GEN Cert Date: 10/4/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000244181

Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: MAD001013515
Transporter 2 ID: Not reported

[Click this hyperlink](#) while viewing on your computer to access 7 additional RI MANIFEST: record(s) in the EDR Site Report.

J41
SW
1/8-1/4
0.219 mi.
1157 ft.

U-MASS WALTHAM
240 BEAVER ST
WALTHAM, MA 02154
Site 1 of 2 in cluster J

SHWS **S101040172**
LUST **N/A**
RELEASE
SPILLS

Relative:
Lower

SHWS:
Facility ID: 3-0028048
Release Town: WALTHAM
Notification Date: 10/06/2008
Category: 120 DY
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 10/06/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
59 ft.

Chemical:
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 1510 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 3150 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 5.5 milligrams per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Action Date: 10/06/2008
Response Action Outcome: Not reported

Facility ID: 3-0028050
Release Town: WALTHAM
Notification Date: 10/06/2008
Category: 120 DY
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 10/06/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: CHROMIUM
Quantity: 92.8 milligrams per kilogram
Chemical: CADMIUM
Quantity: 40.9 milligrams per kilogram
Chemical: LEAD
Quantity: 3770 milligrams per kilogram
Chemical: ARSENIC
Quantity: 23.2 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

LUST:

Facility:
Facility ID: 3-0015883
Facility Status: Release Action Outcome
Status Date: 12/26/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Source Type: UST
Release Town: WALTHAM
Notification Date: 01/06/1998
Category: TWO HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: GASOLINE
Quantity: 93 gallons
Chemical: GASOLINE
Quantity: 139 parts per million

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/09/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Action Stat: Status Report Received
Action Date: 09/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/10/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 02/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 01/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0015883
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/06/1998
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 12/26/2001
Phase: PHASE II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/09/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/10/1998
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

U-MASS WALTHAM (Continued)

S101040172

Action Type: RNF
Action Stat: REPORT
Action Date: 02/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 01/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 93 gallons
Chemical: GASOLINE
Quantity: 139 parts per million

Location:
Location Type: STATE

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 01/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 01/06/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 01/06/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/09/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/23/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/21/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/21/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/10/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 02/23/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/13/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 01/07/1998

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

U-MASS WALTHAM (Continued)

S101040172

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/06/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0028048
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/06/2008
Category: 120 DY
Facility Status: Unclassified Waste Site
Status Date: 10/06/2008
Phase: Not reported
Rspsn Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Chemical:

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 1510 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 3150 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 5.5 milligrams per liter

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Action:

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Facility ID: 3-0028050
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/06/2008
Category: 120 DY
Facility Status: Unclassified Waste Site
Status Date: 10/06/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Chemical:

Chemical: CHROMIUM
Quantity: 92.8 milligrams per kilogram

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

U-MASS WALTHAM (Continued)

S101040172

Chemical: CADMIUM
Quantity: 40.9 milligrams per kilogram
Chemical: LEAD
Quantity: 3770 milligrams per kilogram
Chemical: ARSENIC
Quantity: 23.2 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/28/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2008
Response Action Outcome: Not reported

MA Spills:

Facility ID: 0000
Staff Lead: GORRASI, M
Last Entered: 19930723
Spill Date: Not reported
Report Date: 19911119
Case Closed: YES
Virgin Waste: VIRGIN
Env Impact: SOIL
Material: GASOLINE
Qty Reported: UNKNOWN
Qty Reported: -----
CAS No: Not reported
Source: U.S.T.
Incident: LEAK
Cleanup Type: ---
Referral: NO
Report Prep: Not reported
Notifier: YUNG MORGAN
Notif Tel: Not reported
Days/Close: 0

Spill ID: N91-1626
Date Entered: 19930723
First Response: 19911119
Spill Time: Not reported
Report Time: 12:10PM
Mat Type: PETROLEUM
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: UNKNOWN
Qty Actual: -----
PCB Lev (ppm): NONE
Other Source: Not reported
Other Incdnt: Not reported
Contractor: NOT USED
LUST Elig: ---
Category: 2

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

J42
SW
1/8-1/4
0.219 mi.
1157 ft.

UMASS EASTERN EXTENSION CENTER
240 BEAVER ST
WALTHAM, MA 02452

Site 2 of 2 in cluster J

UST **U003400405**
N/A

Relative:
Lower

UST:
Facility ID: 954

Facility:
Owner Id: 7247
Owner: UMASS AMHERST
Owner Address: PHYSICAL PLANT
Owner City,St,Zip: AMHERST, MA 01003
Telephone: Not reported
Description: State College
Fire Dept. ID: 17308
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Actual:
59 ft.

Tank ID: 1
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Gasoline

I43
SE
1/8-1/4
0.227 mi.
1200 ft.

INDUSTRIAL PROPERTY
70-74 CLEMATIS AVE
WALTHAM, MA 02154

Site 2 of 2 in cluster I

SHWS **S102618755**
RELEASE **N/A**
LAST

Relative:
Lower

SHWS:
Facility ID: 3-0000501
Release Town: WALTHAM
Notification Date: 01/15/1987
Category: NONE
Associated ID: 3-0000501
Compliance Status: Remedy Operation Status
Status Date: 07/13/2006
Phase: PHASE V
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
54 ft.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Location Type: INDUSTRIAL

Source:

Source Type: AST
Source Type: UNKNOWN
Source Type: RAILROAD

Action:

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/03/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/21/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/15/2008
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	01/15/2008
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	ROSSTR
Action Date:	07/10/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	07/10/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINI
Action Date:	01/09/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	01/09/2007
Response Action Outcome:	Not reported
Action Type:	AUDCOM
Action Stat:	NAFNVD
Action Date:	10/30/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Level II - Audit Inspection
Action Date:	10/19/2006
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FLDRAN
Action Date:	10/19/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	07/13/2006
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Completion Statement Received
Action Date:	05/17/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Extension
Action Date:	05/17/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Extension

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 08/27/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/14/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

Release:

Facility ID: 3-0000501
Primary ID: 3-0000501
Official City: WALTHAM
Notification: 01/15/1987
Category: NONE
Facility Status: REMOPS
Status Date: 07/13/2006
Phase: PHASE V
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/03/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/21/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/17/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/09/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/09/2007
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/30/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 10/19/2006
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 07/13/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 08/27/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/14/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: AST
Source Type: UNKNOWN
Source Type: RAILROAD

Action:
Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Stat: Level I - Technical Screen Audit
Action Date: 11/03/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/21/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/09/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/09/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/30/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 07/13/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 08/27/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/14/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

LAST:

Facility ID: 3-0000501
Source Type: AST
Release Town: WALTHAM
Notification Date: 01/15/1987
Category: NONE
Associated ID: 3-0000501
Facility Status: Remedy Operation Status
Status Date: 07/13/2006
Phase: PHASE V
Rspns Actn Outcome Class: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: AST
Source Type: UNKNOWN
Source Type: RAILROAD

Action:
Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 12/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/03/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/21/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/15/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/15/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/10/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/09/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/09/2007
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 10/30/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 07/13/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/17/2005
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 05/25/2004
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/04/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 08/27/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/31/2000
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 08/02/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/14/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 07/24/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INDUSTRIAL PROPERTY (Continued)

S102618755

Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/16/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

44
SE
1/8-1/4
0.229 mi.
1210 ft.

CERAMICS GRINDING CO INC
74 CLEMATIS AVE
WALTHAM, MA 02453

FINDS 1000149709
RCRA-NonGen MAD001006741

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
54 ft.

Registry ID: 110006499805

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.

RCRA-NonGen:

Date form received by agency: 04/01/1987
Facility name: CERAMICS GRINDING CO INC
Facility address: 74 CLEMATIS AVE
WALTHAM, MA 02154
EPA ID: MAD001006741
Contact: EUGENE BOURQUE
Contact address: 74 CLEMATIS AVE
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 899-5200
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: LIGHT METAL PLATERS INC
Owner/operator address: 74 CLEMATIS AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CERAMICS GRINDING CO INC (Continued)

1000149709

WALTHAM, MA 02154
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

45
NW
1/8-1/4
0.236 mi.
1244 ft.

**FMR HEATING PLANT SOUTH OF
333 FOREST ST
WALTHAM, MA 02154**

**SHWS S106132248
RELEASE N/A
INST CONTROL**

Relative:
Higher

SHWS:
Facility ID: 3-0022303
Release Town: WALTHAM
Notification Date: 11/13/2002
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 01/31/2008
Phase: PHASE II
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
206 ft.

Chemical:
Chemical: ARSENIC
Quantity: 34.8 milligrams per kilogram
Chemical: ASBESTOS
Quantity: 1 pounds

Location:
Location Type: FEDERAL

Source:
Source Type: ASBESTOS

Action:
Action Type: Activity and Use Limitation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Action Stat: Transmittal Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/03/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/11/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 09/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 09/04/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/17/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/09/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/13/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Facility ID: 3-0022303
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/13/2002
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/31/2008
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/03/2007
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

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/11/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 09/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 09/04/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NON
Action Date: 01/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/17/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/09/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/13/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical: ARSENIC
Quantity: 34.8 milligrams per kilogram
Chemical: ASBESTOS
Quantity: 1 pounds

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Location:

Location Type: FEDERAL

Source:

Source Type: ASBESTOS

Action:

Action Type: Activity and Use Limitation

Action Stat: Transmittal Received

Action Date: 01/31/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 01/31/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Completion Statement Received

Action Date: 01/31/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 10/03/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 09/11/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification

Action Stat: Tier 2 Transfer

Action Date: 09/05/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 09/04/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E

Action Stat: NON

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Action Date: 01/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/17/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FMR HEATING PLANT SOUTH OF (Continued)

S106132248

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/09/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/13/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0022303
Action Type: AUL
Action Stat: RECPT
Action Date: 01/31/2008
Response Action Outcome: A3

**K46
SE
1/8-1/4
0.249 mi.
1315 ft.**

**LIGHT METAL PLATERS INC
96 CLEMATIS AVE
WALTHAM, MA 02154**

**RCRA-NonGen 1000864690
MAD985290303**

Site 1 of 2 in cluster K

**Relative:
Lower**

RCRA-NonGen:
Date form received by agency: 02/20/2003
Facility name: LIGHT METAL PLATERS INC
Facility address: 96 CLEMATIS AVE
WALTHAM, MA 02154
EPA ID: MAD985290303
Mailing address: PO BOX 150
WALTHAM, MA 021540150
Contact: SEAN DELANEY
Contact address: PO BOX 150
WALTHAM, MA 02254

**Actual:
55 ft.**

Contact country: US
Contact telephone: (617) 899-8855
Contact email: Not reported
EPA Region: 01
Land type: Municipal
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000864690

Owner/Operator Summary:

Owner/operator name: ARTHUR DENEEN JR
Owner/operator address: PO BOX 150
WALTHAM, MA 02254
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/28/1993
Facility name: LIGHT METAL PLATERS INC
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000864690

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SR - 685(4)
Area of violation: Generators - Pre-transport
Date violation determined: 08/07/2000
Date achieved compliance: 10/04/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 08/07/2000
Date achieved compliance: 10/04/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 685(1)
Area of violation: Generators - Pre-transport
Date violation determined: 08/07/2000
Date achieved compliance: 10/04/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LIGHT METAL PLATERS INC (Continued)

1000864690

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 682
Area of violation: State Statute or Regulation
Date violation determined: 08/07/2000
Date achieved compliance: 10/04/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 08/07/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 10/04/2000
Evaluation lead agency: State

Evaluation date: 08/07/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 10/04/2000
Evaluation lead agency: State

K47
SE
1/4-1/2
0.252 mi.
1333 ft.

MANHOLE HALFWAT DOWN DRIVEWAY
102 CLEMATIS AVE
WALTHAM, MA 02154
Site 2 of 2 in cluster K

SHWS **S102087308**
RELEASE **N/A**
LAST

Relative:
Lower

SHWS:
Facility ID: 3-0013361
Release Town: WALTHAM
Notification Date: 01/24/1996
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 03/05/1996
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: TPH
Quantity: 10 gallons

Location:
Location Type: MUNICIPAL
Location Type: WATERBODY
Location Type: INDUSTRIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

Source:
Source Type: UNKNOWN
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
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 Stat: REPORT
Action Date: 03/05/1996
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 Stat: Completion Statement Received
Action Date: 03/05/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/25/1996
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 Stat: FOLFLD
Action Date: 01/25/1996
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
Action Stat: REPORT
Action Date: 01/24/1996
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 Stat: Oral Approval of Plan
Action Date: 01/24/1996
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 Stat: FOLOFF
Action Date: 01/24/1996
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 Stat: FOLFLD
Action Date: 01/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

to background or a threat of release has been eliminated.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 01/22/1996
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
Action Stat: REPORT
Action Date: 01/22/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 3-0013361
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/24/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/05/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
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 Stat: REPORT
Action Date: 03/05/1996
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 Stat: Completion Statement Received
Action Date: 03/05/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/25/1996
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 Stat: FOLFLD
Action Date: 01/25/1996
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

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

Action Type: Release
Action Stat: REPORT
Action Date: 01/24/1996
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 Stat: Oral Approval of Plan
Action Date: 01/24/1996
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 Stat: FOLOFF
Action Date: 01/24/1996
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 Stat: FOLFLD
Action Date: 01/23/1996
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 Stat: IRA Assessment Only
Action Date: 01/22/1996
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
Action Stat: REPORT
Action Date: 01/22/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: TPH
Quantity: 10 gallons

Location:
Location Type: MUNICIPAL
Location Type: WATERBODY
Location Type: INDUSTRIAL

Source:
Source Type: UNKNOWN
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
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 Stat: REPORT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

Action Date: 03/05/1996
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 Stat: Completion Statement Received
Action Date: 03/05/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/25/1996
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 Stat: FOLFLD
Action Date: 01/25/1996
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
Action Stat: REPORT
Action Date: 01/24/1996
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 Stat: Oral Approval of Plan
Action Date: 01/24/1996
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 Stat: FOLOFF
Action Date: 01/24/1996
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 Stat: FOLFLD
Action Date: 01/23/1996
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 Stat: IRA Assessment Only
Action Date: 01/22/1996
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
Action Stat: REPORT
Action Date: 01/22/1996
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

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

LAST:

Facility ID: 3-0013361
Source Type: AST
Release Town: WALTHAM
Notification Date: 01/24/1996
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 03/05/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: TPH
Quantity: 10 gallons

Location:

Location Type: MUNICIPAL
Location Type: WATERBODY
Location Type: INDUSTRIAL

Source:

Source Type: UNKNOWN
Source Type: AST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/05/1996
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 Stat: REPORT
Action Date: 03/05/1996
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 Stat: Completion Statement Received
Action Date: 03/05/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/25/1996
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 Stat: FOLFLD
Action Date: 01/25/1996
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
Action Stat: REPORT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANHOLE HALFWAT DOWN DRIVEWAY (Continued)

S102087308

Action Date: 01/24/1996
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 Stat: Oral Approval of Plan
Action Date: 01/24/1996
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 Stat: FOLOFF
Action Date: 01/24/1996
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 Stat: FOLFLD
Action Date: 01/23/1996
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 Stat: IRA Assessment Only
Action Date: 01/22/1996
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
Action Stat: REPORT
Action Date: 01/22/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

L48
NW
1/4-1/2
0.271 mi.
1429 ft.

475 TRAPELLO RD.
WALTHAM, MA
Site 1 of 3 in cluster L

SHWS S101018200
RELEASE N/A
SPILLS

Relative:
Lower

SHWS:
Facility ID: 3-0018280
Release Town: WALTHAM
Notification Date: 05/07/1999
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 03/07/2000
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
193 ft.

Chemical:
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 840 milligrams per liter
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 480 milligrams per liter

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101018200

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 520 milligrams per liter
Chemical: LEAD
Quantity: .09 milligrams per liter
Chemical: PCB
Quantity: .004 milligrams per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/07/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/02/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Facility ID: 3-0018280
Primary ID: Not reported
Official City: WALTHAM
Notification: 05/07/1999
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 03/07/2000
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101018200

Action Stat: Fee Received
Action Date: 03/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/07/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/02/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 840 milligrams per liter
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 480 milligrams per liter
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 520 milligrams per liter
Chemical: LEAD
Quantity: .09 milligrams per liter
Chemical: PCB
Quantity: .004 milligrams per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/07/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101018200

Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/02/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/07/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

MA Spills:

Facility ID:	0000	Spill ID:	N80-5029
Staff Lead:	CASHINS	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19800306	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	100 GAL	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	N81-5049
Staff Lead:	DORANT	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19810224	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	<100 GAL	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101018200

Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		
Facility ID:	0000	Spill ID:	N88-0226
Staff Lead:	OTHER	Date Entered:	19880305
Last Entered:	19930927	First Response:	19880217
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19880217	Report Time:	02:00PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	TRANSFORMER OIL	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	TRANSFORMER	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		
Facility ID:	0000	Spill ID:	N85-0525
Staff Lead:	PENTA	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19850715	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	30 GAL.	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		
Facility ID:	0000	Spill ID:	N88-1828
Staff Lead:	BRADLEY, R	Date Entered:	19881201
Last Entered:	19881201	First Response:	19881121
Spill Date:	19881119	Spill Time:	Not reported
Report Date:	19881121	Report Time:	09:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101018200

Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	1-10	Qty Actual:	1-10
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	OVERFILL	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	25		
Facility ID:	0000	Spill ID:	N89-0299
Staff Lead:	GORRASI, M	Date Entered:	19890405
Last Entered:	19900718	First Response:	19890306
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19890306	Report Time:	03:20PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	SHEEN	Qty Actual:	SHEEN
Qty Reported:	_____	Qty Actual:	_____
CAS No:	Not reported	PCB Lev (ppm):	_____
Source:	_____	Other Source:	Not reported
Incident:	_____	Other Incdnt:	Not reported
Cleanup Type:	_____	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	-470		
Facility ID:	0000	Spill ID:	N88-2003
Staff Lead:	MACAFEE, K	Date Entered:	19890110
Last Entered:	19900718	First Response:	19881220
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19881220	Report Time:	Not reported
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	DRUMS	Qty Actual:	DRUMS
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	DRUM	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	-297		

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

L49 **METROPOLITAN STATE COLLEGE**
NW **475 TRAPELO RD**
1/4-1/2 **WALTHAM, MA 02154**
0.271 mi.
1429 ft. **Site 2 of 3 in cluster L**

SHWS **S101025776**
RELEASE **N/A**

Relative:
Lower

SHWS:

Facility ID: 3-0023296
 Release Town: WALTHAM
 Notification Date: 10/16/2003
 Category: 120 DY
 Associated ID: Not reported

Actual:
193 ft.

Compliance Status:

Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Status Date: 03/29/2006
 Phase: PHASE II
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Chemical:

Chemical: ZINC
 Quantity: 13 milligrams per liter
 Chemical: LEAD
 Quantity: 1600 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: C&E
 Action Stat: NON
 Action Date: 06/13/2008
 Response Action Outcome: Not reported

Action Type: Phase II
 Action Stat: Scope of Work Received
 Action Date: 05/22/2006
 Response Action Outcome: Not reported

Action Type: Tier Classification
 Action Stat: Legal Notice Published
 Action Date: 03/31/2006
 Response Action Outcome: Not reported

Action Type: Tier Classification
 Action Stat: Transmittal Received
 Action Date: 03/29/2006
 Response Action Outcome: Not reported

Action Type: Phase I
 Action Stat: Completion Statement Received
 Action Date: 03/29/2006
 Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE COLLEGE (Continued)

S101025776

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/11/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/06/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/29/2003
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

Release:
Facility ID: 3-0023296
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/16/2003
Category: 120 DY
Facility Status: TIERII
Status Date: 03/29/2006
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: C&E
Action Stat: NON
Action Date: 06/13/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE COLLEGE (Continued)

S101025776

Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/22/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/11/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/06/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/29/2003
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE COLLEGE (Continued)

S101025776

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

Chemical:
Chemical: ZINC
Quantity: 13 milligrams per liter
Chemical: LEAD
Quantity: 1600 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: C&E
Action Stat: NON
Action Date: 06/13/2008
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/22/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/29/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/11/2005
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE COLLEGE (Continued)

S101025776

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/06/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/29/2003
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/2003
Response Action Outcome: Not reported

**L50
NW
1/4-1/2
0.271 mi.
1429 ft.**

**METROPOLITAN STATE HOSPITAL
475 TRAPELO ROAD
WALTHAM, MA 02154
Site 3 of 3 in cluster L**

**LUST S101025168
RELEASE N/A
SPILLS
INST CONTROL**

**Relative:
Lower**

LUST:

**Actual:
193 ft.**

Facility:

Facility ID: 3-0002787
Facility Status: Release Action Outcome
Status Date: 01/10/2005
Source Type: UST
Release Town: WALTHAM
Notification Date: 01/15/1991
Category: NONE
Associated ID: Not reported
Phase: PHASE IV
Rspsn Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: ASBESTOS
Quantity: Not reported

Location:

Location Type: POWERPLANT

Source:

Source Type: UST

Action:

Action Type: AUDCOM
Action Stat: NAFNVD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Action Date: 07/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/04/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 09/23/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 02/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/29/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/03/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/03/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/14/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1991

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

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Facility ID: 3-0002787
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/15/1991
Category: NONE
Facility Status: Response Action Outcome
Status Date: 01/10/2005
Phase: PHASE IV
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 07/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/04/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 09/23/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 02/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: ASBESTOS
Quantity: Not reported

Location:
Location Type: POWERPLANT

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 07/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/08/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/04/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 09/23/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 02/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 07/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 08/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 08/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

MA Spills:

Facility ID:	3-2787	Spill ID:	N88-1961
Staff Lead:	MACAFEE, K	Date Entered:	19890109
Last Entered:	19940920	First Response:	19881214
Spill Date:	19881214	Spill Time:	04:00AM
Report Date:	19881214	Report Time:	10:15AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	11-50	Qty Actual:	11-50
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	-----	Other Source:	Not reported
Incident:	SPILL	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Facility ID: 3-2787
Staff Lead: MACAFEE, K
Last Entered: 19931229
Spill Date: Not reported
Report Date: 19890908
Case Closed: YES
Virgin Waste: WASTE
Env Impact: SOIL
Material: #6 FUEL OIL
Qty Reported: 1001-5000
Qty Reported: GALLONS
CAS No: Not reported
Source: -----
Incident: -----
Cleanup Type: SC
Referral: SA
Report Prep: Not reported
Notifier: METRO STATE HOSPITAL
Notif Tel: Not reported
Days/Close: 0

Spill ID: N89-1515
Date Entered: 19891114
First Response: 19890908
Spill Time: Not reported
Report Time: 01:15PM
Mat Type: PETROLEUM
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: 1001-5000
Qty Actual: GALLONS
PCB Lev (ppm): NONE
Other Source: Not reported
Other Incdnt: Not reported
Contractor: CLEAN HARBORS
LUST Elig: YES
Category: Not reported

Facility ID: 3-2787
Staff Lead: MACAFEE, K
Last Entered: 19900627
Spill Date: Not reported
Report Date: 19890908
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: Not reported
Qty Reported: Not reported
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: SA
Report Prep: Not reported
Notifier: METRO STATE HOSPITAL
Notif Tel: Not reported
Days/Close: 0

Spill ID: N89-1515
Date Entered: 19900627
First Response: 19900627
Spill Time: Not reported
Report Time: 01:15PM
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

INST CONTROL:

Release Tracking Number: 3-0002787
Action Type: AUL
Action Stat: RECPT
Action Date: 10/04/2004
Response Action Outcome: A3

Release Tracking Number: 3-0002787
Action Type: AUL
Action Stat: SNAUDI
Action Date: 07/08/2008
Response Action Outcome: A3

Release Tracking Number: 3-0002787
Action Type: AUL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METROPOLITAN STATE HOSPITAL (Continued)

S101025168

Action Stat: LEGNOT
Action Date: 09/23/2004
Response Action Outcome: A3

M51
WSW
1/4-1/2
0.319 mi.
1685 ft.
BETWEEN BLDG 148 AND 148A
175 FOREST ST
WALTHAM, MA 02452
Site 1 of 2 in cluster M

SHWS **S105735928**
RELEASE **N/A**

Relative:
Lower

SHWS:
Facility ID: 3-0022284
Release Town: WALTHAM
Notification Date: 11/06/2002
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 08/27/2003
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
193 ft.

Chemical:
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 5600 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 9100 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 05/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 05/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BETWEEN BLDG 148 AND 148A (Continued)

S105735928

Action Stat: ISSUED
Action Date: 12/03/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0022285
Release Town: WALTHAM
Notification Date: 11/06/2002
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/27/2003
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: 4,4'-DDT
Quantity: 110 micrograms per gallon
Chemical: 4,4'-DDE
Quantity: 29990 micrograms per gallon
Chemical: 4,4'-DDT
Quantity: 1680 micrograms per gallon

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/06/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BETWEEN BLDG 148 AND 148A (Continued)

S105735928

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0022284
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/06/2002
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 08/27/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 05/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 05/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/03/2002
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

BETWEEN BLDG 148 AND 148A (Continued)

S105735928

reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 5600 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 9100 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 05/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 05/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/03/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BETWEEN BLDG 148 AND 148A (Continued)

S105735928

Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0022285
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/06/2002
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 08/27/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: 4,4'-DDT
Quantity: 110 micrograms per gallon

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BETWEEN BLDG 148 AND 148A (Continued)

S105735928

Chemical: 4,4'-DDE
 Quantity: 29990 micrograms per gallon
 Chemical: 4,4'-DDT
 Quantity: 1680 micrograms per gallon

Location:
 Location Type: Not reported

Source:
 Source Type: Not reported

Action:
 Action Type: Response Action Outcome
 Action Stat: Fee Received
 Action Date: 09/02/2003
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
 Action Stat: RAO Statement Received
 Action Date: 08/27/2003
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
 Action Stat: ISSUED
 Action Date: 12/06/2002
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
 Action Stat: REPORT
 Action Date: 11/06/2002
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
 Action Stat: REPORT
 Action Date: 11/06/2002
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

M52 **BENTLEY COLLEGE**
WSW **175 FOREST ST**
1/4-1/2 **WALTHAM, MA 02154**
0.319 mi.
1685 ft. **Site 2 of 2 in cluster M**

SHWS **1000521130**
RELEASE **N/A**
SPILLS

Relative: **SHWS:**
Lower Facility ID: 3-0004230
 Release Town: WALTHAM
Actual: Notification Date: 10/01/1993
193 ft. Category: NONE
 Associated ID: Not reported
Compliance Status: **Not a Disposal Site (DEP)**
 Status Date: 06/19/1996
 Phase: Not reported
 Response Action Outcome Class: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTLEY COLLEGE (Continued)

1000521130

Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: TREGS
Action Stat: DEPND5
Action Date: 06/19/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/01/1993
Response Action Outcome: Not reported

Release:
Facility ID: 3-0004230
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/01/1993
Category: NONE
Facility Status: DEPND5
Status Date: 06/19/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: TREGS
Action Stat: DEPND5
Action Date: 06/19/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/01/1993
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: TREGS
Action Stat: DEPND5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTLEY COLLEGE (Continued)

1000521130

Action Date: 06/19/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/01/1993
Response Action Outcome: Not reported

MA Spills:

Facility ID:	3-4230	Spill ID:	N91-1422
Staff Lead:	BRADLEY, R	Date Entered:	19920124
Last Entered:	19930816	First Response:	19911010
Spill Date:	19911009	Spill Time:	Not reported
Report Date:	19911010	Report Time:	08:45AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	-----	Qty Actual:	-----
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	2
Notifier:	G MASTRO		
Notif Tel:	Not reported		
Days/Close:	1		

53
SSE
1/4-1/2
0.320 mi.
1691 ft.

POLE #31
264 BEAL ST
WALTHAM, MA

SHWS **S102085696**
RELEASE **N/A**

Relative:
Lower

SHWS:

Facility ID: 3-0011166
Release Town: WALTHAM
Notification Date: 06/17/1994
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 08/04/1994
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PCB-CONTAMINATED MATERIAL=>500 ppm
Quantity: 15 gallons
Chemical: UNKNOWN CHEMICAL OF TYPE - OIL
Quantity: Not reported
Chemical: 1,1'-BIPHENYL, CHLORO-DERIVS.
Quantity: 94 milligrams per liter

Location:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLE #31 (Continued)

S102085696

Location Type: ROADWAY

Source:
Source Type: TRANSFORM

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/1994
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 Stat: REPORT
Action Date: 08/04/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/11/1994
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
Action Stat: REPORT
Action Date: 06/22/1994
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 Stat: FOLFLD
Action Date: 06/22/1994
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 Stat: Oral Approval of Plan
Action Date: 06/21/1994
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
Action Stat: REPORT
Action Date: 06/21/1994
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 Stat: FOLOFF
Action Date: 06/20/1994
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 Stat: Oral Approval of Plan
Action Date: 06/17/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLE #31 (Continued)

S102085696

to background or a threat of release has been eliminated.

Action Type: Release
Action Stat: REPORT
Action Date: 06/17/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 3-0011166
Primary ID: Not reported
Official City: WALTHAM
Notification: 06/17/1994
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 08/04/1994
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/1994
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 Stat: REPORT
Action Date: 08/04/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/11/1994
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
Action Stat: REPORT
Action Date: 06/22/1994
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 Stat: FOLFLD
Action Date: 06/22/1994
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 Stat: Oral Approval of Plan
Action Date: 06/21/1994
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

POLE #31 (Continued)

S102085696

Action Type: Release
Action Stat: REPORT
Action Date: 06/21/1994
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 Stat: FOLOFF
Action Date: 06/20/1994
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 Stat: Oral Approval of Plan
Action Date: 06/17/1994
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
Action Stat: REPORT
Action Date: 06/17/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: PCB-CONTAMINATED MATERIAL=>500 ppm
Quantity: 15 gallons
Chemical: UNKNOWN CHEMICAL OF TYPE - OIL
Quantity: Not reported
Chemical: 1,1'-BIPHENYL, CHLORO-DERIVS.
Quantity: 94 milligrams per liter

Location:
Location Type: ROADWAY

Source:
Source Type: TRANSFORM

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/04/1994
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 Stat: REPORT
Action Date: 08/04/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/11/1994
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLE #31 (Continued)

S102085696

Action Stat: REPORT
Action Date: 06/22/1994
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 Stat: FOLFLD
Action Date: 06/22/1994
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 Stat: Oral Approval of Plan
Action Date: 06/21/1994
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
Action Stat: REPORT
Action Date: 06/21/1994
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 Stat: FOLOFF
Action Date: 06/20/1994
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 Stat: Oral Approval of Plan
Action Date: 06/17/1994
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
Action Stat: REPORT
Action Date: 06/17/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**N54
ENE
1/4-1/2
0.373 mi.
1969 ft.**

**NO LOCATION AID
115 MILL ST
BELMONT, MA 02478
Site 1 of 3 in cluster N**

**SHWS S104941951
RELEASE N/A**

**Relative:
Lower**

SHWS:
Facility ID: 3-0020406
Release Town: BELMONT
Notification Date: 02/19/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 07/22/2004
Phase: PHASE III
Response Action Outcome Class: Not reported

**Actual:
156 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104941951

Oil Or Haz Material: Not reported

Chemical:
Chemical: HEATING OIL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: 11 gallons

Location:
Location Type: HOSPITAL
Location Type: COMMERCIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/04/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Legal Notice Published
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104941951

Action Stat: Scope of Work Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/17/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/30/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 02/19/2001
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)

S104941951

reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 02/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0020406
Primary ID: Not reported
Official City: BELMONT
Notification: 02/19/2001
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 07/22/2004
Phase: PHASE III
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/04/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Legal Notice Published
Action Date: 03/05/2002
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)

S104941951

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/17/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/30/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/14/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104941951

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/21/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: HEATING OIL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: 11 gallons

Location:
Location Type: HOSPITAL
Location Type: COMMERCIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/22/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/04/2004
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)

S104941951

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Legal Notice Published
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 02/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/06/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/17/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104941951

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/30/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/14/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 02/21/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 02/19/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

N55 **MCLEAN HOSPITAL**
ENE **115 MILL STREET**
1/4-1/2 **BELMONT, MA 02478**
0.373 mi.
1969 ft. **Site 2 of 3 in cluster N**

Relative:
Lower

Actual:
156 ft.

RCRA-SQG:
Date form received by agency: 04/29/2004
Facility name: MCLEAN HOSPITAL CORP
Site name: MCLEAN HOSPITAL
Facility address: 115 MILL ST
BELMONT, MA 02478
EPA ID: MAD046514535
Mailing address: MILL STREET

RCRA-SQG **1000200097**
SHWS **MAD046514535**
FINDS
LUST
RELEASE
UST
SPILLS
MANIFEST
MANIFEST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

BELMONT, MA 02478
Contact: ANDREW HEALY
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (617) 855-2623
Contact email: HEALYA@MCLEANPO.MCLEAN.ORG
EPA Region: 01
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: MCLEAN HOSPITAL
Owner/operator address: 115 MILL ST
BELMONT, MA 02178
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Owner/operator name: MCLEAN HOSPITAL CORPORATION
Owner/operator address: MILL STREET
BELMONT, MA 02478
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1811
Owner/Op end date: Not reported

Owner/operator name: DR. BRUCE COHEN, M.D., PHD
Owner/operator address: MILL STREET
BELMONT, MA 02478
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/1997
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Yes
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

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MCLEAN HOSPITAL (Continued)

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Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 04/29/2004
Facility name: MCLEAN HOSPITAL CORP
Classification: Small Quantity Generator

Date form received by agency: 06/24/1983
Facility name: MCLEAN HOSPITAL CORP
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

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NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D007
Waste name: CHROMIUM

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D022
Waste name: CHLOROFORM

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U007
Waste name: ACRYLAMIDE

Waste code: U122
Waste name: FORMALDEHYDE

Waste code: U188
Waste name: PHENOL

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Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BE WASTE GUNPOWDER.

Waste code: D007
Waste name: CHROMIUM

Waste code: D009
Waste name: MERCURY

Facility Has Received Notices of Violations:

Regulation violated: SR - 253(1)(h)(4a thru 4c)
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(k)
Area of violation: Generators - General
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

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Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 253(5)(b)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 351(9)(c)6.
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 683
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

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Paid penalty amount: Not reported

Regulation violated: SR - 683
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(f)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(g)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(g)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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Regulation violated: SR - 351(9)(c)6.
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 253(1)(h)(4a thru 4c)
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 253(5)(b)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(f)
Area of violation: State Statute or Regulation
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(k)

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Area of violation: Generators - General
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 10/05/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 10/04/1993
Date achieved compliance: 03/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/09/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/01/1994
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/04/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/01/1994
Evaluation lead agency: State

Evaluation date: 10/04/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 03/01/1994
Evaluation lead agency: State

Evaluation date: 10/04/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/01/1994
Evaluation lead agency: State

SHWS:
Facility ID: 3-0023234
Release Town: BELMONT
Notification Date: 10/01/2003
Category: 120 DY

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MCLEAN HOSPITAL (Continued)

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Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 09/24/2004
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: LEAD
Quantity: 820 milligrams per kilogram
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 1560 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 22000 micrograms per liter
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 876 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 605 milligrams per kilogram
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 3430 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/19/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

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Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/05/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/17/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110007369445

Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the

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estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Facility:

Facility ID: 3-0006015
Facility Status: Release Action Outcome
Status Date: 04/05/1995
Source Type: UST
Release Town: BELMONT
Notification Date: 04/04/1994
Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PETROLEUM
Quantity: Not reported

Location:

Location Type: HOSPITAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/05/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

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Action Type: Release
Action Stat: TCTRNS
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0006015
Primary ID: Not reported
Official City: BELMONT
Notification: 04/04/1994
Category: NONE
Facility Status: Response Action Outcome
Status Date: 04/05/1995
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/05/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

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Chemical:

Chemical: PETROLEUM
Quantity: Not reported

Location:

Location Type: HOSPITAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/05/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/04/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0023234
Primary ID: Not reported
Official City: BELMONT
Notification: 10/01/2003
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 09/24/2004
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

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MCLEAN HOSPITAL (Continued)

1000200097

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/19/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/05/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/17/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/01/2003

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
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MCLEAN HOSPITAL (Continued)

1000200097

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 10/01/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: LEAD

Quantity: 820 milligrams per kilogram

Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS

Quantity: 1560 milligrams per kilogram

Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS

Quantity: 22000 micrograms per liter

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS

Quantity: 876 milligrams per kilogram

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS

Quantity: 605 milligrams per kilogram

Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS

Quantity: 3430 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 09/24/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: Fee Received

Action Date: 09/24/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Completion Statement Received

Action Date: 02/09/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 11/20/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Modified, Revised, or Updated Plan Received

Action Date: 11/19/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID
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EDR ID Number
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MCLEAN HOSPITAL (Continued)

1000200097

reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/05/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 10/17/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:
Facility ID: 941

Facility:
Owner Id: 4281
Owner: MCLEAN HOSPITAL
Owner Address: 115 MILL ST
Owner City,St,Zip: BELMONT, MA 02478
Telephone: (617) 855-3235
Description: Other
Fire Dept. ID: 17026
Date of Inspection: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: **Removed**
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 2000
Contents: Gasoline

Tank ID: 2
Tank Status: **Removed**
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: 1 Wall
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 2000
Contents: Gasoline

Tank ID: 3
Tank Status: **Removed**
Tank Useage: Not reported
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Waste Oil

Tank ID: 4
Tank Status: **In Use**
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Other

Tank ID: 5
Tank Status: In Use
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Other

Tank ID: 6
Tank Status: In Use
Tank Useage: Other
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Diesel

Tank ID: 7
Tank Status: In Use
Tank Useage: Other
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Diesel

Tank ID: 8
Tank Status: In Use
Tank Useage: Other
Tank Material: Steel

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 16320
Contents: Fuel Oil

MA Spills:

Facility ID:	3-6015	Spill ID:	N93-0785
Staff Lead:	GORRASI, M	Date Entered:	19940304
Last Entered:	19940304	First Response:	19930607
Spill Date:	19930607	Spill Time:	Not reported
Report Date:	19930607	Report Time:	Not reported
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	-----
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	ROB DOUGLAS/GULE ASSOC		
Notif Tel:	Not reported		
Days/Close:	0		

NY MANIFEST:

EPA ID: MAD046514535
Facility Name: MC CLEAN HOSPITAL
Facility Address: 115 MILL STREET
Facility City: BELMONT
Facility Address 2: Not reported
Country: USA
Mailing Name: MC CLEAN HOSPITAL
Mailing Contact: MC CLEAN HOSPITAL
Mailing Address: 115 MILL STREET
Mailing Address 2: Not reported
Mailing City: BELMONT
Mailing State: MA
Mailing Zip: 02178
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 617-855-2121

Document ID: NYA2204793
Manifest Status: Completed copy
Trans1 State ID: NJXXX-57G
Trans2 State ID: Not reported
Generator Ship Date: 860122

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Trans1 Recv Date: 860122
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860123
Part A Recv Date: 860124
Part B Recv Date: 860130
Generator EPA ID: MAD046514535
Trans1 EPA ID: NYD049178296
Trans2 EPA ID: Not reported
TSD ID: NYD049178296
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00600
Units: P - Pounds
Number of Containers: 015
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00080
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00120
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 86
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYA8274042
Manifest Status: Completed copy
Trans1 State ID: 10740PNY
Trans2 State ID: Not reported
Generator Ship Date: 891019
Trans1 Recv Date: 891019
Trans2 Recv Date: Not reported
TSD Site Recv Date: 891025
Part A Recv Date: 891027
Part B Recv Date: 891101
Generator EPA ID: MAD046514535
Trans1 EPA ID: NYD980769947

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Trans2 EPA ID: Not reported
TSDF ID: NYD000632372
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00020
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-05-13
Trans1 Recv Date: 2008-05-13
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-05-20
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 16.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 003832942JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-05-13
Trans1 Recv Date: 2008-05-13
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-05-20
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 16.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 003832942JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-11-18
Trans1 Recv Date: 2008-11-18
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-12-16
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 7.0
Units: P - Pounds
Number of Containers: 1.0

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: L Landfill.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 005526603JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-11-18
Trans1 Recv Date: 2008-11-18
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-12-01
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 6.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 005526604JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988

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MCLEAN HOSPITAL (Continued)

1000200097

Trans2 State ID: Not reported
Generator Ship Date: 2008-11-18
Trans1 Recv Date: 2008-11-18
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-12-01
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 6.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 005526604JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-11-18
Trans1 Recv Date: 2008-11-18
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-12-01
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 8.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 005526604JJK
Import Ind: N

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-05-13
Trans1 Recv Date: 2008-05-13
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-05-20
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MAD046514535
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 16.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 003832942JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

MANIFEST:

GEN Cert Date: 9/5/2007
Transporter Recpt Date: 9/5/2007
Number Of Containers: Not reported
Container Type: MA95
Waste Code1: MA01
Waste Code2: Not reported
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported

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MAP FINDINGS

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MCLEAN HOSPITAL (Continued)

1000200097

TSDF Name: Northland Environmental Inc.
TSDF ID: rid040098352
TSDF Date: 9/5/2007
Date Imported: 9/16/2005 2:23:17 PM
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: 001707220JJK
Waste Description: HEAVY METAL SOLIDS FOR STABILI
Quantity: 4800
WT/Vol Units: P
Item Number: 75376855
Transporter Name: FLEET ENVIRONMENTAL
Transporter EPA ID: MAR000504928
GEN Cert Date: 1/24/2008
Transporter Recpt Date: 1/24/2008
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: 1/24/2008
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: MAF066003
Waste Description: OILY SOLIDS
Quantity: 400
WT/Vol Units: LBS
Item Number: 260
Transporter Name: FRANK CORP .
Transporter EPA ID: MAD089353023
GEN Cert Date: 8/25/2003
Transporter Recpt Date: 8/25/2003
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: 002493620JJK
Waste Description: LAB PACK
Quantity: 500
WT/Vol Units: P
Item Number: 198
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 9/5/2007
Transporter Recpt Date: 9/5/2007
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: 9/5/2007
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: 002493620JJK
Waste Description: LAB PACK
Quantity: 45
WT/Vol Units: P
Item Number: 199
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 9/5/2007
Transporter Recpt Date: 9/5/2007

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MAP FINDINGS

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MCLEAN HOSPITAL (Continued)

1000200097

Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 9/5/2007
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 15
WT/Vol Units: P
Item Number: 10615
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 6
WT/Vol Units: P
Item Number: 43238
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 20
WT/Vol Units: P
Item Number: 43248
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 2200
WT/Vol Units: P
Item Number: 43300
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 2200
WT/Vol Units: P
Item Number: 10612
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 20
WT/Vol Units: P
Item Number: 10613
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 15
WT/Vol Units: P
Item Number: 43246
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005
EPA ID: MAD046514535
Transporter 2 ID: Not reported

Manifest Docket Number: RIS0111281
Waste Description: LAB PACK
Quantity: 6
WT/Vol Units: P
Item Number: 10614
Transporter Name: 21ST CENTURY ENV MGT
Transporter EPA ID: RID980906986
GEN Cert Date: 7/25/2005
Transporter Recpt Date: 7/25/2005
Transporter 2 Recpt Date: Not reported
TSDf Recpt Date: 7/25/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCLEAN HOSPITAL (Continued)

1000200097

EPA ID: MAD046514535
Transporter 2 ID: Not reported

N56
ENE
1/4-1/2
0.373 mi.
1969 ft.

115 MILL ST.
BELMONT, MA
Site 3 of 3 in cluster N

SHWS S101017584
RELEASE N/A
SPILLS
LEAD

Relative:
Lower

SHWS:
Facility ID: 3-0017520
Release Town: BELMONT
Notification Date: 10/29/1998
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 11/05/1999
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
156 ft.

Chemical:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 5.92 milligrams per liter
Chemical: TPH
Quantity: 3400 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 03/31/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NAFNON
Action Date: 03/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 11/10/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/05/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101017584

Action Stat: Fee Received
Action Date: 06/09/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0017520
Primary ID: Not reported
Official City: BELMONT
Notification: 10/29/1998
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 11/05/1999
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 03/31/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NAFNON
Action Date: 03/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101017584

Action Date: 11/10/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/05/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/09/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 5.92 milligrams per liter
Chemical: TPH
Quantity: 3400 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 03/31/2000
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

(Continued)

S101017584

Action Type: C&E
Action Stat: NAFNON
Action Date: 03/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 11/10/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/05/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/09/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MA Spills:

Facility ID:	0000	Spill ID:	N90-2065
Staff Lead:	FONKEM, V	Date Entered:	19910405
Last Entered:	19910405	First Response:	19901221
Spill Date:	19901221	Spill Time:	Not reported
Report Date:	19901221	Report Time:	12:30PM
Case Closed:	YES	Mat Type:	HAZARDOUS
Virgin Waste:	VIRGIN	Contam Soil:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101017584

Env Impact:	Not reported	Other Impact:	Not reported
Material:	MERCURY	Other Material:	Not reported
Qty Reported:	101-250	Qty Actual:	UNKNOWN
Qty Reported:	-----	Qty Actual:	-----
CAS No:	07439-97-6	PCB Lev (ppm):	NONE
Source:	OTHER SOURCE >	Other Source:	BEO
Incident:	SPILL	Other Incdnt:	Not reported
Cleanup Type:	SC	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	RANDY CHARPERTIER, MCLEAN HOSP.		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	N80-5109
Staff Lead:	CASHINS	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19800516	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	8,800 GAL.	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	N83-0066
Staff Lead:	BESTER	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19830506	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	N84-0857
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Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S101017584

Staff Lead:	KEATING	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19840229	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	TOLUENE	Other Material:	Not reported
Qty Reported:	1 GAL.	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		
Facility ID:	0000	Spill ID:	N87-1756
Staff Lead:	OTTENHEIMER, D	Date Entered:	19880106
Last Entered:	19880106	First Response:	19871212
Spill Date:	19871211	Spill Time:	07:00
Report Date:	19871212	Report Time:	12:00
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#6 FUEL OIL	Other Material:	Not reported
Qty Reported:	10-50	Qty Actual:	10-50
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	PIPE/HOSE/LINE	Other Source:	Not reported
Incident:	RUPTURE	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		
Facility ID:	0000	Spill ID:	N87-1395
Staff Lead:	OTTENHEIMER, D	Date Entered:	19871015
Last Entered:	19871015	First Response:	19871001
Spill Date:	19870930	Spill Time:	07:00
Report Date:	19870930	Report Time:	08:00
Case Closed:	YES	Mat Type:	HAZARDOUS
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	MERCURY	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	_____	Qty Actual:	_____
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

57
NE
1/4-1/2
0.402 mi.
2121 ft.

145 BROOKSIDE AVE
BELMONT, MA 02478

SHWS S100360672
RELEASE N/A
LEAD

Relative:
Lower

SHWS:
Facility ID: 3-0001628
Release Town: BELMONT
Notification Date: 08/21/1986
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/31/1994
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
156 ft.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/21/1986
Response Action Outcome: NC

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/21/1986
Response Action Outcome: NC

Release:
Facility ID: 3-0001628
Primary ID: Not reported
Official City: BELMONT
Notification: 08/21/1986
Category: NONE
Facility Status: Response Action Outcome
Status Date: 08/31/1994
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S100360672

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/21/1986
Response Action Outcome: NC

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/21/1986
Response Action Outcome: NC

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/31/1994
Response Action Outcome: NC

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/21/1986
Response Action Outcome: NC

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/21/1986
Response Action Outcome: NC

LEAD:

Community: Belmont
Unit: Not reported
Inspector Name: Raymond Descheneaux

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S100360672

Inspector License Number: 1758
Activity Type: INSPECT
Activity Date: 5/6/1999
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

58
SW
1/4-1/2
0.453 mi.
2394 ft.

BENTLEY COLLEGE
400 BEAVER ST
WALTHAM, MA 02154

LUST **S105125007**
RELEASE **N/A**

Relative:
Lower

LUST:

Facility:

Actual:
65 ft.

Facility ID: 3-0020750
Facility Status: Release Action Outcome
Status Date: 03/18/2002
Source Type: UST
Release Town: WALTHAM
Notification Date: 05/31/2001
Category: TWO HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PETROLEUM
Quantity: 240 parts per million
Chemical: #2 FUEL OIL
Quantity: 204 parts per million

Location:

Location Type: Not reported

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/27/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/22/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTLEY COLLEGE (Continued)

S105125007

Action Stat: Oral Approval of a Modified Plan
Action Date: 06/05/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0020750
Primary ID: Not reported
Official City: WALTHAM
Notification: 05/31/2001
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/18/2002
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/27/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/22/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTLEY COLLEGE (Continued)

S105125007

Action Date: 06/05/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: PETROLEUM
Quantity: 240 parts per million
Chemical: #2 FUEL OIL
Quantity: 204 parts per million

Location:
Location Type: Not reported

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/18/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/27/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/22/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 06/05/2001
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

BENTLEY COLLEGE (Continued)

S105125007

Action Type: Release
Action Stat: REPORT
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

59
ESE
1/4-1/2
0.490 mi.
2585 ft.

SYCAMORE AUTO SERVICES
257 SYCAMORE ST
WATERTOWN, MA 02172

LUST **S100829928**
RELEASE **N/A**

Relative:
Lower

LUST:

Facility:

Actual:
95 ft.

Facility ID: 3-0003507
Facility Status: Release Action Outcome
Status Date: 09/07/1999
Source Type: UST
Release Town: WATERTOWN
Notification Date: 01/30/1991
Category: NONE
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

Location:

Location Type: GASSTATION

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/11/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SYCAMORE AUTO SERVICES (Continued)

S100829928

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/11/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/30/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/30/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0003507
Primary ID: Not reported
Official City: WATERTOWN
Notification: 01/30/1991
Category: NONE
Facility Status: Response Action Outcome
Status Date: 09/07/1999
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/11/1997
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

SYCAMORE AUTO SERVICES (Continued)

S100829928

reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/30/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/30/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/11/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SYCAMORE AUTO SERVICES (Continued)

S100829928

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS

Action Stat: LSPFA

Action Date: 08/11/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Action Stat: Transmittal Received

Action Date: 08/11/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 01/30/1991

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: TCTRNS

Action Date: 01/30/1991

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

60
SW
1/2-1
0.548 mi.
2893 ft.

DANA ATHLETIC CTR OFF FIELD RD
500 BEAVER ST
WALTHAM, MA 02452

SHWS
RELEASE
INST CONTROL

S106954083
N/A

Relative:
Lower

SHWS:

Facility ID: 3-0024981

Release Town: WALTHAM

Notification Date: 06/23/2005

Category: 120 DY

Associated ID: Not reported

Compliance Status: **Release Action Outcome**

Status Date: 06/21/2007

Phase: Not reported

Response Action Outcome Class: Not reported

Oil Or Haz Material: Not reported

Chemical:

Chemical: PHENANTHRENE

Quantity: 390 milligrams per kilogram

Chemical: BENZO[A]ANTHRACENE

Quantity: 180 milligrams per kilogram

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS

Quantity: 3780 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 08/14/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 06/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 05/30/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ALSSENT
Action Date: 05/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 11/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 07/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Facility ID: 3-0024981
Primary ID: Not reported
Official City: WALTHAM
Notification: 06/23/2005
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 06/21/2007
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

Action Stat: Fee Not Required, Fee Credited
Action Date: 08/14/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 06/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 05/30/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ALSSENT
Action Date: 05/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 11/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 07/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

Action Date: 07/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: PHENANTHRENE
Quantity: 390 milligrams per kilogram
Chemical: BENZO[A]ANTHRACENE
Quantity: 180 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 3780 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 08/14/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/05/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 06/21/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation

Action Stat: Legal Notice Published

Action Date: 06/12/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation

Action Stat: Transmittal Received

Action Date: 05/30/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility

Action Stat: ALSSENT

Action Date: 05/05/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Completion Statement Received

Action Date: 11/07/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Fee Received

Action Date: 07/06/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 07/05/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 06/28/2005

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

DANA ATHLETIC CTR OFF FIELD RD (Continued)

S106954083

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0024981
Action Type: AUL
Action Stat: RECPT
Action Date: 05/30/2007
Response Action Outcome: A3

Release Tracking Number: 3-0024981
Action Type: AUL
Action Stat: LEGNOT
Action Date: 06/12/2007
Response Action Outcome: A3

61
ESE
1/2-1
0.588 mi.
3104 ft.

**NO LOCATION AID
563 TRAPELO RD
BELMONT, MA 02478**

**SHWS S100828194
LUST N/A
RELEASE**

**Relative:
Lower**

SHWS:
Facility ID: 3-0022478
Release Town: BELMONT
Notification Date: 01/09/2003
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 03/10/2004
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

**Actual:
84 ft.**

Chemical:
Chemical: UNKNOWN
Quantity: 18 gallons
Chemical: GASOLINE
Quantity: 18 gallons

Location:
Location Type: COMMERCIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S100828194

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/10/2004
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 Stat: Completion Statement Received
Action Date: 03/10/2004
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 Stat: Written Plan Received
Action Date: 04/08/2003
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 Stat: REPORT
Action Date: 04/08/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/30/2003
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
Action Stat: REPORT
Action Date: 01/09/2003
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 Stat: Oral Approval of Plan
Action Date: 01/09/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LUST:

Facility:
Facility ID: 3-0002749
Facility Status: Release Action Outcome
Status Date: 03/13/1995
Source Type: UST
Release Town: BELMONT
Notification Date: 10/26/1989
Category: NONE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S100828194

Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0002749
Primary ID: Not reported
Official City: BELMONT
Notification: 10/26/1989
Category: NONE
Facility Status: Response Action Outcome
Status Date: 03/13/1995
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/26/1989
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)

S100828194

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0022478
Primary ID: Not reported
Official City: BELMONT
Notification: 01/09/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/10/2004
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/10/2004
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 Stat: Completion Statement Received
Action Date: 03/10/2004
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)

S100828194

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 04/08/2003
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 Stat: REPORT
Action Date: 04/08/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/30/2003
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
Action Stat: REPORT
Action Date: 01/09/2003
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 Stat: Oral Approval of Plan
Action Date: 01/09/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: UNKNOWN
Quantity: 18 gallons
Chemical: GASOLINE
Quantity: 18 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/10/2004
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 Stat: Completion Statement Received
Action Date: 03/10/2004
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 Stat: Written Plan Received
Action Date: 04/08/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S100828194

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 Stat: REPORT

Action Date: 04/08/2003

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: Notice of Responsibility

Action Stat: ISSUED

Action Date: 01/30/2003

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

Action Stat: REPORT

Action Date: 01/09/2003

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 Stat: Oral Approval of Plan

Action Date: 01/09/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

62
South
1/2-1
0.641 mi.
3384 ft.

INTERSECTION
WARREN ST / CHAFFEE ST
WALTHAM, MA

SHWS **S105914127**
RELEASE **N/A**

Relative:
Lower

SHWS:

Facility ID: 3-0022872

Release Town: WALTHAM

Notification Date: 05/20/2003

Category: TWO HR

Associated ID: Not reported

Compliance Status: **Release Action Outcome**

Status Date: 05/27/2003

Phase: Not reported

Response Action Outcome Class: Not reported

Oil Or Haz Material: Not reported

Chemical:

Chemical: MODF

Quantity: 28 gallons

Chemical: MODF

Quantity: 36 gallons

Location:

Location Type: ROADWAY

Location Type: COMMERCIAL

Source:

Source Type: TRANSFORM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERSECTION (Continued)

S105914127

Action:

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2003
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
Action Stat: RAO Statement Received
Action Date: 05/27/2003
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 Stat: REPORT
Action Date: 05/27/2003
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
Action Stat: REPORT
Action Date: 05/20/2003
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 Stat: Oral Approval of Plan
Action Date: 05/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 3-0022872
Primary ID: Not reported
Official City: WALTHAM
Notification: 05/20/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 05/27/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2003
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
Action Stat: RAO Statement Received
Action Date: 05/27/2003
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

INTERSECTION (Continued)

S105914127

Action Type: RNF
Action Stat: REPORT
Action Date: 05/27/2003
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
Action Stat: REPORT
Action Date: 05/20/2003
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 Stat: Oral Approval of Plan
Action Date: 05/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: MODF
Quantity: 28 gallons
Chemical: MODF
Quantity: 36 gallons

Location:
Location Type: ROADWAY
Location Type: COMMERCIAL

Source:
Source Type: TRANSFORM

Action:
Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/05/2003
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
Action Stat: RAO Statement Received
Action Date: 05/27/2003
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 Stat: REPORT
Action Date: 05/27/2003
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
Action Stat: REPORT
Action Date: 05/20/2003
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 Stat: Oral Approval of Plan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERSECTION (Continued)

S105914127

Action Date: 05/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

63
ESE
1/2-1
0.660 mi.
3483 ft.

PROPERTY
1010 PLEASANT ST
BELMONT, MA 02178

SHWS S100828198
RELEASE N/A

Relative:
Lower

SHWS:
Facility ID: 3-0002296
Release Town: BELMONT
Notification Date: 04/05/1989
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 05/29/2001
Phase: PHASE II
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
102 ft.

Chemical:
Chemical: DIESEL FUEL
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Phase II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100828198

Action Stat: Scope of Work Received
Action Date: 07/17/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/05/1989
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/05/1989
Response Action Outcome: Not reported

Release:

Facility ID: 3-0002296
Primary ID: Not reported
Official City: BELMONT
Notification: 04/05/1989
Category: NONE
Facility Status: Response Action Outcome
Status Date: 05/29/2001
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100828198

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 07/17/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/05/1989
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/05/1989
Response Action Outcome: Not reported

Chemical:
Chemical: DIESEL FUEL
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100828198

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 07/17/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/15/1996
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/05/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100828198

Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/05/1989
Response Action Outcome: Not reported

64
NE
1/2-1
0.664 mi.
3505 ft.

TEXACO GAS STATION
337 MILL ST
BELMONT, MA 02178

LUST **S101039320**
RELEASE **N/A**
SPILLS

Relative:
Higher

LUST:

Actual:
213 ft.

Facility:

Facility ID: 3-0013975
Facility Status: Release Action Outcome
Status Date: 07/09/1997
Source Type: UST
Release Town: BELMONT
Notification Date: 07/09/1996
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: HEATING OIL
Quantity: 100 parts per million

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/21/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 05/07/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO GAS STATION (Continued)

S101039320

Action Date: 10/16/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/29/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 07/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 07/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID: 3-0013975
Primary ID: Not reported
Official City: BELMONT
Notification: 07/09/1996
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 07/09/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/21/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 05/07/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/16/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO GAS STATION (Continued)

S101039320

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/29/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 07/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 07/09/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: HEATING OIL
Quantity: 100 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/21/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 05/07/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/16/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TEXACO GAS STATION (Continued)

S101039320

Action Date: 07/29/1996
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
 Action Stat: REPORT
 Action Date: 07/09/1996
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
 Action Stat: IRA Assessment Only
 Action Date: 07/09/1996
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

MA Spills:

Facility ID:	0000	Spill ID:	N91-0799
Staff Lead:	FONKEM, V	Date Entered:	19911011
Last Entered:	19920320	First Response:	19910612
Spill Date:	19910612	Spill Time:	Not reported
Report Date:	19910612	Report Time:	09:30AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	11-50	Qty Actual:	1-10
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	TANKER TRUCK	Other Source:	Not reported
Incident:	SPILL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	1
Notifier:	M LEBLANC		
Notif Tel:	Not reported		
Days/Close:	1		

65
 ESE
 1/2-1
 0.664 mi.
 3505 ft.

**TRAPELO RD.
 BELMONT, MA**

**SHWS S101022606
 RELEASE N/A
 SPILLS**

**Relative:
 Lower**

SHWS:

Facility ID: 3-0015383
 Release Town: WALTHAM
 Notification Date: 08/13/1997
 Category: 120 DY
 Associated ID: Not reported
Compliance Status: Downgradient Property Status
 Status Date: 01/27/2000
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

**Actual:
 72 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Chemical:
Chemical: GASOLINE
Quantity: 540 milligrams per kilogram
Chemical: UNKNOWN CHEMICAL OF TYPE - OIL
Quantity: Not reported

Location:
Location Type: ROADWAY

Source:
Source Type: UNKNOWN

Action:
Action Type: Downgradient Property Status
Action Stat: Fee Not Required, Fee Refunded
Action Date: 12/12/2003
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 02/01/2000
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 01/27/2000
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/18/1998
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Status Report Received
Action Date: 06/12/1998
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 08/19/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 08/19/1997
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notice of Intent to Conduct a URAM
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 08/13/1997
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Action Type: Release
Action Stat: REPORT
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/13/1997
Response Action Outcome: Not reported

Release:

Facility ID: 3-0015383
Primary ID: Not reported
Official City: WALTHAM
Notification: 08/13/1997
Category: 120 DY
Facility Status: Downgradient Property Status
Status Date: 01/27/2000
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Downgradient Property Status
Action Stat: Fee Not Required, Fee Refunded
Action Date: 12/12/2003
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 02/01/2000
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 01/27/2000
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/18/1998
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Status Report Received
Action Date: 06/12/1998
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 08/19/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 08/19/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notice of Intent to Conduct a URAM
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/13/1997
Response Action Outcome: Not reported

Chemical:
Chemical: GASOLINE
Quantity: 540 milligrams per kilogram
Chemical: UNKNOWN CHEMICAL OF TYPE - OIL
Quantity: Not reported

Location:
Location Type: ROADWAY

Source:
Source Type: UNKNOWN

Action:
Action Type: Downgradient Property Status
Action Stat: Fee Not Required, Fee Refunded
Action Date: 12/12/2003
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 02/01/2000
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 01/27/2000
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/18/1998
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Status Report Received
Action Date: 06/12/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 08/19/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 08/19/1997
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notice of Intent to Conduct a URAM
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/13/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 08/13/1997
Response Action Outcome: Not reported

MA Spills:

Facility ID: 0000
Staff Lead: Not reported
Last Entered: Not reported
Spill Date: 19830218
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: TRANSFORMER OIL
Qty Reported: 24x18
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Spill ID: N83-5096
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Facility ID: 0000
Staff Lead: PENTA

Spill ID: N83-0127
Date Entered: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Last Entered: Not reported
Spill Date: 19830620
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: TRANSFORMER OIL
Qty Reported: Not reported
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Facility ID: 0000
Staff Lead: PENTA/
Last Entered: Not reported
Spill Date: 19840719
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: #6 FUEL OIL
Qty Reported: 600 GAL.
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Spill ID: N84-0453
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Facility ID: 0000
Staff Lead: DUGGAN
Last Entered: Not reported
Spill Date: 19860102
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: #6 FUEL OIL
Qty Reported: 200 GAL.
Qty Reported: Not reported
CAS No: Not reported
Source: U.S.T.
Incident: OVERFILL
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported

Spill ID: N86-0005
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101022606

Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Facility ID: 0000
Staff Lead: GUARCIARIELLO
Last Entered: Not reported
Spill Date: 19851121
Report Date: Not reported
Case Closed: YES
Virgin Waste: Not reported
Env Impact: Not reported
Material: #2 FUEL OIL
Qty Reported: Not reported
Qty Reported: Not reported
CAS No: Not reported
Source: Not reported
Incident: Not reported
Cleanup Type: Not reported
Referral: Not reported
Report Prep: Not reported
Notifier: Not reported
Notif Tel: Not reported
Days/Close: 1

Spill ID: N85-0890
Date Entered: Not reported
First Response: Not reported
Spill Time: Not reported
Report Time: Not reported
Mat Type: Not reported
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: Not reported
Qty Actual: Not reported
PCB Lev (ppm): Not reported
Other Source: Not reported
Other Incdnt: Not reported
Contractor: Not reported
LUST Elig: Not reported
Category: Not reported

Facility ID: 0000
Staff Lead: OTTENHEIMER, D
Last Entered: 19890914
Spill Date: Not reported
Report Date: 19890412
Case Closed: YES
Virgin Waste: VIRGIN
Env Impact: SOIL
Material: GASOLINE
Qty Reported: UNKNOWN
Qty Reported: _____
CAS No: Not reported
Source: OTHER SOURCE >
Incident: LEAK
Cleanup Type: _____
Referral: NO
Report Prep: Not reported
Notifier: STEVE SULLIVAN
Notif Tel: Not reported
Days/Close: 1

Spill ID: N89-0544
Date Entered: 19890602
First Response: 19890412
Spill Time: Not reported
Report Time: 10:20PM
Mat Type: PETROLEUM
Contam Soil: Not reported
Other Impact: Not reported
Other Material: Not reported
Qty Actual: _____
Qty Actual: _____
PCB Lev (ppm): _____
Other Source: POSS. BG TANK
Other Incdnt: Not reported
Contractor: NOT USED
LUST Elig: NO
Category: Not reported

66
ESE
1/2-1
0.677 mi.
3574 ft.

FORMER MOBIL STN 11798 (FRMLY 01-196)
27 LEXINGTON ST
BELMONT, MA 02478

SHWS S107678086
RELEASE N/A

Relative:
Lower

SHWS:
Facility ID: 3-0025391
Release Town: BELMONT
Notification Date: 03/06/2006
Category: 120 DY
Associated ID: Not reported

Actual:
68 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER MOBIL STN 11798 (FRMLY 01-196) (Continued)

S107678086

Compliance Status:	Release Action Outcome
Status Date:	02/13/2007
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Not reported
Chemical:	
Chemical:	NAPHTHALENE
Quantity:	4.79 milligrams per kilogram
Location:	
Location Type:	Not reported
Source:	
Source Type:	Not reported
Action:	
Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	02/16/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	02/13/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	ALSENT
Action Date:	02/12/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	03/17/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Stat:	REPORT
Action Date:	03/06/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release
Action Stat:	REPORT
Action Date:	03/06/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Release:	
Facility ID:	3-0025391
Primary ID:	Not reported
Official City:	BELMONT
Notification:	03/06/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER MOBIL STN 11798 (FRMLY 01-196) (Continued)

S107678086

Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 02/13/2007
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 02/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/13/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 02/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/06/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/06/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: NAPHTHALENE
Quantity: 4.79 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 02/16/2007
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

FORMER MOBIL STN 11798 (FRMLY 01-196) (Continued)

S107678086

reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/13/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 02/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/06/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/06/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

67
NW
1/2-1
0.716 mi.
3779 ft.

PROPERTY
659 TRAPELO RD
WALTHAM, MA 02154

SHWS S101856525
RELEASE N/A

Relative:
Higher

SHWS:
Facility ID: 3-0002202
Release Town: WALTHAM
Notification Date: 10/15/1989
Category: TWO HR
Associated ID: Not reported
Compliance Status: Waiver Completion Statement Permanent
Status Date: 04/01/1994
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S101856525

Source Type: Not reported

Action:

Action Type: Release
Action Stat: REPORT
Action Date: 08/06/2002
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WCSPRM
Action Date: 04/01/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/03/1989
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/28/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 05/02/1989
Response Action Outcome: Not reported

Release:

Facility ID: 3-0002202
Primary ID: Not reported
Official City: WALTHAM
Notification: 10/15/1989
Category: TWO HR
Facility Status: Waiver Completion Statement, Permanent
Status Date: 04/01/1994
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Release
Action Stat: REPORT
Action Date: 08/06/2002
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WCSPRM
Action Date: 04/01/1994
Response Action Outcome: Not reported

Action Type: TREGS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S101856525

Action Stat: WAVACC
Action Date: 11/03/1989
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/28/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 05/02/1989
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 08/06/2002
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WCSPRM
Action Date: 04/01/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/03/1989
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/28/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 05/02/1989

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PROPERTY (Continued)

S101856525

Response Action Outcome: Not reported

68
ESE
1/2-1
0.720 mi.
3801 ft.

BELMONT SPRINGS WATER CO
1010 PLEASANT ST
BELMONT, MA 02478

SHWS 1000301630
FINDS MAD981895352
LUST
RELEASE
RCRA-NonGen

Relative:
Lower

SHWS:
 Facility ID: 3-0019570
 Release Town: BELMONT
 Notification Date: 05/24/2000
 Category: 72 HR
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 05/29/2001
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
91 ft.

Chemical:
 Chemical: DIESEL FUEL
 Quantity: Not reported
 Chemical: OIL
 Quantity: Not reported

Location:
 Location Type: COMMERCIAL

Source:
 Source Type: PIPE
 Source Type: UST

Action:
 Action Type: Response Action Outcome
 Action Stat: Level I - Technical Screen Audit
 Action Date: 04/02/2007
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Stat: Status Report Received
Action Date: 04/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/24/2000
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

BELMONT SPRINGS WATER CO (Continued)

1000301630

reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0014403
Release Town: BELMONT
Notification Date: 10/23/1996
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 09/30/2005
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: TPH
Quantity: 47000 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 09/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 11/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 12/02/2003
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

BELMONT SPRINGS WATER CO (Continued)

1000301630

reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/03/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/11/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 10/11/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Stat: Transmittal Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110008413751

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Facility:

Facility ID: 3-0019570
Facility Status: Release Action Outcome
Status Date: 05/29/2001
Source Type: UST
Release Town: BELMONT
Notification Date: 05/24/2000
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Chemical:

Chemical: DIESEL FUEL
Quantity: Not reported
Chemical: OIL
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: PIPE
Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0014403
Primary ID: Not reported
Official City: BELMONT
Notification: 10/23/1996
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 09/30/2005
Phase: Not reported
Rspns Actn Outcome Class: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Oil / Haz Material Type: Not reported

Action:

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 09/30/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 11/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 12/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/03/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/11/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 10/11/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/23/1996
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

BELMONT SPRINGS WATER CO (Continued)

1000301630

reduced to background.

Chemical:

Chemical: TPH
Quantity: 47000 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 09/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 11/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 12/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/01/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/03/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/11/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 10/11/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/08/1996
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

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Type: Release
Action Stat: REPORT
Action Date: 10/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 3-0019570
Primary ID: Not reported
Official City: BELMONT
Notification: 05/24/2000
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 05/29/2001
Phase: Not reported
Rspsn Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/22/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 11/20/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 11/20/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Status Report Received

Action Date: 11/10/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 07/17/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 07/17/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 06/09/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: INTLET

Action Date: 06/09/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: IRA Assessment Only

Action Date: 05/24/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 05/24/2000

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

BELMONT SPRINGS WATER CO (Continued)

1000301630

Chemical:

Chemical: DIESEL FUEL
Quantity: Not reported
Chemical: OIL
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: PIPE
Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Action Date: 11/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/10/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/09/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

RCRA-NonGen:

Date form received by agency: 09/04/2002
Facility name: BELMONT SPRINGS WATER CO
Facility address: 1010 PLEASANT ST
BELMONT, MA 02478
EPA ID: MAD981895352
Mailing address: PO BOX I
BELMONT, MA 021790000
Contact: MATT NESTOR
Contact address: PO BOX I

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT SPRINGS WATER CO (Continued)

1000301630

Contact country: BELMONT, MA 02179
US
Contact telephone: (617) 489-4023
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: BELMONT SPRINGS WATER CO
Owner/operator address: PO BOX 1
BELMONT, MA 02179
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 10/20/1986
Facility name: BELMONT SPRINGS WATER CO
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

69
SSW
1/2-1
0.739 mi.
3902 ft.

JIMMY KS DRYCLEANERS
10 WARREN ST
WALTHAM, MA 02453

SHWS 1000303758
FINDS MAD982198673
RELEASE
RCRA-NonGen

Relative:
Lower

SHWS:
Facility ID: 3-0003582
Release Town: WALTHAM
Notification Date: 04/15/1991
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/16/2000
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
64 ft.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JIMMY KS DRYCLEANERS (Continued)

1000303758

Action Date: 06/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 12/04/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 12/02/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 01/28/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110009591389

Not reported

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.

Release:

Facility ID: 3-0003582
Primary ID: Not reported
Official City: WALTHAM
Notification: 04/15/1991
Category: NONE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JIMMY KS DRYCLEANERS (Continued)

1000303758

Facility Status: Response Action Outcome
Status Date: 08/16/2000
Phase: Not reported
Rsps Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 12/04/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 12/02/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JIMMY KS DRYCLEANERS (Continued)

1000303758

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 01/28/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 12/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 11/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JIMMY KS DRYCLEANERS (Continued)

1000303758

Action Date: 06/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/16/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 12/04/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 12/02/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 01/28/1991
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

RCRA-NonGen:

Date form received by agency: 07/07/1987
Facility name: JIMMY KS DRYCLEANERS
Facility address: 10 WARREN ST
WALTHAM, MA 02154
EPA ID: MAD982198673
Contact: JAMES KELLEHER
Contact address: 10 WARREN ST
WALTHAM, MA 02154
Contact country: US
Contact telephone: (617) 893-2098
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JAMES KELLEHER
Owner/operator address: 10 WARREN ST
WALTHAM, MA 02154
Owner/operator country: US

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JIMMY KS DRYCLEANERS (Continued)

1000303758

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Owner/operator name: JIMMY KS DRYCLEANERS
Owner/operator address: 10 WARREN ST
WALTHAM, MA 02154

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

70 NE 1/2-1 0.744 mi. 3927 ft.	AA BAT BELMONT, MA	FUDS	1010309720 N/A
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Relative: **Higher**

Actual: **217 ft.**

FUDS:

Federal Facility ID:	MA9799F8264
FUDS #:	D01MA0518
Facility Name:	AA BAT
City:	BELMONT
State:	MA
EPA Region:	1
County:	MIDDLESEX
Congressional District:	07
US Army District:	New England District (NAE)
Fiscal Year:	2007
Telephone:	978-318-8238
NPL Status:	Not Listed
RAB:	Not reported
CTC:	5.98016
Current Owner:	PRIVATE

FUDS Description Details:
 Urban Area; 9.25 ACRES

FUDS History Details:
 site acquired by lease in approx 1943. Army installed 4 gun emplacements, several building, a tennis court, and septic system. Government removed all improvements. Site is currently a Country Club.

FUDS Current Program Details:
 site acquired by lease in approx 1943. Army installed 4 gun emplacements, several building, a tennis court, and septic system. Government removed all improvements. Site is currently a Country Club.

FUDS Future Program Details:
 site acquired by lease in approx 1943. Army installed 4 gun emplacements, several building, a tennis court, and septic system. Government removed all improvements. Site is currently a Country Club.

71 SSW 1/2-1 0.763 mi. 4030 ft.	SHELL SERVICE STATION #137871 65 MAIN ST WALTHAM, MA 02453	SHWS RELEASE UST	U001006603 N/A
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Relative: **Lower**

Actual: **60 ft.**

SHWS:

Facility ID:	3-0027973
Release Town:	WALTHAM
Notification Date:	09/10/2008
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	Unclassified
Status Date:	09/10/2008
Phase:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137871 (Continued)

U001006603

Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 12900 micrograms per liter
Chemical: 2-METHYLNAPHTHALENE
Quantity: 3670 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 653 milligrams per kilogram
Chemical: TETRACHLOROETHENE
Quantity: 325 micrograms per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/02/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/02/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

Release:
Facility ID: 3-0027973
Primary ID: Not reported
Official City: WALTHAM
Notification: 09/10/2008
Category: 120 DY
Facility Status: Unclassified Waste Site
Status Date: 09/10/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/02/2008
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137871 (Continued)

U001006603

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/02/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 12900 micrograms per liter
Chemical: 2-METHYLNAPHTHALENE
Quantity: 3670 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 653 milligrams per kilogram
Chemical: TETRACHLOROETHENE
Quantity: 325 micrograms per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/02/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/02/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/10/2008
Response Action Outcome: Not reported

UST:
Facility ID: 11215

Facility:
Owner Id: 6092

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137871 (Continued)

U001006603

Owner: MOTIVA ENTERPRISES LLC
Owner Address: 7300 WEST FRIENDLY AVE MS F-76
Owner City,St,Zip: GREENSBORO, NC 27420
Telephone: (401) 578-1458
Description: Gas Station
Fire Dept. ID: 17308
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 2
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 3
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION #137871 (Continued)

U001006603

Tank ID: 4
Tank Status: **Removed**
Tank Useage: Not reported
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Reinforced
Pipe Container: Suction: Check Valve @ Tank
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 550
Contents: Waste Oil

Tank ID: 5
Tank Status: **Removed**
Tank Useage: Not reported
Tank Material: Reinforced
Tank Contents: 1 Wall
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Reinforced
Pipe Container: Suction: Check Valve @ Tank
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 550
Contents: Fuel Oil

72
ESE
1/2-1
0.775 mi.
4093 ft.

NO LOCATION AID
43 WHITE ST
BELMONT, MA 02478

SHWS S108034494
RELEASE N/A

Relative:
Lower

Actual:
68 ft.

SHWS:
Facility ID: 3-0026011
Release Town: BELMONT
Notification Date: 06/21/2006
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 06/21/2006
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 3550 parts per billion
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 11100 parts per billion
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 2150 parts per billion
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 17900 parts per billion

Location:
Location Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S108034494

Source:

Source Type: Not reported

Action:

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 07/06/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release

Action Stat: REPORT

Action Date: 06/21/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF

Action Stat: REPORT

Action Date: 06/21/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 06/21/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID: 3-0026011

Primary ID: Not reported

Official City: BELMONT

Notification: 06/21/2006

Category: 120 DY

Facility Status: Response Action Outcome

Status Date: 06/21/2006

Phase: Not reported

Rspns Actn Outcome Class: Not reported

Oil / Haz Material Type: Not reported

Action:

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 07/06/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release

Action Stat: REPORT

Action Date: 06/21/2006

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF

Action Stat: REPORT

Action Date: 06/21/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S108034494

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 3550 parts per billion
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 11100 parts per billion
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 2150 parts per billion
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 17900 parts per billion

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/06/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 06/21/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/21/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/21/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

73
South
1/2-1
0.780 mi.
4117 ft.

NO LOCATION AID
15-21 MAIN ST
WALTHAM, MA 02154

SHWS
RELEASE
INST CONTROL

S102967402
N/A

Relative:
Lower

SHWS:

Facility ID: 3-0015699
Release Town: WALTHAM
Notification Date: 11/06/1997
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 06/01/1998
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
60 ft.

Chemical:

Chemical: TPH
Quantity: 6750 milligrams per kilogram
Chemical: VINYL CHLORIDE
Quantity: 41 micrograms per liter
Chemical: BENZENE, 1,3,5-TRIMETHYL-
Quantity: 35 milligrams per kilogram
Chemical: NAPHTHALENE
Quantity: 25 milligrams per kilogram
Chemical: TOLUENE
Quantity: 11800 micrograms per liter
Chemical: BENZENE
Quantity: 6240 micrograms per liter
Chemical: XYLENE
Quantity: 13400 micrograms per liter

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NOA
Action Date: 07/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967402

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 06/08/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967402

Action Stat: REPORT
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Facility ID: 3-0015699
Primary ID: Not reported
Official City: WALTHAM
Notification: 11/06/1997
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 06/01/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NOA
Action Date: 07/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Fee Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967402

Action Date: 06/08/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/01/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967402

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/06/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: TPH
Quantity: 6750 milligrams per kilogram
Chemical: VINYL CHLORIDE
Quantity: 41 micrograms per liter
Chemical: BENZENE, 1,3,5-TRIMETHYL-
Quantity: 35 milligrams per kilogram
Chemical: NAPHTHALENE
Quantity: 25 milligrams per kilogram
Chemical: TOLUENE
Quantity: 11800 micrograms per liter
Chemical: BENZENE
Quantity: 6240 micrograms per liter
Chemical: XYLENE
Quantity: 13400 micrograms per liter

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 07/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E
Action Stat: NOA
Action Date: 07/27/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967402

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Action Stat: Fee Received

Action Date: 06/08/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation

Action Stat: Transmittal Received

Action Date: 06/01/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Completion Statement Received

Action Date: 06/01/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 06/01/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 03/27/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 03/26/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Modified, Revised, or Updated Plan Received

Action Date: 02/20/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Action Stat: Fee Received

Action Date: 11/10/1997

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

NO LOCATION AID (Continued)

S102967402

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0015699
Action Type: AUL
Action Stat: RECPT
Action Date: 06/01/1998
Response Action Outcome: A3

74
SW
1/2-1
0.812 mi.
4288 ft.

GASOLINE STATION FMR
127-131 LINDEN ST
WALTHAM, MA 02154

SHWS S105199318
RELEASE N/A

Relative:
Lower

SHWS:
Facility ID: 3-0000942
Release Town: WALTHAM
Notification Date: 01/15/1990
Category: NONE
Associated ID: Not reported
Compliance Status: No Further Action (DEP Determined)
Status Date: 07/12/1996
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GASOLINE STATION FMR (Continued)

S105199318

Action:

Action Type: TREGS
Action Stat: DEPNTA
Action Date: 07/12/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Not reported

Release:

Facility ID: 3-0000942
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/15/1990
Category: NONE
Facility Status: DEP No Further Action
Status Date: 07/12/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: TREGS
Action Stat: DEPNTA
Action Date: 07/12/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Not reported

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: TREGS
Action Stat: DEPNTA
Action Date: 07/12/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

75
 NE
 1/2-1
 0.821 mi.
 4333 ft.

RESIDENCE
56 ROBIN WOOD RD
BELMONT, MA 02478

SHWS S105914108
RELEASE N/A
LAST

Relative:
Lower

SHWS:
 Facility ID: 3-0022807
 Release Town: BELMONT
 Notification Date: 04/23/2003
 Category: TWO HR
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 02/17/2005
 Phase: PHASE II
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
170 ft.

Chemical:
 Chemical: FUEL OIL #2
 Quantity: 250 gallons
 Chemical: FUEL OIL #2
 Quantity: 217 gallons

Location:
 Location Type: RESIDENTIAL

Source:
 Source Type: VEHICLE
 Source Type: PIPE
 Source Type: AST

Action:
 Action Type: BWS03
 Action Stat: APPROV
 Action Date: Not reported
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
 Action Stat: Completion Statement Received
 Action Date: 02/17/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
 Action Stat: RAO Statement Received
 Action Date: 02/17/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
 Action Stat: Status Report Received
 Action Date: 09/10/2004
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
 Action Stat: PEREFF
 Action Date: 06/18/2004
 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

RESIDENCE (Continued)

S105914108

reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 05/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 1C Classification
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S105914108

Action Stat: Status Report Received
Action Date: 08/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0022807
Primary ID: Not reported
Official City: BELMONT
Notification: 04/23/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 02/17/2005
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: BWS03
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S105914108

Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 05/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 1C Classification
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
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

RESIDENCE (Continued)

S105914108

Action Type: Release
Action Stat: REPORT
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: FUEL OIL #2
Quantity: 250 gallons
Chemical: FUEL OIL #2
Quantity: 217 gallons

Location:
Location Type: RESIDENTIAL

Source:
Source Type: VEHICLE
Source Type: PIPE
Source Type: AST

Action:
Action Type: BWS03

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S105914108

Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 05/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 1C Classification
Action Date: 04/29/2004
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

RESIDENCE (Continued)

S105914108

reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/23/2003
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

RESIDENCE (Continued)

S105914108

LAST:

Facility ID: 3-0022807
Source Type: AST
Release Town: BELMONT
Notification Date: 04/23/2003
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 02/17/2005
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: FUEL OIL #2
Quantity: 250 gallons
Chemical: FUEL OIL #2
Quantity: 217 gallons

Location:

Location Type: RESIDENTIAL

Source:

Source Type: VEHICLE
Source Type: PIPE
Source Type: AST

Action:

Action Type: BWS03
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S105914108

Action Stat: ISSUED
Action Date: 05/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 05/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 1C Classification
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/29/2003
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

RESIDENCE (Continued)

S105914108

reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

76
ESE
1/2-1
0.824 mi.
4351 ft.

ORCHARD ST
917 BELMONT ST
WATERTOWN, MA

SHWS 1001698242
RELEASE N/A

Relative:
Lower

SHWS:
Facility ID: 3-0018880
Release Town: WATERTOWN
Notification Date: 10/25/1999
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 12/30/1999
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
101 ft.

Chemical:
Chemical: DIESEL FUEL
Quantity: 150 gallons
Chemical: DIESEL FUEL
Quantity: 100 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ORCHARD ST (Continued)

1001698242

Action Date: 12/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0018880
Primary ID: Not reported
Official City: WATERTOWN
Notification: 10/25/1999
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 12/30/1999
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ORCHARD ST (Continued)

1001698242

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/16/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/30/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/25/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/25/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: DIESEL FUEL
Quantity: 150 gallons
Chemical: DIESEL FUEL
Quantity: 100 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/16/1999
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

ORCHARD ST (Continued)

1001698242

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

77
South
1/2-1
0.840 mi.
4437 ft.

NO LOCATION AID
656 MAIN ST
WATERTOWN, MA 02472

LUST S102967438
RELEASE N/A

Relative:
Lower

LUST:

Facility:

Actual:
62 ft.

Facility ID: 3-0015763
Facility Status: Release Action Outcome
Status Date: 06/22/1998
Source Type: UST
Release Town: WATERTOWN
Notification Date: 11/26/1997
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: GASOLINE
Quantity: 180 parts per million
Chemical: GASOLINE
Quantity: 100 parts per million
Chemical: NAPHTHALENE
Quantity: 25 parts per million

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/22/1998
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)

S102967438

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/22/1998
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 Stat: Status Report Received
Action Date: 03/27/1998
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 Stat: FLDRUN
Action Date: 02/02/1998
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 Stat: Written Plan Received
Action Date: 01/28/1998
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 Stat: REPORT
Action Date: 01/23/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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 Stat: Oral Approval of Plan
Action Date: 11/26/1997
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
Action Stat: REPORT
Action Date: 11/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 3-0015763
Primary ID: Not reported
Official City: WATERTOWN
Notification: 11/26/1997
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 06/22/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102967438

Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/22/1998
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
Action Stat: RAO Statement Received
Action Date: 06/22/1998
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 Stat: Status Report Received
Action Date: 03/27/1998
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 Stat: FLDRUN
Action Date: 02/02/1998
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 Stat: Written Plan Received
Action Date: 01/28/1998
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 Stat: REPORT
Action Date: 01/23/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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 Stat: Oral Approval of Plan
Action Date: 11/26/1997
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
Action Stat: REPORT
Action Date: 11/26/1997
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)

S102967438

Chemical:

Chemical: GASOLINE
Quantity: 180 parts per million
Chemical: GASOLINE
Quantity: 100 parts per million
Chemical: NAPHTHALENE
Quantity: 25 parts per million

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/22/1998
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
Action Stat: RAO Statement Received
Action Date: 06/22/1998
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 Stat: Status Report Received
Action Date: 03/27/1998
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 Stat: FLDRUN
Action Date: 02/02/1998
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 Stat: Written Plan Received
Action Date: 01/28/1998
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 Stat: REPORT
Action Date: 01/23/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/12/1998
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

NO LOCATION AID (Continued)

S102967438

Action Stat: Oral Approval of Plan
 Action Date: 11/26/1997
 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
 Action Stat: REPORT
 Action Date: 11/26/1997
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

O78
SW
1/2-1
0.861 mi.
4546 ft.

NO LOCATION AID
85 LINDEN ST
WALTHAM, MA
Site 1 of 2 in cluster O

SHWS **S104774177**
RELEASE **N/A**

Relative:
Lower

SHWS:
 Facility ID: 3-0019801
 Release Town: WALTHAM
 Notification Date: 08/02/2000
 Category: 120 DY
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 08/02/2000
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
38 ft.

Chemical:
 Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
 Quantity: 450 milligrams per kilogram

Location:
 Location Type: Not reported

Source:
 Source Type: Not reported

Action:
 Action Type: Response Action Outcome
 Action Stat: RAO Statement Received
 Action Date: 08/02/2000
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
 Action Stat: REPORT
 Action Date: 08/02/2000
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
 Action Stat: REPORT
 Action Date: 08/02/2000
 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)

S104774177

Release:

Facility ID: 3-0019801
Primary ID: Not reported
Official City: WALTHAM
Notification: 08/02/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 08/02/2000
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 450 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/02/2000
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)

S104774177

reduced to background.

079
SW
1/2-1
0.876 mi.
4623 ft.

97 LINDEN ST
WALTHAM, MA 02154
Site 2 of 2 in cluster O

LUST
RELEASE
SPILLS
S101023359
N/A

Relative:
Lower

LUST:

Facility:

Actual:
38 ft.

Facility ID: 3-0002952
Facility Status: **No Further Action (DEP Determined)**
Status Date: 04/18/1996
Source Type: UST
Release Town: WALTHAM
Notification Date: 01/15/1990
Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PETROLEUM
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: TREGS
Action Stat: DEPNFA
Action Date: 04/18/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1990
Response Action Outcome: Not reported

Release:

Facility ID: 3-0002952
Primary ID: Not reported
Official City: WALTHAM
Notification: 01/15/1990
Category: NONE
Facility Status: DEP No Further Action
Status Date: 04/18/1996
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: TREGS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S101023359

Action Stat:	DEPNFA		
Action Date:	04/18/1996		
Response Action Outcome:	Not reported		
Action Type:	Release		
Action Stat:	TCTRNS		
Action Date:	01/15/1990		
Response Action Outcome:	Not reported		
Chemical:			
Chemical:	PETROLEUM		
Quantity:	Not reported		
Location:			
Location Type:	COMMERCIAL		
Source:			
Source Type:	UST		
Action:			
Action Type:	TREGS		
Action Stat:	DEPNFA		
Action Date:	04/18/1996		
Response Action Outcome:	Not reported		
Action Type:	Release		
Action Stat:	TCTRNS		
Action Date:	01/15/1990		
Response Action Outcome:	Not reported		
MA Spills:			
Facility ID:	3-2952	Spill ID:	N89-1063
Staff Lead:	BOYLE, T	Date Entered:	19890720
Last Entered:	19931112	First Response:	19890628
Spill Date:	19890628	Spill Time:	Not reported
Report Date:	19890628	Report Time:	10:15AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	___	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	LT.MELANSON		
Notif Tel:	Not reported		
Days/Close:	0		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

80
SSE
1/2-1
0.886 mi.
4677 ft.

SUNOCO SERVICE STATION
600 MAIN ST
WATERTOWN, MA 02172

LUST **S100362432**
RELEASE **N/A**

Relative:
Lower

LUST:

Facility:

Actual:
71 ft.

Facility ID: 3-0004016
Facility Status: Release Action Outcome
Status Date: 06/28/2005
Source Type: UST
Release Town: WATERTOWN
Notification Date: 07/15/1992
Category: NONE
Associated ID: Not reported
Phase: PHASE V
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: PETROLEUM
Quantity: Not reported

Location:

Location Type: GASSTATION

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/09/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/07/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2003
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

SUNOCO SERVICE STATION (Continued)

S100362432

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 01/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 08/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNOCO SERVICE STATION (Continued)

S100362432

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0004016
Primary ID: Not reported
Official City: WATERTOWN
Notification: 07/15/1992
Category: NONE
Facility Status: Response Action Outcome
Status Date: 06/28/2005
Phase: PHASE V
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/09/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/07/2004
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

SUNOCO SERVICE STATION (Continued)

S100362432

reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 01/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 08/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNOCO SERVICE STATION (Continued)

S100362432

Action Stat: Transmittal Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/09/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 10/19/2004
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

SUNOCO SERVICE STATION (Continued)

S100362432

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/07/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 01/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 01/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/21/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 08/20/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNOCO SERVICE STATION (Continued)

S100362432

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

81
East
1/2-1
0.888 mi.
4690 ft.

LENNY'S SERVICE CENTER
768 PLEASANT ST
BELMONT, MA 02478

LUST **U001004311**
RELEASE **N/A**
UST

Relative:
Lower

LUST:

Facility:

Actual:
89 ft.

Facility ID: 3-0004762
Facility Status: Release Action Outcome
Status Date: 08/11/1997
Source Type: UST
Release Town: BELMONT
Notification Date: 08/05/1993
Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN
Quantity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LENNY'S SERVICE CENTER (Continued)

U001004311

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/11/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/05/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/05/1993
Response Action Outcome: Not reported

Release:
Facility ID: 3-0004762
Primary ID: Not reported
Official City: BELMONT
Notification: 08/05/1993
Category: NONE
Facility Status: Response Action Outcome
Status Date: 08/11/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/11/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/05/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/05/1993
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: GASSTATION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LENNY'S SERVICE CENTER (Continued)

U001004311

Source:

Source Type: UST

Action:

Action Type: TREGS
Action Stat: RAOEQ
Action Date: 08/11/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/05/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 08/05/1993
Response Action Outcome: Not reported

UST:

Facility ID: 933

Facility:

Owner Id: 9567
Owner: LVF CORP
Owner Address: 768 PLEASANT ST
Owner City,St,Zip: BELMONT, MA 02478
Telephone: (617) 484-9660
Description: Gas Station
Fire Dept. ID: 17026
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 5000
Contents: Gasoline

Tank ID: 2
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LENNY'S SERVICE CENTER (Continued)

U001004311

Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 5000
Contents: Gasoline

Tank ID: 3
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 5000
Contents: Gasoline

Tank ID: 4
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 5000
Contents: Gasoline

Tank ID: 5
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Waste Oil

Tank ID: 6
Tank Status: In Use

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LENNY'S SERVICE CENTER (Continued)

U001004311

Tank Useage: MV
Tank Material: Composite
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Serial Number: L375220
Aboveground: No
Capacity: 12000
Contents: Gasoline

Tank ID: 7
Tank Status: In Use
Tank Useage: MV
Tank Material: Composite
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Serial Number: L375191
Aboveground: No
Capacity: 8000
Contents: Gasoline

P82
SE
1/2-1
0.916 mi.
4834 ft.

27 CAREY AVE
WATERTOWN, MA
Site 1 of 2 in cluster P

LUST S102967347
RELEASE N/A
LEAD

Relative:
Lower

LUST:

Facility:

Actual:
115 ft.

Facility ID: 3-0015600
Facility Status: Release Action Outcome
Status Date: 02/04/1998
Source Type: UST
Release Town: WATERTOWN
Notification Date: 10/07/1997
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspsn Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: #2 FUEL OIL
Quantity: 245 parts per million
Chemical: FUEL OIL #2
Quantity: 245 parts per million

Location:

Location Type: RESIDENTIAL

Source:

Source Type: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102967347

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/04/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/07/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/07/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0015600
Primary ID: Not reported
Official City: WATERTOWN
Notification: 10/07/1997
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 02/04/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/04/1998
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

(Continued)

S102967347

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/07/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/07/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 245 parts per million
Chemical: FUEL OIL #2
Quantity: 245 parts per million

Location:
Location Type: RESIDENTIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/04/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/05/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102967347

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 10/30/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 10/07/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 10/07/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LEAD:

Community: Watertown
Unit: G3
Inspector Name: Ron Albert
Inspector License Number: 1704
Activity Type: INSPECT
Activity Date: 9/19/2002
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Watertown
Unit: 7
Inspector Name: Ron Albert
Inspector License Number: 1704
Activity Type: COMPLIANCE
Activity Date: 9/19/2002
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Watertown
Unit: 7
Inspector Name: Ron Albert
Inspector License Number: 1704
Activity Type: INSPECT
Activity Date: 9/19/2002
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Watertown
Unit: G3
Inspector Name: Ron Albert
Inspector License Number: 1704

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102967347

Activity Type: COMPLIANCE
Activity Date: 9/19/2002
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

83
SSE
1/2-1
0.919 mi.
4850 ft.

NO LOCATION AID
14 NASH ST
WATERTOWN, MA 02472

RELEASE
LAST S107517220
N/A

Relative:
Lower

Release:

Facility ID: 3-0025396
Primary ID: Not reported
Official City: WATERTOWN
Notification: 11/13/2005
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 09/11/2006
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Actual:
55 ft.

Action:

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S107517220

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 01/19/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/13/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/13/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/2005

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)

S107517220

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 11/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 200 gallons
Chemical: FUEL OIL #2
Quantity: 180 gallons

Location:
Location Type: RESIDENTIAL

Source:
Source Type: AST

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S107517220

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 01/19/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/13/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/13/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 11/15/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/2005

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)

S107517220

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 11/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LAST:

Facility ID: 3-0025396
Source Type: AST
Release Town: WATERTOWN
Notification Date: 11/13/2005
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 09/11/2006
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: #2 FUEL OIL
Quantity: 200 gallons
Chemical: FUEL OIL #2
Quantity: 180 gallons

Location:
Location Type: RESIDENTIAL

Source:
Source Type: AST

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S107517220

Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/20/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 01/19/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 11/15/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 11/15/2005
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)

S107517220

Action Type: Notice of Responsibility
 Action Stat: FLDISS
 Action Date: 11/15/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
 Action Stat: REPORT
 Action Date: 11/13/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
 Action Stat: FLDD1A
 Action Date: 11/13/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
 Action Stat: Oral Approval of Plan
 Action Date: 11/13/2005
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

P84
SE
1/2-1
0.924 mi.
4878 ft.

24 CAREY AVE
REVERE, MA
Site 2 of 2 in cluster P

SHWS **S102507438**
RELEASE **N/A**
LEAD

Relative:
Lower

SHWS:
 Facility ID: 3-0014654
 Release Town: REVERE
 Notification Date: 12/21/1996
 Category: TWO HR
 Associated ID: Not reported
Compliance Status: Release Action Outcome
 Status Date: 09/04/1997
 Phase: Not reported
 Response Action Outcome Class: Not reported
 Oil Or Haz Material: Not reported

Actual:
113 ft.

Chemical:
 Chemical: #2 FUEL OIL
 Quantity: 50 gallons
 Chemical: #2 FUEL OIL
 Quantity: Not reported

Location:
 Location Type: RESIDENTIAL

Source:
 Source Type: PIPE

Action:
 Action Type: Response Action Outcome
 Action Stat: RAO Statement Received
 Action Date: 09/04/1997
 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

(Continued)

S102507438

reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 04/08/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/15/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102507438

Action Stat: REPORT
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0014654
Primary ID: Not reported
Official City: REVERE
Notification: 12/21/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 09/04/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102507438

Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 04/08/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/15/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 12/21/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical: #2 FUEL OIL
Quantity: 50 gallons
Chemical: #2 FUEL OIL
Quantity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102507438

Location:
Location Type: RESIDENTIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 06/09/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 05/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 04/08/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S102507438

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 01/15/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 12/21/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLFLD

Action Date: 12/21/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 12/21/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LEAD:

Community: Revere

Unit: 2

Inspector Name: Stephen Smith

Inspector License Number: 1599

Activity Type: INSPECT

Activity Date: 9/11/1991

Start Work Date: Not reported

Activity Descriptions: Comprehensive Initial Inspection

Outcomes: Hazards Found

85
SE
1/2-1
0.926 mi.
4891 ft.

PROPERTY
249 LEXINGTON ST
WATERTOWN, MA 02172

SHWS S100829925
RELEASE N/A

Relative:
Lower

SHWS:

Facility ID: 3-0004323

Release Town: WATERTOWN

Notification Date: 07/15/1993

Category: NONE

Associated ID: Not reported

Compliance Status: Release Action Outcome

Status Date: 07/29/1997

Phase: Not reported

Response Action Outcome Class: Not reported

Oil Or Haz Material: Not reported

Actual:
117 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100829925

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0004323
Primary ID: Not reported
Official City: WATERTOWN
Notification: 07/15/1993
Category: NONE
Facility Status: Response Action Outcome
Status Date: 07/29/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S100829925

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

86
SW
1/2-1
0.954 mi.
5035 ft.

RESIDENCE
73 ELLISON PARK
WALTHAM, MA 02452

SHWS S106953926
RELEASE N/A

Relative:
Lower

SHWS:

Facility ID: 3-0021082
Release Town: WALTHAM
Notification Date: 09/14/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 07/12/2007
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
55 ft.

Chemical:

Chemical: FUEL OIL #2
Quantity: 290 gallons
Chemical: FUEL OIL #2
Quantity: 300 gallons

Location:

Location Type: RESIDNTIAL

Source:

Source Type: PIPE

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: RMRFIN
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/28/2005
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

RESIDENCE (Continued)

S106953926

Action Type: Release
Action Stat: REPORT
Action Date: 07/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Status Report Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/15/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 05/21/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 04/08/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Modified, Revised, or Updated Plan Received

Action Date: 03/19/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 12/29/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 11/12/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Modified, Revised, or Updated Plan Received

Action Date: 11/12/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Completion Statement Received

Action Date: 07/08/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 07/08/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Status Report Received

Action Date: 02/03/2003

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

RESIDENCE (Continued)

S106953926

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 12/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 12/07/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/13/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 10/23/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/04/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/20/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0021082
Primary ID: Not reported
Official City: WALTHAM
Notification: 09/14/2001
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 07/12/2007
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: RMRFIN
Action Date: 06/22/2007

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

RESIDENCE (Continued)

S106953926

reduced to background.

Action Type: Phase IV
Action Stat: Status Report Received
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 07/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Status Report Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/15/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004
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

RESIDENCE (Continued)

S106953926

reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/08/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 03/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 12/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/08/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/08/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Stat: Status Report Received
Action Date: 02/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 12/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 12/07/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/13/2001
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

RESIDENCE (Continued)

S106953926

reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 10/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/04/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: FUEL OIL #2
Quantity: 290 gallons
Chemical: FUEL OIL #2
Quantity: 300 gallons

Location:
Location Type: RESIDENTIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Stat: RMRFIN
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Status Report Received
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINI
Action Date: 09/07/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/15/2006
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

RESIDENCE (Continued)

S106953926

reduced to background.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 07/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/13/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Status Report Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 02/14/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 01/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/15/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/08/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 03/19/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 12/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/08/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/08/2003
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

RESIDENCE (Continued)

S106953926

reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 12/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 12/07/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S106953926

Action Stat: REPORT
Action Date: 11/13/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 10/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/04/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/04/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

87
ESE
1/2-1
0.985 mi.
5202 ft.

FRANETTE CLEANERS
399 TRAPELO RD
BELMONT, MA 02478

LUST S108476780
RELEASE N/A

Relative:
Lower

LUST:

Facility:

Actual:
68 ft.

Facility ID: 3-0026701
Facility Status: Release Action Outcome
Status Date: 12/04/2008
Source Type: UST
Release Town: BELMONT
Notification Date: 03/16/2007
Category: 120 DY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANETTE CLEANERS (Continued)

S108476780

Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 4970 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 26900 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 40200 milligrams per kilogram
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 1870 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRFIN
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 09/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANETTE CLEANERS (Continued)

S108476780

Action Stat: Tier 2 Classification
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 01/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/19/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/17/2007
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

FRANETTE CLEANERS (Continued)

S108476780

reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 3-0026701
Primary ID: Not reported
Official City: BELMONT
Notification: 03/16/2007
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 12/04/2008
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRFIN
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINT
Action Date: 09/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/05/2008
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

FRANETTE CLEANERS (Continued)

S108476780

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ALSENT
Action Date: 01/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/19/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/05/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANETTE CLEANERS (Continued)

S108476780

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/17/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 4970 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 26900 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 40200 milligrams per kilogram
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 1870 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRFIN
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: RMRINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANETTE CLEANERS (Continued)

S108476780

Action Date: 09/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/05/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 03/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 03/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 03/04/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ALSNT
Action Date: 01/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/19/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/16/2007
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

FRANETTE CLEANERS (Continued)

S108476780

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 11/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 11/05/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/17/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

88
NE
1/2-1
0.993 mi.
5243 ft.

BELMONT COUNTRY CLUB
36 COUNTRY CLUB LN
BELMONT, MA 02478

SHWS **S109489300**
LUST **N/A**
RELEASE

Relative:
Higher

SHWS:
Facility ID: 3-0028258
Release Town: BELMONT
Notification Date: 01/05/2009
Category: TWO HR
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 01/05/2009
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Actual:
201 ft.

Chemical:
Chemical: VEGETABLE OIL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: 10 gallons

Location:
Location Type: COMMERCIAL

Source:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Source Type:	PIPE
Source Type:	UST
Action:	
Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/09/2009
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	03/06/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	03/06/2009
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Stat:	Transmittal Received
Action Date:	03/06/2009
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	03/04/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Oral Approval of a Modified Plan
Action Date:	03/04/2009
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/26/2009
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FLDD1A
Action Date:	01/06/2009
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	01/06/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Oral Approval of a Modified Plan
Action Date:	01/06/2009
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	01/06/2009
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Action Type: Release
Action Stat: REPORT
Action Date: 01/05/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/05/2009
Response Action Outcome: Not reported

LUST:

Facility:

Facility ID: 3-0028258
Facility Status: Unclassified
Status Date: 01/05/2009
Source Type: UST
Release Town: BELMONT
Notification Date: 01/05/2009
Category: TWO HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:

Chemical: VEGETABLE OIL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: 10 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: PIPE
Source Type: UST

Action:

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 03/09/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: RNFE
Action Stat: Transmittal Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/26/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 01/05/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/05/2009
Response Action Outcome: Not reported

Release:

Facility ID: 3-0028258
Primary ID: Not reported
Official City: BELMONT
Notification: 01/05/2009
Category: TWO HR
Facility Status: Unclassified Waste Site
Status Date: 01/05/2009
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Action:

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 03/09/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: RNFE
Action Stat: Transmittal Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/26/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Release

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Action Stat: REPORT
Action Date: 01/05/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/05/2009
Response Action Outcome: Not reported

Chemical:
Chemical: VEGETABLE OIL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: 10 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: PIPE
Source Type: UST

Action:
Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 03/09/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: RNFE
Action Stat: Transmittal Received
Action Date: 03/06/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 03/04/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/26/2009
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELMONT COUNTRY CLUB (Continued)

S109489300

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 01/06/2009
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 01/05/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/05/2009
Response Action Outcome: Not reported

89
SE
1/2-1
0.998 mi.
5271 ft.

42-22-34 71-11-28
185-187 EDENFIELD RD
WATERTOWN, MA

SHWS S104774298
RELEASE N/A

Relative:
Lower

SHWS:
Facility ID: 3-0019958
Release Town: WATERTOWN
Notification Date: 09/20/2000
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 09/20/2000
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: NAPHTHALENE
Quantity: 45 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

42-22-34 71-11-28 (Continued)

S104774298

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 3-0019958
Primary ID: Not reported
Official City: WATERTOWN
Notification: 09/20/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 09/20/2000
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: NAPHTHALENE
Quantity: 45 milligrams per kilogram

Location:

Location Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

42-22-34 71-11-28 (Continued)

S104774298

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 09/20/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 09/20/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 09/20/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BELMONT	1004717360	WINNBROOK SERVICE CENTER	7 CHANNIN RD	02178	RCRA-CESQG
BELMONT	S100828197	PROPERTY	30 CREELY RD	02178	RELEASE, LAST
BELMONT	S102085985	FMR MDC RINK	LAKE ST RTE 2	02178	RELEASE, LUST
BELMONT	1010415456	ROBINSON AUTO BODY INC	800 PLEASANT ST	02178	RCRA-NonGen
BELMONT	S100828199	STAR MARKET	TRAPELO RD	02178	RELEASE, SHWS
BELMONT	1010415443	FRANETTE CLEANSERS INC	399 TRAPELO RD	02178	RCRA-CESQG
BELMONT	S102403464	BELMONT VOLKSWAGON	263 270 TRAPELO RD	02178	RELEASE, LUST
LEXINGTON	S102086467	NO LOCATION AID	RTE 128 S	02173	RELEASE, SHWS
LEXINGTON	S103811900	UTILITY POLE #6	BETWEEN 12 / 14 FLINTLOCK RD	02173	RELEASE, SHWS
LEXINGTON	S100041356	HANSCOM AFB	GRENIER RD BLDG 1120C	02173	RELEASE, LUST
LEXINGTON	S105043398	AVALON APT COMPLEX	2200 LEXINGTON RIDGE DR NEAR	02173	RELEASE, SHWS
LEXINGTON	S106343967	CAMBRIDGE RESERVOIR	LINCOLN ST	02173	RELEASE, SHWS
LEXINGTON	1000304188	KILN BROOK V	MAGUIRE RD	02173	RELEASE, SHWS
LEXINGTON	S102084949	NO LOCATION AID	MARRIET RD	02173	RELEASE, LUST
LEXINGTON	S106775832	DIAMOND JUNIOR HIGH	SEDGE RD	02173	RELEASE, SHWS
LEXINGTON	S103811871	MA HWY GARAGE	WATERTOWN ST	02173	RELEASE, SHWS
WALTHAM	S103546094	EXIT 28	RTE 128 SOUTH BOUND	02452	RELEASE, SHWS
WALTHAM	S104546145	RTE 20 RAMP	RTE 128 S	02154	RELEASE, SHWS
WALTHAM	S102967455	BOSTON AND MAINE RAILROAD	RTE 128 NORTHBOUND	02154	RELEASE, SHWS
WALTHAM	S103811777	@ RTE 128	RTE 20 E		RELEASE, SHWS
WALTHAM	S105521892	MAIN ST SCHOOL ST	35 TO 39 REAR SPRING ST	02452	RELEASE, SHWS
WALTHAM	S108476975	EXIT 27B	RTE 95 SOUTH AT EXIT 27B	02452	RELEASE, SHWS
WALTHAM	S103043503	NO LOCATION AID	230 3RD AVE / 9 HILLSIDE DR	02154	RELEASE, SHWS
WALTHAM	S104562593	FITZGERALD SCHOOL	BEAL RD		RELEASE, LUST
WALTHAM	S103811414	POLE #18/IN FRONT OF 179 BEAR HILL RD	BEAR HILL RD	02154	RELEASE, SHWS
WALTHAM	1004717709	BETAGEN CORP	100 BEAVER ST	02154	FINDS, RCRA-CESQG
WALTHAM	S106132253	NO LOCATION AID	BISHOP FOREST RD	02154	RELEASE, SHWS
WALTHAM	S102967377	NO LOCATION AID	CHARLES RIV @ PROSPECT ST		RELEASE, SHWS
WALTHAM	1004715281	D+R PRODUCTS CO INC	34 EDGE HILL RD	02154	FINDS, RCRA-NonGen
WALTHAM	S103811525	CHARLES RIVER	ELM ST		RELEASE, SHWS
WALTHAM	S105810548	EXXON TERMINAL	JONES RD STONY BRK		RELEASE, SHWS
WALTHAM	S100829887	QUALITY TRUCKING	271 LEE BURBANK HWY	02154	RELEASE, SHWS
WALTHAM	1003862431	OLD COLONY PETROLEUM	LEXINGTON ST.	02154	CERC-NFRAP
WALTHAM	S108858924	LAKE ST	LEXINGTON ST		RELEASE, SHWS
WALTHAM	S105199996	INTERSECTION OF TRAPELO RD	LEXINGTON ST	02154	RELEASE, SHWS
WALTHAM	S101034369	POLE 56	LINCOLN ST	02154	RELEASE, SHWS
WALTHAM	S105810543	BOSTON EDISON CO	MAIN STREET SPRING ST	02154	RELEASE, SHWS
WALTHAM	1004717535	DONS SERVICE CENTER	825 MAIN ST	02154	FINDS, RCRA-CESQG
WALTHAM	1010012386	JOSEPH SMITH COMMUNITY HEALTH CENTER	564 MAIN ST	02452	FINDS
WALTHAM	S100043832	ARCO STATION 11337	487 MAIN ST LYMAN STS	02154	RELEASE, LUST, INST CONTROL
WALTHAM	S109546077	776 MOODY ST	MOODY STREET AT WASHINGTON AVE		RELEASE, SHWS
WALTHAM	S103811791	NO LOCATION AID	MOODY ST		RELEASE, SHWS
WALTHAM	S105735647	NO LOCATION AID	95 NORTHBOUND		RELEASE, SHWS

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WALTHAM	S105199911	NO LOCATION AID	21 OAKLEY LN NEAR	02154	RELEASE, SHWS
WALTHAM	S104179966	AIR FORCE FACILITY PROSPECT HILL PARK	OFF TOTTEN POND RD	02154	RELEASE, SHWS
WALTHAM	1004715907	DONOVANS ALIGHMENT	64 PINE ST	02154	FINDS, RCRA-CESQG
WALTHAM	S103546162	NEAR 27 SCHOOL AVE	SCHOOL AVE		RELEASE, SHWS
WALTHAM	S105199827	CTI CRYOGENICS	266 SECOND AVE	02154	RELEASE, LUST
WALTHAM	S104482634	END OF SIBLEY RD	SIBLEY RD		RELEASE, SHWS
WALTHAM	S105125068	FORMER FULLER HOME	SOUTH ST	02452	RELEASE, SHWS
WALTHAM	S100829873	INCIDENT	SUMMER ST	02154	RELEASE, SHWS
WALTHAM	1004717478	HULLINC LITTLE FOREIGN CAR GARAGE	50 THAYER RD	02154	FINDS, RCRA-CESQG
WALTHAM	1001232405	AGT VALVE J11B	TRAPELO RD	02452	FINDS, RCRA-SQG
WALTHAM	93425670	WALTHAM FEDERAL CENTER, 424 TRAPELO RD.	WALTHAM FEDERAL CENTER, 424 TRAPELO RD.	02154	ERNS
WALTHAM	S108640696	NO LOCATION AID	130-132 WASHINGTON ST		RELEASE, SHWS
WATERTOWN	S103811930	NO LOCATION AID	60 TO 70 NORTH BEACON ST	02172	RELEASE, LUST
WATERTOWN	1003862442	SAWINS AND WILLIAMS POND	ARLINGTON ST COOLIDGE AVE	02172	RELEASE, SHWS, CERC-NFRAP
WATERTOWN	S101018045		ARSENAL ST.	02172	RELEASE, SHWS, SPILLS
WATERTOWN	S103812058	NO LOCATION AID	14 ARSENAL 11 TO 13 MT AUBURN	02172	RELEASE, LUST
WATERTOWN	S103812005	FMR EXXON	14 ARSENAL 11 TO 13 MT AUBURN	02172	RELEASE, SHWS
WATERTOWN	S103546180	FMR EXXON SERVICE STATION	14 ARSENAL 11 TO 13 MT AUBURN	02172	RELEASE, SHWS
WATERTOWN	S100831471	WATERTOWN SQUARE PLAZA	49-59 MT AUBURN ST	02172	RELEASE, LUST, SHWS
WATERTOWN	S100362427	PORT OIL SERVICE STATION	33 MT AUBURN ST	02172	RELEASE, LUST, SHWS
WATERTOWN	S105199345	EXXON STATION FMR	11-13 MT AUBURN ST	02172	RELEASE, LUST, INST CONTROL
WATERTOWN	S103043464	42 AND 47 MAIN ST	MAIN ST AT BECO MANHOLE 3706	02172	RELEASE, SHWS
WATERTOWN	S106030081	AT INTERSECTION OF LONGFELLOW RD	MAIN ST	02172	RELEASE, SHWS
WATERTOWN	S103811920	ROUTE 20	MAIN / MIDDLE @ WATERTOWN SQ	02172	RELEASE, SHWS
WATERTOWN	S106863339	NSTAR UTILITY POLE # 90/42	NEAR 600 MAIN ST	02172	RELEASE, SHWS
WATERTOWN	S107405629	NSTAR UTILITY POLE # 316/4	NEAR 21 DWIGHT ST	02172	RELEASE, SHWS
WATERTOWN	1000273541	VAIL & MADDEN EXCAVATORS CO INC	70 PHILLIPS ST	02172	FINDS, RCRA-NonGen
WATERTOWN	1000486156	WATERTOWN LANDFILL (FORMER)	PLEASANT STREET	02172	CERCLIS, FINDS
WATERTOWN	1004716539	DIGITAL PRODUCTS INC	600 PLEASANT ST	02172	FINDS, RCRA-CESQG
WATERTOWN	1004716325	AMERICOLD	555 PLEASANT ST	02172	FINDS, RCRA-CESQG

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

Federal NPL site list

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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/27/2009
	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: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: N/A
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/27/2009
	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.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2009	Source: EPA
Date Data Arrived at EDR: 01/30/2009	Telephone: 703-412-9810
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/29/2009
Number of Days to Update: 101	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/16/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009	Source: EPA
Date Data Arrived at EDR: 04/02/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

Federal RCRA generators list

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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/31/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/22/2009	Telephone: 703-603-0695
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 03/30/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Varies

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: 12/31/2008	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/30/2009	Telephone: 202-267-2180
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 05/12/2009
Number of Days to Update: 109	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 04/21/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: 617-292-5990
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

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: 04/01/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/29/2009	Telephone: 617-292-5989
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 04/29/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Site Transition List

Sites within the Releases Database that have a UST listed as its source.

Date of Government Version: 04/21/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: 617-292-5990
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 04/21/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: 617-292-5500
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/03/2009	Source: EPA Region 10
Date Data Arrived at EDR: 03/04/2009	Telephone: 206-553-2857
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/15/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3372
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/17/2009
	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: 03/13/2009	Source: EPA Region 8
Date Data Arrived at EDR: 03/17/2009	Telephone: 303-312-6271
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/03/2008	Telephone: 913-551-7003
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 05/20/2009
Number of Days to Update: 20	Next Scheduled EDR Contact: 08/17/2009
	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: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-6597
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/17/2009
	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: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	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: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

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: 05/08/2009	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 05/12/2009	Telephone: 978-567-3715
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/12/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/10/2009
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 05/08/2009	Source: Department of Public Safety
Date Data Arrived at EDR: 05/12/2009	Telephone: 978-567-3715
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/12/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/10/2009
	Data Release Frequency: Quarterly

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).

Date of Government Version: 03/03/2009	Source: EPA Region 10
Date Data Arrived at EDR: 03/04/2009	Telephone: 206-553-2857
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

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: 12/15/2008	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3368
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

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: 03/13/2009	Source: EPA Region 8
Date Data Arrived at EDR: 03/17/2009	Telephone: 303-312-6137
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/17/2009
	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: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-7591
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

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: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 05/17/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/17/2009
	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)

Date of Government Version: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

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: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	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: 04/21/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: 617-292-5990
Date Made Active in Reports: 06/09/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/20/2009
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: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/14/2008	Telephone: 202-566-2777
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 05/20/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 04/07/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Varies

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: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

Local Land Records

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: 02/06/2009
Date Data Arrived at EDR: 03/20/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 43

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/16/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Annually

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 06/09/2009
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 05/05/2009
Next Scheduled EDR Contact: 08/03/2009
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
Date Data Arrived at EDR: 12/03/2003
Date Made Active in Reports: 12/31/2003
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 617-292-5720
Last EDR Contact: 12/03/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/23/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/27/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/05/2008	Telephone: 202-528-4285
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 03/30/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/27/2009	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/23/2009	Telephone: Varies
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 04/21/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: 703-416-0223
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 03/30/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 03/16/2009
Number of Days to Update: 1	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/19/2009	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/24/2009	Telephone: 303-231-5959
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 03/24/2009
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: Semi-Annually

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: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 02/29/2008	Telephone: 202-566-0250
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 04/09/2009
Number of Days to Update: 49	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/14/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 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: 03/16/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Quarterly

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: 03/16/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/15/2009
	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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 03/14/2008	Telephone: 202-564-4203
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 05/18/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 03/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/20/2009	Telephone: 202-564-5088
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 04/13/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/13/2009
	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: 02/26/2009	Source: EPA
Date Data Arrived at EDR: 05/20/2009	Telephone: 202-566-0500
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/04/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/02/2009	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/24/2009	Telephone: 301-415-7169
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 03/30/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Quarterly

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: 04/28/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2009	Telephone: 202-343-9775
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 04/29/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/27/2009
	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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 05/01/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 18

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Biennially

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 05/12/2009
Date Data Arrived at EDR: 05/13/2009
Date Made Active in Reports: 06/09/2009
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 05/11/2009
Next Scheduled EDR Contact: 08/10/2009
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: 08/01/2004
Date Data Arrived at EDR: 09/01/2004
Date Made Active in Reports: 10/01/2004
Number of Days to Update: 30

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Varies

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 05/14/2009
Date Data Arrived at EDR: 05/15/2009
Date Made Active in Reports: 06/09/2009
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 05/11/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD: Lead Inspection Database

The Massachusetts Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 06/30/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/11/2008
Number of Days to Update: 13

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Program
Telephone: 617-624-5757
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

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: 12/08/2008
Date Data Arrived at EDR: 12/09/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 97

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered 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: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 12/31/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/11/2008	Telephone: 860-424-3375
Date Made Active in Reports: 03/19/2009	Last EDR Contact: 03/13/2009
Number of Days to Update: 98	Next Scheduled EDR Contact: 06/08/2009
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: N/A
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 08/03/2009
	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: 01/27/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/25/2009	Telephone: 518-402-8651
Date Made Active in Reports: 03/12/2009	Last EDR Contact: 05/27/2009
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/11/2008	Telephone: N/A
Date Made Active in Reports: 10/02/2008	Last EDR Contact: 06/08/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2008	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/12/2009	Telephone: 401-222-2797
Date Made Active in Reports: 03/11/2009	Last EDR Contact: 03/16/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/31/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/09/2009	Telephone: 802-241-3443
Date Made Active in Reports: 05/20/2009	Last EDR Contact: 05/11/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/10/2009
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007

Date Data Arrived at EDR: 08/22/2008

Date Made Active in Reports: 09/08/2008

Number of Days to Update: 17

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 04/07/2009

Next Scheduled EDR Contact: 07/06/2009

Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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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, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FERNALD DEVELOPMENT CENTER
200 TRAPELO ROAD
WALTHAM, MA 02452

TARGET PROPERTY COORDINATES

Latitude (North):	42.39150 - 42° 23' 29.4"
Longitude (West):	71.2068 - 71° 12' 24.5"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	318353.4
UTM Y (Meters):	4695390.5
Elevation:	196 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42071-D2 LEXINGTON, MA
Most Recent Revision:	1985

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).

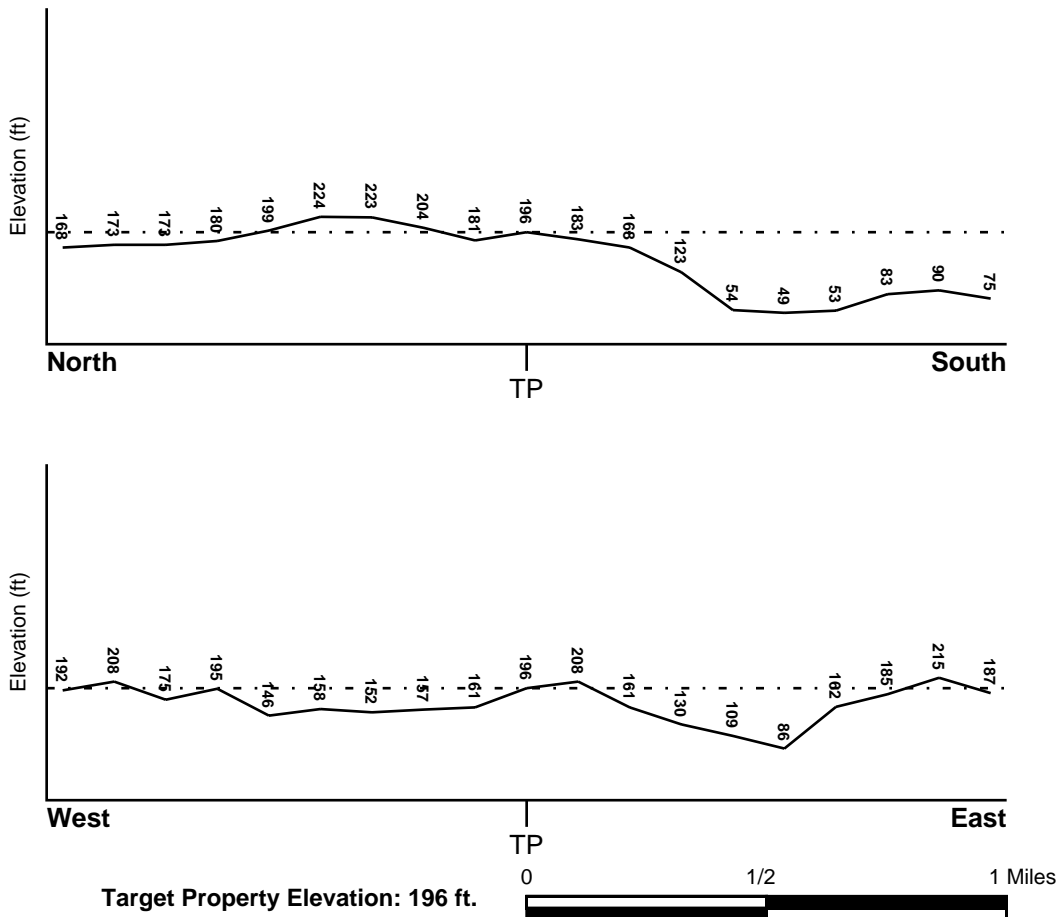
TOPOGRAPHIC INFORMATION

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 SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> MIDDLESEX, MA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2502220005B
Additional Panels in search area:	2501820001B 2502230001B

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> LEXINGTON	<u>NWI Electronic Data Coverage</u> 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:	Cambrian
Series:	Cambrian
Code:	Ce (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	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>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

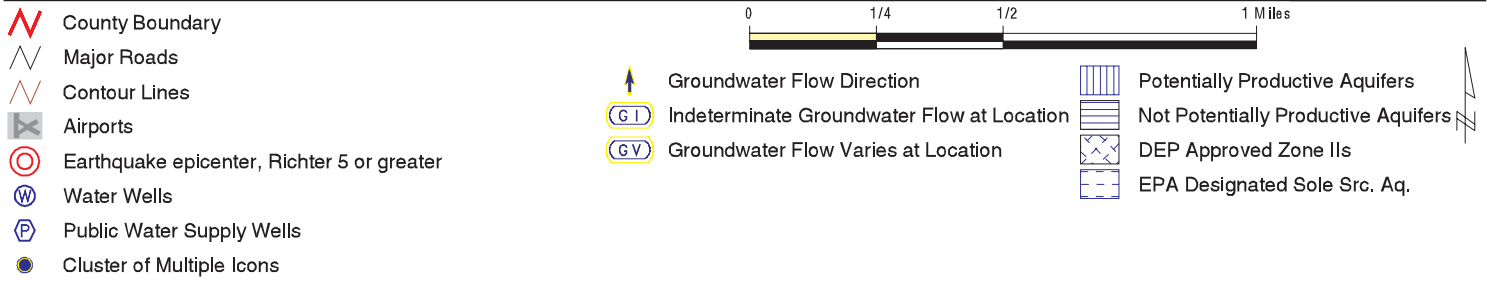
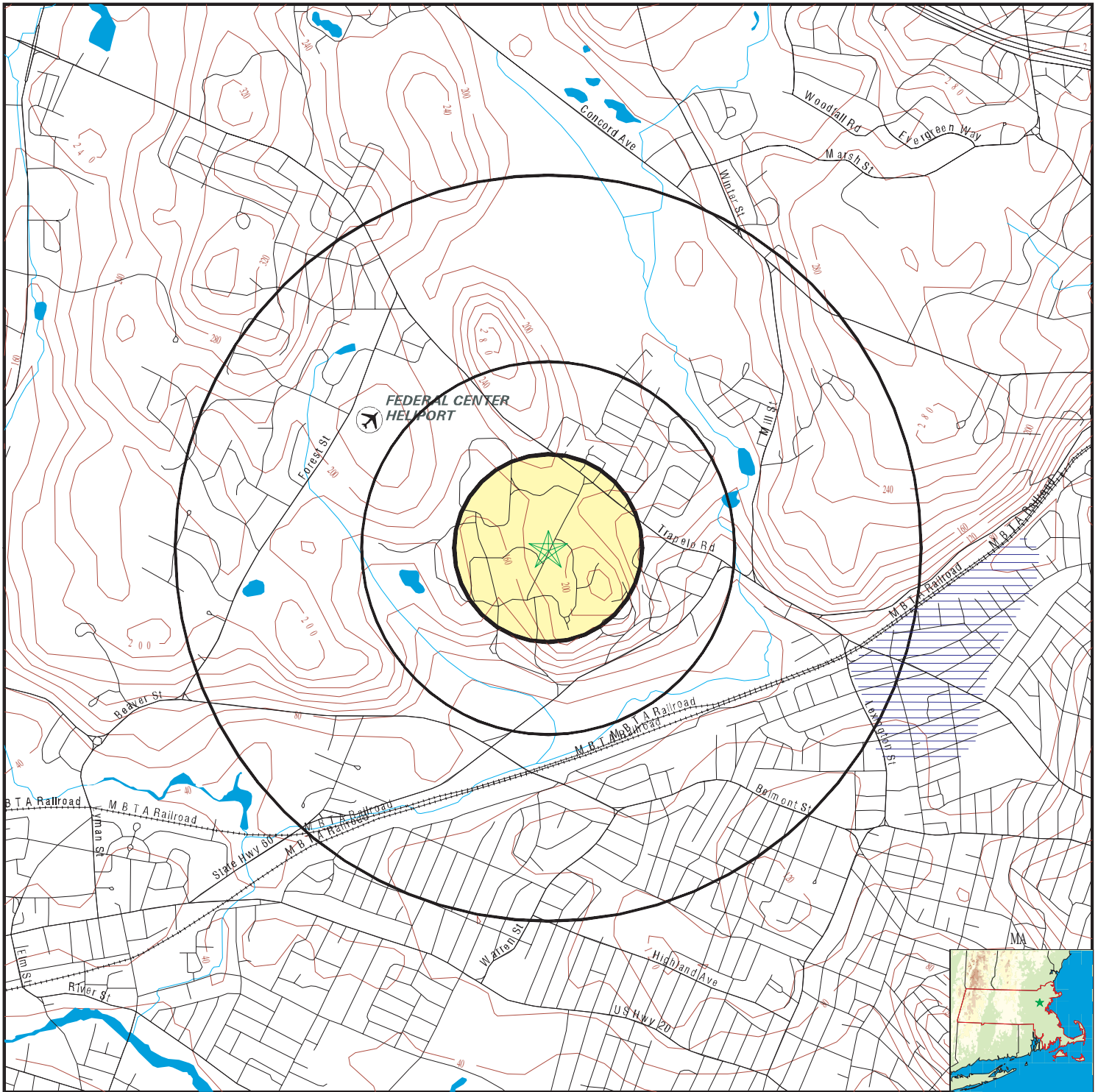
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2508314.2s



SITE NAME: Fernald Development Center
 ADDRESS: 200 Trapelo Road
 Waltham MA 02452
 LAT/LONG: 42.3915 / 71.2068

CLIENT: TechLaw, Inc.
 CONTACT: Melanie Littman
 INQUIRY #: 2508314.2s
 DATE: June 09, 2009 5:00 pm

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 MIDDLESEX COUNTY, MA

Number of sites tested: 341

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	3.515 pCi/L	79%	15%	6%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.210 pCi/L	74%	23%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Public Water Supply Database: 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.

OTHER STATE DATABASE INFORMATION

Areas of Critical Environmental Concern Datalayer: 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 Datalayer: 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 a EPA hydrogeologist.

Aquifers Datalayer: 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).

Non-Potential Drinking Water Source Areas: 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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

DEP Approved Zone IIs Datalayer: 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.

- 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.
- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.
- Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

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

STREET AND ADDRESS INFORMATION

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EXHIBIT C-2

EPA SAND Summary – Duffy Bros Construction Inc.

SUPPLEMENTAL INFORMATION

Duffy Brothers Construction, Inc., 411 Waverley Oaks Road (CERCLIS Site)



U.S. ENVIRONMENTAL PROTECTION AGENCY

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Site Type: **Site Awaiting NPL Decision (SAND)** [?](#)

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DUFFY BROS CONSTRUCTION INC

WALTHAM, Massachusetts

[Click to view map of site](#)

MIDDLESEX County

Street Address: 411 WAVERLY OAKS RD.

Zip Code: 02154

Congressional

District(s): 08

EPA ID #: MAD980916316

Site ID #: 0100844

Site Alias:

Description

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The Duffy Bros. Construction, Inc. (Duffy) property is located at 411 Waverly Oaks Road in Waltham, Middlesex County, Massachusetts, in a mixed industrial, commercial, and residential neighborhood. The 27-acre property is situated at the base of an east-facing hill slope and adjacent to wetlands and an on-site pond. The property is occupied by six buildings, paved parking areas, landscaped land, a pond, and associated wetlands.

The property was first occupied by greenhouses which were heated using coal. The property was reportedly owned and operated by Pierce Brothers Oil Company (Pierce). In the late 1920s, Pierce began using waste oil as an on-site fuel source. The oil was stored on site in aboveground storage tanks (ASTs) and underground storage tanks (USTs). The waste oil came from various sources including local townships; private generators, such as garages and repair shops; and the U.S. Navy. On-site oil washing plants were installed in the 1950s and 1960s and were used to clean the oil by removing solids, water, or other impurities. Oil was also stored in a 60-foot (ft) by 40-ft excavated lagoon located at the southeastern end of the existing office building. Specific practices for storage and handling of the waste oil on site have not been documented in detail. It is apparent, however, that spills, leaks, and other events resulted in the introduction of waste oil into the soil and groundwater beneath the property.

In 1973, the Pierce property was sold to Duffy, at which time all oil storage

operations ceased. Duffy then began redevelopment of the property; the property is currently used for product storage and distribution. Since 1971, an estimated 33 monitoring wells, 61 soil borings, 20 test pits, and five recovery wells have been installed on the property as part of investigations pursuant to the Massachusetts Contingency Plan (MCP). Extensive analytical data consistently indicate the presence of petroleum-related and certain chlorinated volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals in soil, groundwater, sediment, and surface water samples collected on the property.

Portions of the cities of Arlington, Belmont, Boston, Cambridge, Lexington, Medford, Newton, Waltham, Watertown, Weston, Winchester, and Somerville, containing an estimated total population of 308,376 people, are located within 4-radial miles of the property. No public or private groundwater sources of drinking water are present within 4-radial miles of the property. To inhibit oil migration through groundwater, Duffy developed and implemented a mitigation plan in which Separate Phase Hydrocarbons (SPH) collected from five recovery wells and an oil recovery trench pass through a pump and remediation system. The recovered SPH is stored in ASTs located in a remediation building. The remediated SPH is periodically shipped off site to an appropriate disposal facility.

The Massachusetts Department of Environmental Protection (MA DEP) is currently monitoring the continuing remediation effort conducted by GZA GeoEnvironmental, Inc. (GZA) on the property. In accordance with the conditions of the Short Term Measure (STM) approved by MA DEP on 7 April 1994, GZA provides monthly monitoring reports to MA DEP summarizing the status of the STM. To date the groundwater elevation and capture zone analysis indicates that the STM is effectively capturing and recovering groundwater from the majority of the areas impacted by SPH on the southern portion of the property. Treatment system effluent monitoring results reveal that the requirements of the Emergency National Pollution Discharge Effluent System (NPDES) Permit Exclusion are generally met every month.

SAND Summary Last Updated: 10 August 2000

The probable points of entry to the 15-mile downstream surface water pathway are along the adjacent wetland and on-site pond. The wetland and pond drain into an unnamed brook, and ultimately, into Beaver Brook. Beaver Brook flows southwest, eventually joining the Charles River approximately 1 mile south of the Duffy property. On-site catchbasins collect local runoff from the paved parking areas and discharge to the on-site pond and wetlands. An oil/water separator, located on the southern portion of the property, also drains to the on-site pond. Analytical data indicate that the on-site pond and unnamed stream have been impacted by on-site activities. There are no surface water drinking water intake sources along the 15-mile downstream pathway. Several threatened or endangered species and 0.5 miles of wetlands frontage occur along the 15-mile downstream pathway.

An estimated 900 employees work on the Duffy property. The nearest residence to the property is located approximately 500 feet upgradient at 440 Waverly Oaks Road. No school or day-care facilities are located within 200

Duffy Bros. Construction, Inc. CERCLIS No.: MAD980916316
Waltham, Massachusetts Site ID: 0100844

feet of an area of observed contamination. It is unknown if on-site workers have been exposed to contaminated soils. Dispersal of contaminants to ambient air is not considered a significant migration route.

A Stage II Environmental Risk Characterization, and the Short Term Measure are currently being prepared by GZA in accordance with MA DEP directives.

Current Status

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Photos

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Links to Other Information

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[Disclaimer](#) [Instructions about PDF](#) 

Public Record Locations

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EPA New England Records Center, One Congress Street, Boston, MA 02114 (617) 918-1440

Contacts

[\[Back to Top\]](#)

Site Assessment Manager	Nancy Smith
Address:	One Congress Street, Suite 1100 (HBS) Boston, MA 02114-2023
Phone #:	617-918-1436
E-Mail Address:	smith.nancya@epa.gov

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Last updated on Monday, July 15th, 2002
Fact Sheet accessed from: <http://www.epa.gov/region1/superfund/sites>

EXHIBIT C-3

RTN 3-0011878, Rear Gate Off Waverly Oaks Rd

Site Information			
Site Number:	3-0011878	Category:	TWO HR
Site Name:	REAR GATE OFF WAVERLY OAKS RD	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	1/23/1995
Town:	WALTHAM	Phase:	
Zipcode:	02154-0000	RAO class:	
Official notification date:	11/21/1994	Location type:	SCHOOL
Initial status date:	11/21/1995	Source:	PIPE

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	1/23/1995
RAO class:	A1
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	1/23/1995
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	APORAL - Oral Approval of Plan or Action
Submittal Date:	11/21/1994
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	11/21/1994
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
#6 FUEL OIL	30	GAL

LSPs	
LSP#	Name
8959	DELTUFO, ANTHONY M

RAO Detail			
Class	Method	GW Category	Soil Category
A1	N		
A1	N		



Imagery ©2009 DigitalGlobe. GeoEye, MassGIS. Commonwealth of Massachusetts

RESPONSE ACTION OUTCOME STATEMENT

**FERNALD SCHOOL
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS 02154**

DEP Release Tracking No.: 3-11878

Prepared for:

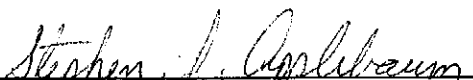
**Quality Fuel and Transportation, Inc.
271 Lee Burbank Highway
Revere, Massachusetts 02067**

Prepared by:

**Clean Harbors Environmental Services, Inc.
325 Wood Road
Braintree, MA 02184**

CHES Job No. SB-4194

January 11, 1995



**Stephen J. Applebaum
Sr. Project Geologist**



**Anthony M. DelTufo, P.E., L.S.P.
Sr. Project Manager**

SEP 23 1995

RESPONSE ACTION OUTCOME STATEMENT

**FERNALD SCHOOL
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS 02154**

**DEP Release Tracking No.: 3-11878
CHES Job No. -SB-4194**

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Figure 1 Site Sketch

APPENDICES

Appendix A Oil and Hazardous Material Release Notification Form

Appendix B RAO Transmittal Form

Appendix C Uniform Hazardous Waste Manifest

Appendix D Public Notice



RESPONSE ACTION OUTCOME STATEMENT

FERNALD SCHOOL
200 TRAPELO ROAD
WALTHAM MASSACHUSETTS

Release Tracking No.: 3-11878
CHES Job # SB-4194

Introduction

On November 21, 1994, at approximately 2:00 PM, approximately 30 gallons of #6 fuel oil were released during the filling of one of three 20,000-gallon underground storage tanks by Quality Fuel and Transportation, Inc. (Quality) at the heating plant servicing the Fernald School located at 200 Trapelo Road in Waltham, Massachusetts. The release occurred to the paved area near the tank fill port and impacted an adjacent stream. Following initial response action performed on November 21 and subsequent actions performed on December 17, Clean Harbors Environmental Services, Inc. (CHES) has prepared this Response Action Outcome (RAO) Statement to document the clean-up activities. The Oil and Hazardous Materials Release Notification Form is presented in Appendix A and the RAO Transmittal Form is presented in Appendix B. A description of the release and subsequent remedial activities is presented below.

Response Actions

The release was located west of the heating plant (accessed via Waverley Oaks Road) which is on the southern portion of the Fernald School grounds. Immediately west of the heating plant is an un-named stream at an elevation approximately eight feet below that of the release area and which flows into a wetland located approximately 400 feet south of the heating plant. Figure 1 shows the details of the release area.

The release occurred when a clogged vent pipe associated with the western-most oil tank created back pressure and forced oil from the fill port of the tank. The oil flowed northward along the ground, and reportedly less than 10 gallons spilled over the retaining wall (the top of which is at grade) and impacted the un-named stream. Immediately after the release was noticed, representatives of Quality and the Fernald School placed absorbant boom on the ground and deployed boom across the stream at several locations to contain any oil that may get into the stream. Because the air temperature was cold on that day and the oil was highly viscous, only a relatively small amount of oil reached the water surface.

The Department of Environmental Protection (DEP) was notified of the release at approximately 4:00 PM on November 21, 1994 by a representative of the Fernald School, and Mr. Victor Fonkem of the DEP arrived on site at approximately 5:30 PM. CHES was contacted by Quality to remediate the spill at 4:00 PM and arrived on site at approximately 5:45 PM. The Immediate Response Actions (IRAs) performed by CHES and approved by the DEP included drumming the

absorbant boom laid on the ground previously and applying Speedi-Dri to absorb the residual oil on the pavement surface. The Speedi-Dri was worked into the oil, removed from the pavement and then placed in 55-gallon drums. Oil along the brook was removed using absorbant materials and the booms across the brook were checked and repositioned as necessary to contain any oil that may migrate into the stream. The retaining wall along the brook was wiped down to remove oil that had flowed along it. The spent absorbant material was placed in 55-gallon drums.

On November 22, CHES returned to the site and replaced the boom along the brook that needed changing. The downstream portion of the brook was inspected and there was no indication that oil had gone passed the last boom deployed across the brook. Residual oil on rocks along the stream was cleaned and all spent material was drummed for later disposal. A total of 16 55-gallon drums of solid oily debris were generated as of November 22, 1994 and were staged near the heating plant for later disposal at an appropriate facility.

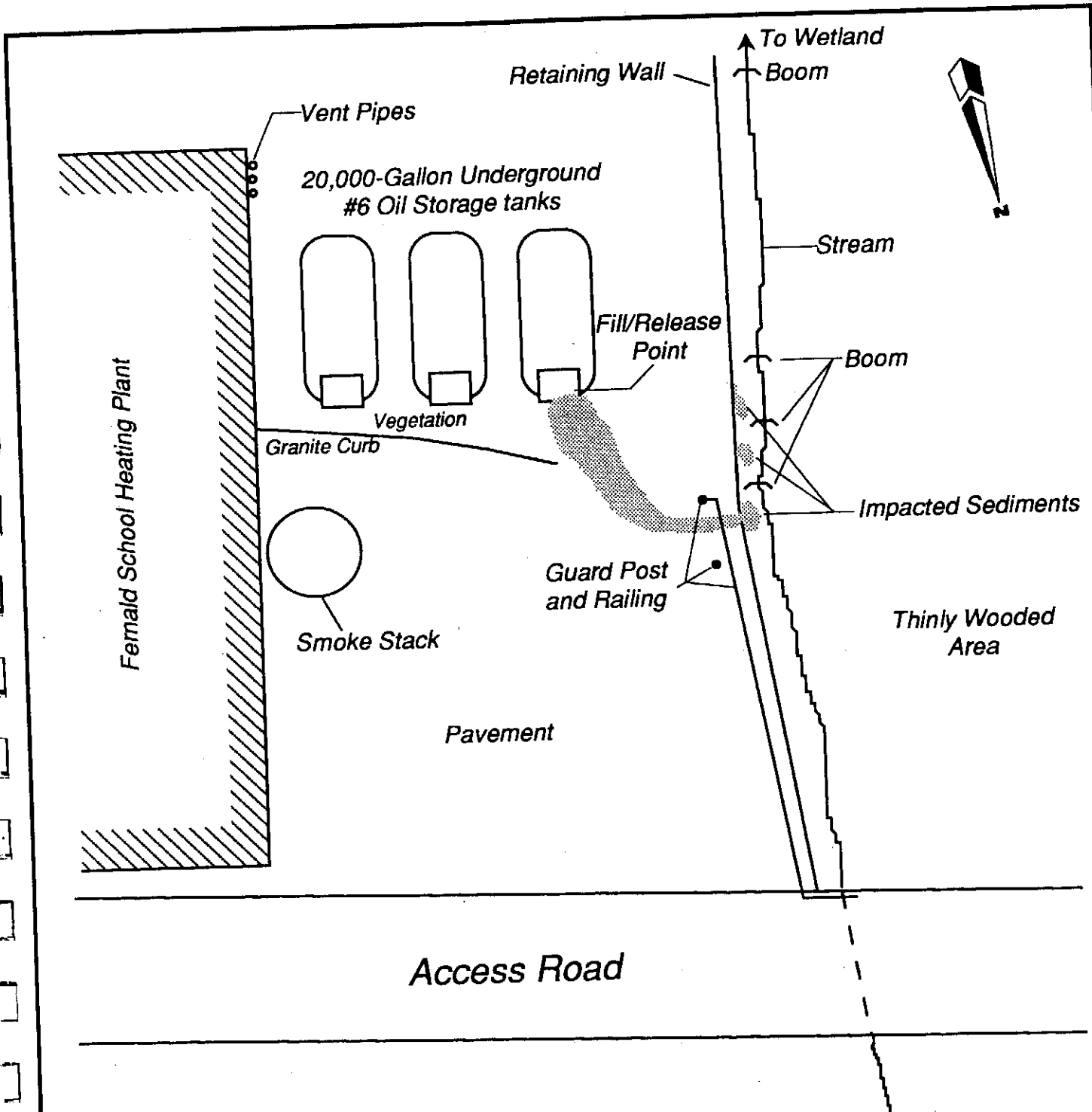
Inspection of the brook area after the clean-up indicated that some sediment along the brook was impacted by the release and required removal. Both the DEP and the Waltham Conservation Commission were contacted regarding the removal of this material and both agencies consented. On December 19, 1994, impacted sediment was removed by hand from three areas along the stream and placed in two additional 55-gallon drums. The remaining booms across the stream were also removed and drummed. A total of 18 drums of oily debris were then transported from the site on December 19 and delivered to Clean Harbors of Braintree, Inc. for disposal. The Uniform Hazardous Waste Manifest for the disposal is presented in Appendix C.

Subsequent inspection of the brook area indicated that all of the sediment in the three impacted areas had been removed and all that remained were large rocks and boulders beneath the water surface. Because all of the sediments were removed, no sediment samples were collected for confirmatory analysis.

Conclusion

A release of 30 gallons of #6 fuel oil occurred at the Fernald School heating plant in Waltham, Massachusetts. The oil spread over pavement and impacted sediments adjacent to a small stream. Remedial actions performed included removing the oil from the pavement using absorbant materials, deploying booms across the stream and removing impacted sediment adjacent to the stream. The materials generated during remediation were disposed at a licensed hazardous waste disposal facility. The response actions have resulted in the removal of all released oil such that no residual impacts from this release remain. Based on the resulting site conditions, the response actions have achieved a permanent solution and a Level of No Significant Risk, meeting the requirement of a Class A-1 RAO. As required by 310 CMR 40.1403, written notification of this RAO has been forwarded to the Chief Municipal Officer and Board of Health of the City of Waltham, a copy of which are presented in Appendix D.

SB-4194/Disk 3445



NOTES

ALL LOCATIONS APPROXIMATE

A	PRELIMINARY	SJA	SJA	WMD	1/19/85
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

Environmental Services, Inc.

325 WOOD ROAD
BRAINTREE, MASSACHUSETTS 02184
(617) 849-1200

FERNALD SCHOOL
200 TRAPELO ROAD
WALTHAM, MASSACHUSETTS

SITE SKETCH

PROJECT NO. SB-4194

SCALE: NONE

DWG. NO.

FIGURE 1

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF HAZARDOUS WASTE
 One Winter Street Boston, Massachusetts 02108



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

**UNIFORM HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No.
 HP6172860460

Manifest Document No.
H9659

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

3. Generator's Name and Mailing Address
**QUALITY TRUCKING COMPANY
 271 LEE SUBURBAN HIGHWAY
 REVERE, MA 02151**

4. Generator's Phone (**617-286-0460**

5. Transporter 1 Company Name
CLEAN HARBORS ENV. SERVICES, INC.

6. US EPA ID Number
MAD039922250

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
**CLEAN HARBORS OF BRAINTREE, INC
 385 QUINCY AVE
 BRAINTREE, MA 02184**

10. US EPA ID Number
MAD053452637

MA 728659
 MA 729659
 MA 849387

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	Waste No.
	No.	Type			
a. WASTE OILY DEBRIS, NOW D.O.T. REGULATED, NONE, N/A					HA01
b.					
c.					
d.					

018 DM 04200 P

J. Additional Descriptions for Materials Listed Above (include physical state and Hazard code)

a. **UN 3091**

K. Handling Codes for Wastes Listed Above
S 10 11

11b. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CALL AT 1-800-OR-TAKE

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

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

AS AGENT FOR QUALITY TRUCKING

Printed/Typed Name: **RECH GORDON**
 Signature: *Rich Gordon*
 Date: **12/9/94**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **RECH GORDON**
 Signature: *Rich Gordon*
 Date: **12/9/94**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name:
 Signature:
 Date:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: **Joe Chiaroni**
 Signature: *Joe Chiaroni*
 Date: **12/15/94**

Form Approved OMB No. 2050-0039. Expires 9-30-94
 EPA Form 357 (Rev. 9-91) This form is for use only by those facilities permitted under RCRA to accept hazardous waste for treatment, storage, or disposal.

COPY > 4: FACILITY RETAINS

MA 729659
 COPY > 4: FACILITY RETAINS

Clean Harbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

January 11, 1995

Mayor's Office
City of Waltham
610 Main Street
Waltham, Massachusetts 02154

Re: Response Action Outcome
Fernald School, Waltham
DEP Release Tracking Number: 3-11878

Dear Mr. Mayor:

On November 21, 1994, approximately 30 gallons of #6 fuel oil were released at the Fernald School at 200 Trapelo Road in the City of Waltham. The release occurred due to back-pressure caused by a clogged vent line during filling by Quality Fuel and Transportation, Inc. of one of three underground oil storage tanks. The release was cleaned up by Clean Harbors Environmental Services, Inc. and was completed with a Class A-1 Response Action Outcome (RAO) in accordance with 310 CMR 40.1030.

This letter has been prepared in accordance with the public notification requirements of 310 CMR 40.1403.3 to provide notification to your office of the release and the availability of the RAO Statement at the Quality Fuel and Transportation, Inc. office (271 Lee Burbank Highway Revere, Massachusetts 02067) or at the Northeast Regional Office of the Massachusetts Department of Environmental Protection (10 Commerce Way, Woburn, MA 01801). No action other than the receipt of this letter is necessary by your office.

Sincerely,

Stephen J. Applebaum
Stephen J. Applebaum
Sr. Project Geologist

CC: City of Waltham Health Department
25 Lexington Street, Waltham, MA 02154

Disk 3445

EXHIBIT C-4

RTN 3-0010367, Within Complex on Chapel St@ Power Plant

Site Information			
Site Number:	3-0010367	Category:	TWO HR
Site Name:	WITHIN COMPLEX ON CHAPEL ST@ POWER PLANT	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	6/28/2002
Town:	WALTHAM	Phase:	PHASE IV
Zipcode:		RAO class:	
Official notification date:	12/29/1993	Location type:	SCHOOL
Initial status date:	2/24/1995	Source:	PIPE

same as
3-13467

Response Action Information	
Response Action Type:	PHSIII - Phase 3
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/28/2002
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	6/28/2002
RAO class:	CI
Activity & Use Limitation:	NONE

Response Action Information	
Response Action Type:	TCLASS - Tier Classification
Status:	TIERII - Tier 2 Classification
Submittal Date:	4/3/1997
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	PHASEI - Phase 1
Status:	CSRCVD - Completion Statement Received
Submittal Date:	4/3/1997
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	8/30/1994
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	CSRCVD - Completion Statement Received
Submittal Date:	6/27/1994
RAO class:	
Activity & Use Limitation:	

Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	3/4/1994
RAO class:	
Activity & Use Limitation:	

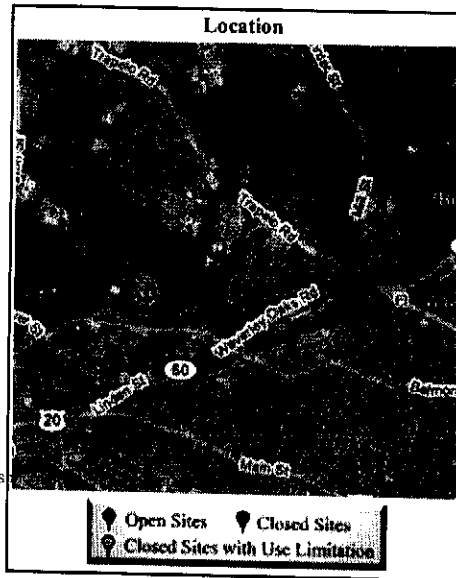
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	12/29/1993
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
#6 FUEL OIL	20	GAL
#6 FUEL OIL	300	GAL

LSPs	
LSP#	Name
N/A	LORD, HENRY J
9092	O'BRIEN, JAMES B

RAO Detail			
Class	Method	GW Category	Soil Category
CI	1	1	2
CI	1	1	2

Tier Classification Detail						
NRS Totals	II	III	IV	V	VI	Zone 2 Imminent Hazard
270	55	75	30	110	0	N
270	55	75	30	110	0	N



N/A

Please forward to
CHRIS COOLEN

3-10367 ✓

WALTHAM

200 TRAPELO for

PHASE I SITE INVESTIGATION

FOR THE:

**POWER PLANT
FERNALD DEVELOPMENTAL CENTER
WALTHAM, MA**

JULY 11, 1995

PREPARED BY:

**LORD ASSOCIATES, INC.
91 PROVIDENCE HIGHWAY
WESTWOOD, MA 02090
(617) 326-3130**

**PHASE I
INITIAL SITE INVESTIGATION REPORT**

GENERAL DISPOSAL SITE INFORMATION

DEP Release Tracking Number: 3-10367

Address: Power Plant
Fernald Developmental Center
200 Trapelo Road
Waltham, MA 02154
Middlesex County

See Figures 1-3 for site locus map and site plans

USGS Quad: Boston North

UTM Coordinates: N 19 46 95 24
E 03 18 25

Site Owner: Massachusetts Department of Mental Retardation
160 North Washington Street
Boston, MA 02114

Populations: Fernald School Workforce: +/- 1,500
Power Plant Workforce: 13
Residential Population Within 1/2 mile Radius: +/- 1,800

Surrounding Land Uses:

North: Approximately 140', Fernald School Greenhouse
West: Immediate, Brook
Approximately 350', Fernald School Groundskeeping Building
South: Immediate, Wetlands/Brook
Approximately 750', Waverly Oaks Road
East: Approximately 750', gasoline service station

The Fernald school is itself an institution. There are no other institutions located within 500 feet of the disposal site. The nearest institutions to the site are the Fitzgerald School, which is approximately 2,100' south of the site, and Bentley College, which is approximately 2,500' west of the site.

Natural Resource Areas within 500' of disposal site:

Surface Waters: West (borders site) -- Brook (5'-10' wide tributary to
 Clematus Brook)
 Southwest -- Approximately 275' to Clematus Brook
 South/Southwest -- Wetlands

Drinking Water Supplies -- None
Areas of Critical Environmental Concern (ACECs) -- None
Protected open Space -- None
Fish Habitats -- None
Species of Special Concern -- None
Threatened or Endangered Species -- None

All of the above information was obtained from MA GIS (Waltham) and USGS
(Boston North).

DISPOSAL SITE HISTORY

The disposal site is the physical plant (power plant) of the Fernald School, a state operated developmental center for the mentally retarded, located between Trapelo Road and Waverly Oaks Road in Waltham, Massachusetts. The Fernald School is owned and maintained by the Massachusetts Department of Mental Retardation (DMR). The disposal site has been owned by the DMR and operated as a power plant for its entire history as applicable for this report. The parcel on which the power plant is located is considered to be the area bounded by the access road, the retaining wall, the dirt path behind the building and a boundary fifty feet east of the plant (See figure 2). The area of this parcel is approximately 1 acre.

According to Mo O'Connell of DMR, the Fernald School has functioned in its capacity for approximately 102 years, and the disposal site location has contained a power plant for most of this period. Prior to the mid 1930s it was operated as a coal fired plant. Other than the power plant itself, the only nearby structure is a greenhouse located roughly 140' north and upgradient from the site.

RELEASE HISTORY

On December 29, 1993, after routine filling of a #6 fuel oil tank to the west of the power plant, a volume of product was released from the spill box to the ground surface. Observers working at the plant originally estimated this volume to be 15-20 gallons. The release occurred due to the oil expanding upon heating to a volume larger than the capacity of the tank. Also on December 29, 1993, Zenone, Inc., a remediation contractor to the DCPO (Division of Capital Planning and Operations), was summoned to the site in response to the spill. Zenone personnel observed that a portion of the fuel oil had flowed over a concrete retaining wall and into a brook due west of the plant. Free phase floating product and oil stained debris were observed in several standing pools as far as 300 feet downgradient (south) of the power plant. On December 29, 1993, verbal approval was given by the Massachusetts Department of Environmental Protection (MDEP) to perform Immediate Response Actions (IRA) described below. A document entitled "IRA Plan" was later submitted to the MDEP as required on February 28, 1994, after most of the work had been completed. This is included in Appendix 2. The objective of the IRA was to remove all free-phase fuel oil observed in the brook and any petroleum contaminated debris from in or around the brook.

Sorbent booms were placed in the brook at several locations downgradient of the power plant in order to contain any further migration of petroleum. A containment fence was placed approximately 150 feet downgradient of the power plant. Photographs of the containment fence and a sorbent boom are shown in Appendix 3 (Zenone report "IRA Completion Statement").

On December 29-30, 1993, approximately 150 gallons of separate phase product was removed from the brook by Evergreen Environmental using a vacuum truck. Petroleum

contaminated debris (wood, soil, hay, rocks...) was collected from in and around the brook and stockpiled on polyethylene sheeting. The used sorbent booms were also stockpiled on polyethylene sheeting. All of the oil contaminated debris was disposed at Jetline, Inc., in Stoughton, MA, on April 15, 1994. Copies of the hazardous waste manifests are included in Appendix 3. At the request of MDEP, on April 15, 1994, all #6 fuel oil remaining in the fillboxes was removed and placed in drums. These drums were removed from the site on April 25, 1994 by Evergreen Environmental, Inc. The fillboxes were then steam cleaned and observed to be open at the bottom.

To complete the IRA, surface water samples were collected on May 31, 1994 both upgradient (SW-1) and downgradient (SW-2) of the power plant to assess the impacts of the fuel oil spill on the brook. The samples were analyzed for TPH via EPA method 418.1 and PAHs via method 8270. No contaminants were detected in either sample. Laboratory reports for the May 31 surface water samples are included in the IRA Completion Statement in Appendix 3.

OIL USE AND STORAGE HISTORY

The only type of oil stored on the site is #6 fuel oil. Approximately 1,700,000 gallons/year of #6 fuel oil is used for boiler plant operation in producing heat for the entire facility. The power plant is in operation on a 24 hour per day basis. There are three underground storage tanks on site for storage of the #6 fuel oil, each installed in 1954. The tanks, shown in Figures 2 & 3, are 23K, 25K and 28K gallons in volume. Information on oil storage prior to 1954 is not available.

WASTE MANAGEMENT HISTORY

- Land Disposal - None
- The power plant has no septic tank or leaching fields, however there are at least five floor drains located at the base of the building which are believed to empty into the wetlands to the south of the site. The outfall pipe could not be located. The drains are used to remove condensate water from the building (see figure 2)
- There are no known surface water discharges from the building (see Figure 2 for location of surface water discharge from unknown source)
- Water and sewage from the power plant is discharged into the municipal wastewater treatment system.

ENVIRONMENTAL PERMITS AND COMPLIANCE HISTORY

According to Mo O'Connel, there are no records indicating that Environmental Permits have ever been obtained for any operation at the power plant This includes local, state and federal environmental permits as well as hazardous material storage permits. Hazardous waste manifests are included for the oil and oil contaminated material which was removed from the

site on April 15, 1994. These manifests are included in the IRA Completion Statement in Appendix 3.

POTENTIALLY RESPONSIBLE PARTIES

The Department of Mental Retardation is the only responsible party for the disposal site discussed herein. As mentioned above, the address for DMR is:

Massachusetts Department of Mental Retardation
160 North Washington Street
Boston, MA 02114

SITE HYDROGEOLOGICAL CHARACTERISTICS

On December 8, 1994, four 4 1/4 inch diameter soil borings (B-1 ⇒ B-4) were installed in the vicinity of the #6 fuel oil tanks to assess the presence or extent of subsurface soil or groundwater contamination. These borings were advanced to depths ranging from eleven to sixteen feet. Split spoon sampling and soil classification indicated that a majority of the soil penetrated was loose fine sand with traces of gravel and silt for the entire length of the borings. Bedrock was not encountered during the installation of any of the four borings. Well logs for Borings 1-4 are included in Appendix 1.

The northern portion of the site has been filled to a level approximately ten feet higher than the elevation of the brook. A concrete retaining wall, over which the oil release occurred, exists between the site and the brook. The southern portion of the site, which borders the wetlands and the brook, is approximately one foot above the elevation of the brook. A steep slope exists between the northern and southern portions of the site. The power plant has been constructed over both halves of the site so that the base of the building exists at two different elevations. Only one boring, B-1, was located in the filled portion of the site because this area is upgradient of the fuel oil tank.

2" monitoring wells were installed in each of the four soil borings on December 8, 1994. Using an electronic water-level indicator, Depth to Water analyses were performed in the monitoring wells on January 17, 1995. This data is shown in the following table.

<u>WELL #</u>	<u>DEPTH TO FREE PRODUCT</u>	<u>DEPTH TO WATER</u>	<u>FREE-PRODUCT THICKNESS</u>
MW-1	ND	8.62'	ND
MW-2	ND	0.38'	ND
MW-3	ND	2.61'	ND
MW-4	ND	3.45'	ND

A groundwater flow diagram produced with this data is shown in Figure 3 and demonstrates that the groundwater gradient is to the south and toward the brook.

NATURE AND EXTENT OF CONTAMINATION

On the day of the release, December 29, 1993, oil contamination was visually evident at the tank fill box, between the fill box and the retaining wall and in the brook. After execution of the approved IRA Plan on December 29-30, 1993, this contamination was no longer apparent. As noted above, water samples were collected from the brook on May 31, 1994 to determine the impact of the release on the brook. No contamination was detected either upstream or downstream from the power plant.

As part of the Initial Site Investigation, surface water samples were collected again on January 20, 1995 and analyzed for Total Petroleum Hydrocarbons via EPA method 8100. On this occasion, samples were collected from three locations; upstream and downstream from the power plant, and several hundred feet downstream from the power plant in the swamp area. Although a slight sheen was visible downstream, again, no contamination was detected in the surface water samples. Laboratory reports are included in Appendix IV.

During drilling operations on December 8, 1994, one split spoon sample from each boring was sent to Geolabs, Inc. for TPH analysis via EPA method 8100. Geolabs reported that the TPH concentration in B-1, at a depth of 14'-16', was 68 ppm and that the TPH concentration in B-2, at a depth of 4'-6', was 290 ppm. No TPH contamination was detected in soil samples from B-3 (5'-7') or B-4 (9'-11'). This data is shown in Table 1. Laboratory reports for soil boring samples are also included in Appendix V.

After bailing each well of three times its water volume, groundwater samples were collected from the 4 monitoring wells (MW 1-4) on January 17, 1995, and analyzed for TPH (418.1) and VOCs (8240) by Geolabs, Inc. No contamination was detected in any of the wells. Laboratory reports are included in Appendix VI.

On January 20, 1995, two composite soil samples were collected of the brook sediment, and sent to Geolabs, Inc. for TPH analysis via EPA method 8100. The first (TANK SEDIMENT)

was taken along the base of the retaining wall in the area which appeared to be nearest the spill location and downgradient from the fuel oil tank. Geolabs reported the TPH concentration in this sample to be 966 ppm. The second sample was collected approximately two hundred feet downstream from the power plant toward the wetland (WETLAND SEDIMENT). Geolabs reported that the TPH concentration in this sample was 687 ppm. In both cases, samples were composed of soils from both underneath the brook surface and from the unsaturated banks of the brook. This data is attached in Appendix VII.

PREVIOUS RELEASES

According to Mo O'Connel, the only previous release on record occurred on November 30, 1980. On this date, the Metropolitan Petroleum Company, during a routing delivery, spilled what was estimated to be 200 gallons of #6 fuel oil onto the ground surrounding the tanks. Jet Line Services was notified to mitigate the release. Jet Line reported collecting an estimated 100 gallons of oil/water mixture from the brook, and the proper notifications were made.

HORIZONTAL AND VERTICAL EXTENT

Split spoon sampling data indicates that subsurface soil contamination extends beyond -6' only in B-1 (14'-16'), which is immediately adjacent to the fuel oil tank. TPH was detected in this sample at a concentration of 68 ppm. TPH was also detected in soils approximately 50' southeast of the tank in B-2 (290 ppm), however this was at a depth of only 4'-6' and may be attributable to a localized spill event. As noted earlier, no groundwater or surface water contamination was detected in any sample. Free-phase petroleum product has not been detected in any of the four monitoring wells.

January 20, 1995 sediment sampling of the brook did demonstrate that some horizontal migration of TPH contamination via the moving surface water has occurred. TPH was detectable in soil samples at a concentration of 687 ppm approximately 200 feet downstream from the plant. The horizontal and vertical extents of the sediment contamination is currently undefined.

MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

Potential for migration of oil via:

1. Air -- None
2. Soil -- None
3. Groundwater -- None (no groundwater contamination detected)
4. Surface water -- None (no surface water contamination detected)
5. Sediments -- Sampling has confirmed the potential for the migration of contamination through the brook sediments.

**TABLE 1
SPLIT SPOON SAMPLING DATA
FERNALD DEVELOPMENT CENTER
WALTHAM, MA**

**TOTAL PETROLEUM HYDROCARBONS
SOIL BORING SAMPLES COLLECTED ON 12/08/94**

BORING NUMBER	DEPTH	TPH (PPM)
B-1	14'-16'	68.1
B-2	4'-6'	290
B-3	5'-7'	ND
B-4	9'-11'	ND

±10' RETAINING WALL

MW-1
90.87

POWER
PLANT

90

VENT
PIPES

89

88

MW-2
88.04



MW-4
86.85

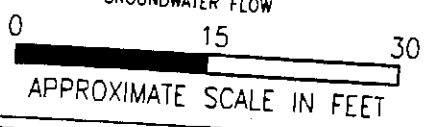
MW-3
87.11

87

APPROXIMATE
N

LEGEND

-  MONITORING WELL
-  APPROXIMATE DIRECTION OF GROUNDWATER FLOW



LORD ASSOCIATES

81 PROVIDENCE HWY. WESTWOOD, MA (617) 328-3130 FAX (617) 328-2012

GROUNDWATER ELEVATIONS 1/17/95

DRAWN BY: JD	ACAD FILE: FERNALD3	DATE: 5/4/95
-----------------	------------------------	-----------------

FERNALD DEVELOPMENTAL CENTER WALTHAM, MA	FIGURE: 3
---	--------------

LOCATION OF 1/20/95 SURFACE WATER SAMPLE "UPSTREAM"

ACCESS ROAD

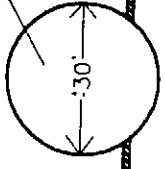
APPROXIMATE

DISCHARGE FROM UNKNOWN SOURCE

FLU GAS STACK

POWER PLANT

BASE OF ABANDONED SILO

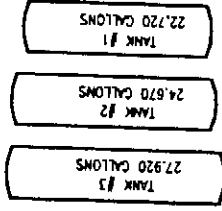


BROOK
ELEV = :86'

10' RETAINING WALL

MW-1
RIM=99.49

VENT PIPES



LOCATION OF 1/20/95 SOIL SAMPLE "TANK SEDIMENT"

FLOOR DRAINS IN BASEMENT

ELEV :88'

12' WIDE GARAGE DOORS

MW-2
RIM=88.42

MW-3
RIM=89.72

MW-4
RIM=90.30

DIRT PATH

BRIDGE

LOCATION OF 1/20/95 SURFACE WATER SAMPLE "DOWNSTREAM"

RETAINING WALL

LEGEND

MONITORING WELL

APPROXIMATE SCALE IN FEET

LORD ASSOCIATES
 81 PROVIDENCE HWY.
 WESTWOOD, MA (617) 338-3130
 FAX (617) 338-2012

SITE PLAN

DRAWN BY:	ADAD FILE:	DATE:
JD	FERNALD2	5/4/95
FERNALD DEVELOPMENTAL CENTER WALTHAM, MA		FIGURE: 2

Potential for human exposure through:

1. Inhalation -- None
2. Dermal Contact -- See below
3. Ingestion -- None

The potential for dermal contact to the brook sediments exists, however, the contaminated area is remote and accessible only from the power plant side. A six foot barbed wire/chain link fence divides the brook/wetland from public access to the area.

Potential impacts

Low concentrations of TPH detected in two of the four soil borings pose no threat to any environmental receptors. The subsurface #6 fuel oil contamination is apparently local to the tank and not likely to migrate. The TPH contamination, to the extent confirmed, detected in the brook sediment poses little environmental threat as there are no special or threatened species, drinking water supplies, ACECs or fish habitats on or near of the area. However, the extent of this sediment contamination should be further studied to ensure that the areas with the highest concentrations have been discovered.

EVALUATION FOR IMMEDIATE RESPONSE ACTIONS

There are no additional Immediate Response Actions necessary in response to the December, 1993 release incident.

CONCLUSIONS

As noted above, additional samples should be taken of the brook sediment and analyzed for TPH and PAHs. Sediment samples should be taken at several locations along the brook, including upstream and several hundred feet downstream from the power plant. The latter samples should be taken from beyond the chain link fence to see if oil contamination has migrated into the wetlands south of the site. Also, a hand auger should be used to collect sediment samples at several depths to confirm the vertical extent of the oil presence.

EXHIBIT C-5

RTN 3-0015442, Powerplant

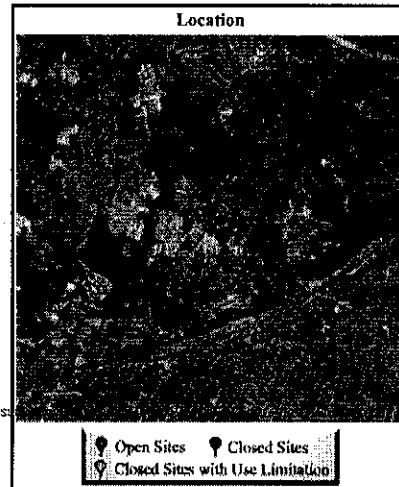
Site Information			
Site Number:	3-0015442	Category:	TWO HR
Site Name:	POWERPLANT	Release Type:	RAO
Address:	200 TRAPELO RD	Current date:	10/24/1997
Town:	WALTHAM	Phase:	
Zipcode:	02154-0000	RAO class:	
Official notification date:	8/19/1997	Location type:	SCHOOL, STATE
Initial status date:	8/19/1998	Source:	PIPE, VEHICLE

Response Action Information	
Response Action Type:	RAO - Response Action Outcome - RAO
Status:	RAORCD - RAO Statement Received
Submittal Date:	10/24/1997
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Information	
Response Action Type:	RNF - Release Notification Form Received
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	10/14/1997
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	IRA - Immediate Response Action
Status:	APORAL - Oral Approval of Plan or Action
Submittal Date:	8/19/1997
RAO class:	
Activity & Use Limitation:	
Response Action Information	
Response Action Type:	REL - Potential Release or Threat of Release
Status:	REPORT - Reportable Release or Threat of Release
Submittal Date:	8/19/1997
RAO class:	
Activity & Use Limitation:	

Chemicals		
Chemical	Amount	Units
#6 FUEL OIL	100	GAL
FUEL OIL #6	100	GAL

LSPs	
LSP#	Name
9763	LESSARD, LAWRENCE H

RAO Detail			
Class	Method	GW Category	Soil Category
A2	2	2	1
A2	2	2	1



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0/A
Response Action Outcome Statement

#6 Fuel Oil Release
Fernald School
200 Trapelo Road
Waltham, Massachusetts
Release Tracking Number, 3-15442
CEA Ref. # 3404-97-1
October 24, 1997

A-2

Party Assuming Responsibility for the Immediate Response Action and Response Action Outcome:

T.S. Truck Service
Mr. Jay Howard President
7 Christo Lane
Millbury, MA 01527 508-799-7629

Consultant Performing the Immediate Response Action:

Corporate Environmental Advisors, Inc. (CEA)
Marc E. Brochu Hydrogeologist
127 Hartwell Street
West Boylston, MA 01583 508-835-8822

Licensed Site Professional:

Lawrence H. Lessard L.S.P. # 9763
CEA, Inc.
127 Hartwell Street
West Boylston, MA 01583 508-835-8822



CORPORATE ENVIRONMENTAL ADVISORS, INC.

October 24, 1997

MA-DEP Northeast Region
Bureau of Waste Site Cleanup
10 Commerce Way
Woburn, MA 01801

**RE: Response Action Outcome Statement
MA-DEP Site #3-15442
Fernald School
200 Trapelo Road
Waltham, Massachusetts
CEA Ref. # 3404-97-1**

On behalf of T.S. Truck Service, Inc., Corporate Environmental Advisors, Inc. (CEA) submits the attached Class A Response Action Outcome Statement for the above-referenced property. A Release Notification Form for this RTN was previously submitted to the MA DEP on October 14, 1997.

If there are any questions or comments regarding this submittal, please feel free to contact our office at (508) 835-8822.

Sincerely,
CEA, Inc.

Marc E. Brochu
Hydrogeologist

MEB:meb

Enc: RAO Statement

pc: Mr. Jay Howard
T.S. Truck Service
7 Christo Lane
Millbury, MA 01527

Lawrence H. Lessard, LSP
CEA, Inc.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 15442

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

A. SITE OR DOWNGRADIANT PROPERTY LOCATION:

Site Name: (optional) Fernald School

Street 200 Trapelo Road Location Aid: _____

City/Town: Waltham ZIP 02154-0000

Check here if this Site location is Tier Classified. If a Tier I Permit has been issued, state the Permit Number: _____

Related Release Tracking Numbers that this Form Addresses: _____

If submitting an RAO Statement, you must document the location of the Site or the location and boundaries of the Disposal Site subject to this Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site. If submitting a Downgradient Property Status Submittal, you must provide a site plan of the property subject to the submittal and, to the extent defined, the Disposal Site.

B. THIS FORM IS BEING USED TO: (check all that apply)

Submit a Response Action Outcome (RAO) Statement (complete Sections A, B, C, D, E, F, H, I, J and L). OCT 2 A 1997

Check here if this is a revised RAO Statement. Date of Prior Submittal: _____

Check here if any Response Actions remain to be taken to address conditions associated with any of the Releases whose Release Tracking Numbers are listed above. This RAO Statement will record only an RAO-Partial Statement for those Release Tracking Numbers.

Specify Affected Release Tracking Numbers: _____

Submit an optional Phase I Completion Statement supporting an RAO Statement or Downgradient Property Status Submittal (complete Sections A, B, H, I, J, and L).

Submit a Downgradient Property Status Submittal (complete Sections A, B, G, H, I, J and K).

Check here if this is a revised Downgradient Property Status Submittal. Date of Prior Submittal: _____

Submit a Termination of a Downgradient Property Status Submittal (complete Sections A, B, I, J and L).

Submit a Periodic Review Opinion evaluating the status of a Temporary Solution (complete Sections A, B, H, I, J and L).

Specify one: For a Class C RAO For a Waiver Completion Statement indicating a Temporary Solution

Provide Submittal Date of RAO Statement or Waiver Completion Statement: _____

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

Assessment and/or Monitoring Only

Removal of Contaminated Soils

Re-use, Recycling or Treatment

On Site Off Site Est. Vol.: 15 cubic yards

Describe: _____

Landfill Cover Disposal Est. Vol.: _____ cubic yards

Removal of Drums, Tanks or Containers

Describe: _____

Removal of Other Contaminated Media

Specify Type and Volume: _____

Other Response Actions

Describe Assessment

Deployment of Absorbant or Contaminant Materials

Temporary Covers or Caps

Bioremediation

Soil Vapor Extraction

Structure Venting System

Product or NAPL Recovery

Groundwater Treatment Systems

Air Sparging

Temporary Water Supplies

Temporary Evacuation or Relocation of Residents

Fencing and Sign Posting

SECTION C IS CONTINUED ON THE NEXT PAGE.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 15442

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

C. DESCRIPTION OF RESPONSE ACTIONS: (continued)

Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

Describe Technologies: _____

D. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste was sent to an off-site facility, answer the following questions)

Name of Facility: AMREC; Northland Environmental, Inc.

Town and State: Charlton, MA; Providence, RI

Quantity of Remediation Waste Transported to Date: 25.5 tons, 10/8/97; 2,400 lbs., 10/3/97

E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select ONLY one Class:

- Class A-1 RAO: Specify one of the following:
 - Contamination has been reduced to background levels.
 - A Threat of Release has been eliminated.
- Class A-2 RAO: You MUST provide justification that reducing contamination to background levels is infeasible.
- Class A-3 RAO: You MUST provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.

If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: _____
- Class B-1 RAO: Specify one of the following:
 - Contamination is consistent with background levels
 - Contamination is NOT consistent with background levels.
- Class B-2 RAO: You MUST provide an implemented AUL.

If applicable, provide the AUL expiration date: _____
- Class C RAO: Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.

Specify One: Passive Operation and Maintenance Monitoring Only

Active Operation and Maintenance (defined at 310 CMR 40.0006)

F. RESPONSE ACTION OUTCOME INFORMATION:

If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.

Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

- Notice of Activity and Use Limitation
- Grant of Environmental Restriction
- Number of AULs attached: _____

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.
Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

Risk Characterization Method(s) Used:	<input type="checkbox"/> Method 1	<input checked="" type="checkbox"/> Method 2	<input type="checkbox"/> Method 3
Soil Category(ies) Applicable:	<input checked="" type="checkbox"/> S-1	<input checked="" type="checkbox"/> S-2	<input checked="" type="checkbox"/> S-3
Groundwater Category(ies) Applicable:	<input type="checkbox"/> GW-1	<input checked="" type="checkbox"/> GW-2	<input checked="" type="checkbox"/> GW-3

> When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do NOT specify a Risk Characterization Method.

> When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is NOT consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRADIENT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 15442

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

G. DOWNGRADIENT PROPERTY STATUS SUBMITTAL:

- If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.
- Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.

Release Tracking _____

Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

H. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Lawrence H. Lessard LSP #: 9763 Stamp:

Telephone 508-835-8822 Ext: _____

FAX: 508-835-8812

Signature: [Handwritten Signature]

Date: 10/24/97



I. PERSON MAKING SUBMITTAL:

Name of T.S. Truck Service

Name of Jay Howard Title: President

Street: 7 Christo Lane

City/Town: Millbury State MA ZIP Code: 01527-0000

Telephone: 508-799-7629 Ext: _____ FAX: _____

J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: (check one)

- RP or PRP Specify: Owner Operator Generator Transporter Other RP or _____
- Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- Any Other Person Submitting This Form Specify _____



RESPONSE ACTION OUTCOME (RAO) STATEMENT &
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

Release Tracking
Number

3 - 15442

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

K. CERTIFICATION OF PERSON SUBMITTING DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: _____
(signature)

For _____ Date: _____
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____

City/Town: _____ State _____ ZIP Code: _____

Telephone: _____ Ext. _____ FAX: (optional) _____

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, Jay Howard, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity - legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Joseph M. Howard Title: President
(signature)

For T.S. Truck Service Date: 10/3/97
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: _____

City/Town: _____ State _____ ZIP Code: _____

Telephone: _____ Ext. _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-103

RELEASE NOTIFICATION & NOTIFICATION RETRACTION
FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart

Release Tracking
Number

3 - 15442

If assigned by DEP

A. RELEASE OR THREAT OF RELEASE LOCATION:

Street: 200 Trapelo Rd Location Aid: _____

City/Town: Waltham ZIP Code: 02154-0000

B. THIS FORM IS BEING USED

(check one)

Submit a Release Notification (complete all sections of this form).

Submit a Retraction of a Previously Reported Notification of a Release or Threat of Release (complete Sections A, B, E, F and G of this form). You MUST attach the supporting documentation required by 310 CMR 40.0335.

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

Date and time you obtained knowledge of the Release or TOR. 08/19/97 Time: 5:10 Specify: AM PM

The date you obtained knowledge is always required. The time you obtained knowledge is not required if reporting only 120 Day Conditions.

IF KNOWN, record date and time release or TOR occurred. 08/19/97 Time: 5:00 Specify: AM PM

Check here if you previously provided an Oral Notification to DEP (2 Hour and 72 Hour Reporting Conditions only).

Provide date and time of Oral Notification. 08/19/97 Time: 5:30 Specify: AM PM

Check all Notification Thresholds that apply to the Release or Threat of Release: (for more information see 310 CMR 40.0310 - 40.0315)

2 HOUR REPORTING CONDITIONS

72 HOUR REPORTING CONDITIONS

120 DAY REPORTING CONDITIONS

Sudden Release

Threat of Sudden Release

Oil Sheen on Surface Water

Poses Imminent Hazard

Could Pose Imminent Hazard

Release Detected in Private Well

Release to Storm Drain

Sanitary Sewer Release (Imminent Hazard Only)

Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch

Underground Storage Tank (UST) Release

Threat of UST Release

Release to Groundwater near Water Supply

Release to Groundwater near School or Residence

Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)

Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards

Release of Oil to Groundwater Exceeding Reportable Concentration(s)

Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch

List below the Oils or Hazardous Materials that exceed their Reportable Concentration or Reportable Quantity by the greatest amount. If necessary, attach a list of additional Oil and Hazardous Material substances subject to reporting.

Name and Quantities of Oils (O) and Hazardous Materials (HM)

Released:

O or HM Released

O HM (check one)

CAS # (if known)

Amount or Concentration

Units

Reportable Concentrations Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)

#6 Fuel Oil 100 gallons 10 gallons

D. ADDITIONAL INVOLVED PARTIES:

Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

Check here if attaching Licensed Site Professional (LSP) name and address (optional).

You may write in names and addresses on the bottom of the second page of this form.

Previously submitted



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-103

RELEASE NOTIFICATION & NOTIFICATION RETRACTION
FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

Release Tracking
Number
3 - 15442
If assigned by DEP

E. PERSON REQUIRED TO NOTIFY:

Name of Organization: T.S. Truck Service
Name of Contact: Jay Howard Title: President
Street: 7 Christo Lane
City/Town: Millbury State: MA ZIP Code: 01527-0000
Telephone: 508-799-7629 Ext.: _____ FAX: _____
(optional)

F. RELATIONSHIP OF PERSON REQUIRED TO NOTIFY TO RELEASE OR THREAT OF RELEASE: (check one)

- RP or PRP Specify Owner Operator Generator Transporter Other RP or PRP: _____
- Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(i))
- Any Person Otherwise Required to Notify Specify Relationship: _____

G. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

I, Jay Howard, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/vis aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

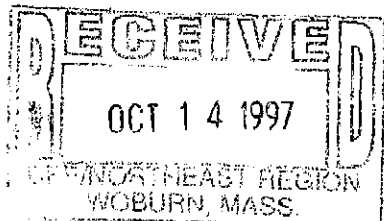
By: Joseph M. Howard Title: President
(signature)
For T.S. Truck Service Date: 10/3/97
(print name of person or entity recorded in Section E)

Enter address of the person providing certification, if different from address recorded in Section E:
Street: _____
City/Town: _____ State: _____ ZIP Code: _____
Telephone: _____ Ext.: _____ FAX: _____
(optional)

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Property Affected:
Fernald School
200 Trapelo Road
Waltham, MA 02154

L.S.P.:
Lawrence H. Lessard, #9763
Corporate Environmental Advisors, Inc.
127 Hartwell St.
West Boylston, MA 01583
Tel: (508) 835-8822



Introduction:

On August 19, 1997, at approximately 5:00 a.m., up to 100 gallons of #6 fuel oil were released to an asphalt and concrete driveway surface and a dry drainage stream bed at the Fernald School located at 200 Trapelo Road in Waltham, Massachusetts, as shown in **Figure 1, Site Locus**. The release occurred when, during a routine delivery of fuel oil to one of two 25,000 gallon Underground Storage Tanks (USTs) at the site, the fuel fill line on a T.S. Truck Service delivery truck became disconnected from the fill port of the UST. An estimated 100 gallons of fuel oil were released to the concrete and asphalt surface beneath the truck, approximately 50 gallons of which migrated first laterally across the concrete and asphalt surface and then vertically down a concrete retaining wall and into a dry drainage stream bed, as detailed in **Figure 2, Site Layout**. Upon discovering the release, the driver immediately activated the fuel shut-off mechanism on the truck, and as such eliminated the source of the release. The 100 gallon release estimate was based upon the duration of fuel oil release from the disconnected fuel line and the extent of initial surficial impact. The release occurred in a parking lot/driveway at the Fernald School's boiler room building (plant), located at the southern end of the school campus

Release notification was made to the Massachusetts Department of Environmental Protection (DEP) by T.S. Truck Service, based on a two (2) hour reporting condition. A Two hour reporting criteria was met due to the observance of a sudden release to the environment of petroleum, identified as #6 fuel oil, at a quantity believed to be greater than the Reportable Quantity of 10 gallons, as specified in 310 CMR 40.0351 or 310 CMR 40.1600.

Receptors of the subject release included an approximate 200 square foot area of the asphalt and concrete parking lot/driveway surface adjacent to the boiler room building. Also impacted was a small amount of sand along the edges of this driveway surface, and approximately eight vertical linear feet of the concrete retaining wall which leads down to the drainage stream situated approximately eight feet below the level of the driveway. Approximately forty square foot area of the rock and soil surface in the dry stream bed were impacted. Much of the fuel oil released to the stream bed coated large boulders in the stream bed in the area of the release with a film of oil.

The subject stream serves as a drainage basin for surface runoff from the upgradient portion of the Fernald School and discharges to a nonforested freshwater wetland approximately 600 feet downgradient of the subject release area.

Assessment beneath the asphalt and concrete of the driveway surface subsequently revealed that the soil beneath this surface had also been impacted by the subject release. Several large partings in the concrete surface likely facilitated the vertical migration of the released oil into these soils. In addition, an approximate five square foot area of the concrete UST fill port pad and stairs leading to this pad were impacted by the release.

Upon migrating to the stream, the released #6 oil pooled in a single isolated area in the stream bed and did not migrate down stream. The stream was dry at the time of the release. A puddle of standing water in the stream bed, approximately 50 feet downstream of the release area, showed no oil sheen or evidence of impact by the subject release.

No catch basins or storm drains were impacted by the subject release.

Immediate Response Action:

Initial Spill Response - August 19 and 20, 1997

The release occurred at approximately 5:00 a.m. Initial responders to the release included T.S. Truck Service personnel and Fernald School plant personnel. The MA DEP was subsequently notified of the release at 5:30 a.m. by T.S. Truck Service. Mr. Christopher Bresnahan of the MA DEP arrived on-site shortly thereafter. Mr. Bresnahan granted IRA verbal approval for the application of absorbents in the release area to contain the release.

Zecco, Inc. was contacted by T.S. Truck Service and retained at that time to perform the necessary remedial response actions. CEA was subsequently notified of the release by Zecco, Inc., and was, at that time retained as the



LSP. Additional notification to the Town of Waltham Fire Department was made by CEA within two hours of the time of release.

Zecco personnel arrived on site at approximately 6:00 a.m. and proceeded to apply granular absorbent to the entire impacted surface area of the driveway. Precautionary absorbent booms were placed in strategic locations down stream of the impacted portion of the stream bed. Booms were also placed in the driveway adjacent to the top of the retaining wall to prevent additional fuel oil product from migrating down this wall into the stream.

CEA personnel arrived at the release site at approximately 8:00 a.m. and proceeded to oversee the response actions in progress. Pursuant to MA DEP suggestion, CEA personnel provided written notification to the Massachusetts Conservation Commission on August 20, 1997. This notification was required as #6 oil had been released into a surface water basin approximately 600 feet upgradient of a wetland area.

Zecco, Inc. personnel repeatedly swept the granular absorbent over the entire impacted surface area of the concrete and asphalt driveway, and the impacted areas of the retaining wall and concrete fill port pad and stairs until all of the released #6 oil was removed from these surfaces. Only a minimal oil stain remained on these surfaces upon departure of Zecco personnel on August 19th.

On August 19th, Mr. Bresnahan granted additional verbal IRA approval for the excavation of up to five cubic yards of fuel oil impacted soil from the stream bed, and for the pumping of pooled oil product via vacuum truck from the dry stream bed.

A small amount (< 1 Cubic Yard) of soil was excavated by hand by Zecco personnel on August 19th, such that no free oil product remained on the stream bed. It was subsequently determined by CEA personnel that additional excavation of soil would be required to fully remediate the impacted area of the stream bed.

Prior to their departure from the site on August 19th, Zecco personnel placed additional precautionary absorbent booms along the stream bed downgradient and around the release area. The area of impacted soils in the stream bed was covered with polyethylene sheeting to ensure that potential rain showers would not wash fuel oil impacted soils downstream and into the wetland area.

The entire impacted area of the asphalt and concrete driveway surface, concrete retaining wall, and concrete fill port pad and stairs had been fully remediated upon the departure of Zecco personnel from the site on August 19th.

All remedial waste generated relative to the response actions conducted for the subject release on August 19th, including absorbent pads and booms, granular absorbent (Speedi-dry), and a small amount of soil and sand excavated from along the margins of the driveway area and from the stream bed, were placed in 17H DOT drums and temporarily stored on-site pending disposal by Zecco, Inc. under Hazardous Waste Manifest.

Both CEA and Zecco personnel returned to the site on August 20, 1997 and proceeded to excavate approximately five cubic yards of soil from the impacted area of the stream bed. Boulders in the stream bed which were impacted by the released fuel oil had been partially cleaned with granular absorbent on August 19th. Excavated soil was stockpiled on-site pending disposal under the Bill of Lading process. Soil in the excavation area was monitored by olfactory means. Excavation continued until no fuel oil odors were detected in the soil at the base of the stream bed.

Upon completion of the excavation, a representative composite soil sample was collected from the stream bed excavation area. On October 6, 1997 a composite soil sample was collected from the stream bed at a location upstream of the release and August 20th excavation. This sample was collected in order to determine the background conditions for the stream bed soils. The stream bed was dry at the time this sample was collected. Each of these samples was submitted to a state certified laboratory for analysis of Extractable Petroleum Hydrocarbons (EPH). The results of these analyses are included in Attachment 1 and are summarized below in Table 1.



Table 1
Stream Bed Soil Analytical Results

Parameter (ppm)	Base (8/20/97)	Stream-2 (10/6/97)	MA-DEP S-1 Cleanup Standard
C9-C18 Aliphatics	24	5	1,000
C19-C36 Aliphatics	290	97	2,500
C10-C22 Aromatics	180	82	800
Total EPH	494	184	---

All results presented in mg/Kg (parts per million), ppm

Both samples Stream-2 and Base exhibited no fuel oil odors. In addition, sample Stream-2 exhibited a concentration of Total Organic Vapors (TOV) below that which could be detected by a Photoionization Detector (PID) when screened in the field (ND). The EPH concentration exhibited in sample Stream-2 is considered representative of background conditions at the site for the stream bed soils. This EPH concentration is well below the applicable Cleanup Standard for category S-1 soils, and is considered a local condition, likely the result of runoff from upgradient road and parking lot surfaces which have drained into the stream. The EPH concentration in the sample designated 'Base' exceeds the local background condition in the stream bed, but is well below the applicable MA-DEP S-1 soil Cleanup Standard. Additional excavation in the impacted area of the stream bed to reduce petroleum hydrocarbon levels to background conditions was determined by both CEA and Zecco personnel to be infeasible based upon the high concentration of boulders in the excavation area, and the location of this area within a narrow wooded gully.

Subsurface Soil Assessment - August 25, 1997

CEA personnel returned to the site on August 25, 1997 to conduct a subsurface soil assessment for soils beneath the concrete and asphalt driveway surface. A soil sample collected by CEA personnel on August 20th from between a parting in the impacted, stained area of this surface revealed a total EPH concentration of 565 ppm, as included in Attachment 1. All associated Aliphatic and Aromatic constituent concentrations in this sample were well below the applicable MA DEP S-1 Cleanup Standards, but suggested that additional soils beneath the driveway surface in the release area may have been impacted.

On August 25th, CEA personnel advanced three borings through the concrete and asphalt surfaces by means of a hand soil auger. Soil samples were collected with the auger from depths of six inches to one foot below grade. The locations of these samples are included in Figure 2. Each of the three samples exhibited no fuel oil odors and exhibited TOV concentrations below that which could be detected by a PID when screened in the field. These samples were subsequently submitted for laboratory analysis of EPH and Polycyclic Aromatic Hydrocarbons (PAHs). The results of these analyses are included in Attachment 1 and are summarized below in Table 2.

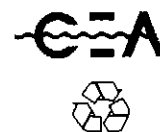


Table 2
 Soil Analytical Results
 August 25, 1997

EPH and PAH Parameters	S-1 (ppm)	S-2 (ppm)	S-3 (ppm)	MA DEP S-1 Cleanup Standard
C9-C18 Aliphatics	14	19.8	65.6	1,000
C19-C36 Aliphatics	69.5	75.7	113	2,500
C10-C22 Aromatics	123	62.5	103	800
Total EPH	206	158	282	---
Anthracene	ND	ND	1.09	1,000 / 5,000
Benzo(a)anthracene	2.07	ND	2.26	0.7 / 4.0
Benzo(a)pyrene	2.87	ND	1.76	0.7 / 0.7
Benzo(b)fluoranthene	4.71	ND	3.03	0.7 / 4.0
Benzo(ghi)perylene	2.4	ND	1.11	1,000 / 2,500
Benzo(k)fluoranthene	1.13	ND	ND	7.0 / 40
Chrysene	1.81	ND	2.49	7.0 / 40
Dibenzo(a,h)anthracene	2.54	ND	ND	0.7 / 0.8
Fluoranthene	1.31	ND	5.57	1,000 / 5,000
Phenanthrene	ND	ND	4.99	1,000 / 2,500
Pyrene	1.86	ND	5.56	700 / 5,000

ND = Not Detected

All results presented in bold face exceed applicable MA-DEP Cleanup Standards

Several PAH parameters, listed above for samples S-1 and S-3, exceed the applicable MA DEP S-1 Cleanup Standards. As such, excavation beneath the driveway surface would be required to reduce these levels to background conditions at the site. These samples also exceed the category Method 1 S-3 Cleanup Standards for Benzo(a)pyrene. Sample S-1 exceeds the Method 1 S-3 Cleanup Standards for Benzo(b)fluoranthene, and Dibenzo(a)anthracene. All EPH parameters and the remainder of the PAH parameters for which these samples were analyzed exhibited concentrations of these parameters which are well below the applicable Cleanup Standards.

Additional Excavation - October 6, 1997

CEA and Zecco personnel returned to the site on October 6, 1997 to conduct additional excavation of impacted soils beneath the concrete and asphalt paved driveway area. Mr. Bresnahan of the MA DEP had previously granted additional IRA verbal approval for the excavation of up to ten cubic yards of fuel oil impacted soil from this area on October 3, 1997.

Approximately ten cubic yards of soil were subsequently excavated on October 6th beneath the impacted portion of the driveway area. The excavation area was approximately 150 square feet and proceeded to a maximum depth of approximately three feet below grade. Soil in the excavation area was monitored by both olfactory means and by Photoionization. Upon completion of the excavation, representative composite soil samples were collected from the maximum extent of the excavation area. These samples exhibited no fuel oil odors and, when screened for TOV in the field, these samples exhibited fuel oil vapor levels below that which could be detected by the PID (ND). Samples S1-B, S2-B, and S3-B were subsequently submitted for laboratory analysis for EPH and associated PAH parameters. Locations of all soil samples are included in Figure 2. Results of these analyses are included in Attachment 1 and are summarized below in Table 3.

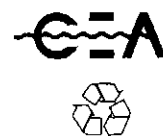


Table 3
 Soil Analytical Results
 October 6, 1997

EPH and PAH Parameters	S-1B (ppm)	S-2B (ppm)	S-3B (ppm)	MA-DEP Cleanup Standards
Depth below Grade (ft)	2.5 to 3	2.5	2.5	----
PID (ppm)	ND	ND	ND	----
C9-C18 Aliphatics	ND	3	2	1,000
C19-C36 Aliphatics	17	130	57	2,500
C10-C22 Aromatics	9	57	98	800
Total EPH	26	200	157	----
Anthracene	ND	ND	ND	1,000 / 5,000
Benzo(a)anthracene	ND	ND	4.0	0.7 / 4.0
Benzo(a)pyrene	ND	ND	3.0	0.7 / 0.7
Benzo(b)fluoranthene	ND	ND	5.0	0.7 / 4.0
Benzo(ghi)perylene	ND	ND	2.0	1,000 / 2,500
Benzo(k)fluoranthene	ND	ND	ND	7.0 / 40
Chrysene	ND	ND	4.0	7.0 / 40
Dibenzo(a,h)anthracene	ND	ND	3.0	0.7 / 0.8
Fluoranthene	ND	1.0	1.0	1,000 / 5,000
Phenanthrene	ND	ND	5.0	1,000 / 2,500
Pyrene	ND	1.0	8.0	700 / 5,000

ND = Not Detected

All results presented in bold face exceed applicable MA-DEP Cleanup Standards

Samples S1-B, S2-B, and S3-B exhibit EPH parameter concentrations which are well below the applicable MA DEP soil Cleanup Standards. Samples S1-B and S2-B also exhibit PAH parameter concentrations which are well below the applicable Cleanup Standards. Sample S-3, however, exhibits concentrations of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, and Dibenzo(a,h)anthracene which exceed the both the category S-1 and S-3 soil Cleanup Standards. These elevated PAH parameter levels are not, however, believed to be related to the subject #6 fuel oil release.

Mr. Maurice O'Connell the Plant Superintendent at the Fernald School informed CEA personnel that several releases of #6 fuel oil had occurred in the subject release area. According to Mr. O'Connell, the largest of these releases occurred approximately thirty years ago, when what was estimated to be over 100 gallons of #6 fuel oil were released to the driveway surface during a routine filling of the USTs at the site. Although the surficial impact of this release was remediated, no excavation or assessment of the soils beneath the driveway were performed in response to the release. Mr. O'Connell reported that the concrete driveway surface at that time was in poor condition, containing several cracks or partings.

During the excavation in this area on October 6, 1997, CEA personnel noted that soil beneath the driveway in the excavation area was significantly stained and exhibited a highly degraded texture. Soil in the entire excavation area, including the location where sample S-3B was collected, however, exhibited no fuel oil odors and TOV levels below that which could be detected by the PID, suggesting that this soil had likely been impacted by a historic release and that the volatile fuel hydrocarbon constituents introduced into this soil as a result of the historic releases had dissipated over time, leaving only heavier petroleum constituents in the soil such as Benzo(a)anthracene and Benzo(a)pyrene. In addition, sample S3-B was collected from the most upgradient portion of the excavation area, where there were relatively fewer cracks in the concrete and asphalt. A bulk of the fuel oil released to the driveway surface pooled in the driveway adjacent to the edge of the stairs leading up to the fill port pad in an area where the



concrete was highly fractured. It is reasonable to expect that soil impact in this area would be greater at equivalent depths within the subsurface.

As such, it is reasonable to correlate the remaining impact to the soil beneath the driveway in the area of Sample S-3B with historic releases of #6 fuel oil at the site which migrated vertically into these soils via fractures in the driveway surface. Elevated levels of specified PAH parameters should be considered representative of background conditions at the site.

Upon completion of the excavation on October 6th, the subject release had been fully remediated. All soil excavated from the stream bed on August 20th and stockpiled on-site, and all soil excavated on October 6th, a total of 25.5 tons, was transported to the AMREC facility in Charlton, Massachusetts for disposal under the Bill of Lading process on October 8, 1997. The excavation area was subsequently backfilled with clean fill, and a new concrete surface was poured.

Upon the departure of CEA and Zecco personnel from the site on October 6, 1997, no additional response actions would be required at the site relative to the subject release, and all remedial waste generated had been transported from the site and disposed of as described herein.

Management of Remediation Waste:

All remedial waste generated during the initial response to the release on August 19th, including absorbent pads and booms, granular absorbent, and a small volume (< 1 cubic yard) of hand-dug soil from the stream bed were temporarily stored on-site in three 17H DOT drums. This waste (2,400 pounds) was subsequently removed from the site and disposed of at Northland Environmental, Inc. in Providence, Rhode Island under a Hazardous Waste Manifest on October 3, 1997.

On August 20, 1997, approximately four to five cubic yards of fuel oil impacted soil were excavated from the stream bed and temporarily stockpiled on site and secured with polyethylene sheeting.

This stockpiled soil, along with approximately ten cubic yards of fuel oil impacted soil excavated from beneath the driveway surface on October 6, 1997 (a total of 25.5 tons), were transported to the AMREC facility in Charlton, Massachusetts for recycling under the Bill of Lading process on October 8, 1997.

Copies of all disposal documentation are included in Attachment 2. No other wastes were generated as a result of the remedial actions associated with this release.

Response Action Outcome:

Risk Characterization

Based on the results of this investigation, a Method 2 Risk Characterization will be used to characterize risk at the site, pursuant to 310 CMR 0971(1), which states "Method 2 may be used to characterize the risk of harm to health, public welfare and the environment at disposal sites where assessments conducted in accordance with 310 CMR 40.0000 have determined that the presence of oil and/or hazardous material is limited to soil and/or groundwater."

Potential human and environmental receptors identified within a five hundred foot radius of the site include the subject site and the adjacent Fernald School property. According to the MA-DEP GIS map for the Northeast Region of Massachusetts, the release site is not situated within a one-half mile Interim Protection Wellhead Area nor is it situated within a Potential Drinking Water Source Area. In addition, there are no private water supply wells within 500 feet of the release area the subject site has a groundwater classification of GW-2 pursuant to 310 CMR 40.0932 (4), (5)(d). According to the MA DEP GIS Map for the Northeast Region of Massachusetts, an nonforested



freshwater wetland is located approximately 1/4 mile to the southwest of the release site. The drainage stream situated within release area discharges to this wetland area.

Using a Method 2 Risk Characterization, the impacted soils in the stream bed at the release site are categorized as S-1 pursuant to 310 CMR 40.0933 (5), "A child's and an adult's frequency and intensity of use are considered to be high pursuant to 40.0933 (4) (b) and (c)". Impacted soils beneath the asphalt and concrete parking lot surface at the site are categorized as S-3 pursuant to 310 CMR 40.0933(7)(c), "the soil is isolated pursuant to 310 CMR 40.0933(4)(c)(3), regardless of any receptor's frequency or intensity of use".

The site is currently utilized as a power plant for an educational institution. As a result of location and zoning constraints, the reasonably foreseeable use of the site is likely similar to current usage; therefore it is assumed that any future activities would not result in exposures to human and/or environmental receptors that are greater than the exposures associated with current site activities and uses.

Pursuant to 310 CMR 40.0926, for each oil and/or hazardous material identified in each medium at each exposure point, Exposure Point Concentrations shall be identified and documented.

Representative composite soil samples were collected from both the maximum extent of the excavation area in stream bed (Base) on August 20, 1997, and from upstream of the impacted portion of the stream bed (Stream-2) on October 6, 1997. Each of these samples was submitted for EPH and PAH analyses. As summarized in Table 1, the Base sample exhibited a total EPH concentration of 494 ppm and, exhibited PAH concentrations which were all below the method limit of detection for the specified analysis. The C9-C18 and C19-C36 Aliphatic, and C10-C22 Aromatic concentrations (24 ppm, 290 ppm, and 180 ppm respectively) are well below the applicable MA DEP S-1 Cleanup Standards. Sample 'Stream-2' exhibited a total EPH concentration of 184 ppm and no PAHs. The C9-C18 and C19-C36 Aliphatic, and C10-C22 Aromatic concentrations (5 ppm, 97 ppm, and 82 ppm respectively) in this sample are also well below the applicable MA DEP S-1 Cleanup Standard, and are considered representative of background conditions for the stream bed soils.

While the EPH Aliphatic and Aromatic concentrations are not representative of background conditions at the site, they are all significantly less than the Reportable Concentration of category S-1 soils pursuant to 310 CMR 40.1600. As such, a condition of 'No Significant Risk' has been reestablished for the stream bed portion of the release site.

On October 6, 1997, representative composite soil samples were collected from the maximum extent of the excavation area beneath the asphalt and concrete driveway surface in the subject release area. (samples S1-B, S2-B, and S3-B). These samples were collected from a maximum depth of approximately three feet below grade at the base of the excavation, and were subsequently submitted for laboratory analysis of EPH and PAHs. As summarized in Table 3, sample S1-B exhibited a total EPH concentration of 26 ppm. All PAH concentrations in this sample were below the method limit of detection for the specified analysis. The C9-C18 and C19-C36 Aliphatic and C10-C22 Aromatic concentrations in this sample (Not Detected, 17 ppm, and 9 ppm respectively) are significantly less than the applicable MA DEP S-1 Cleanup Standards. Sample S2-B exhibited a total EPH concentration of 200 ppm. All PAH concentrations in this sample, with the exception of Fluoranthene (1 ppm) and Pyrene (1 ppm), were below the method limit of detection for the specified analysis. The C9-C18 and C19-C36 Aliphatic, and the C10-C22 Aromatic concentrations for this sample (3 ppm, 130 ppm, and 57 ppm respectively) are significantly less than the applicable S-1 Cleanup Standard. Sample S3-B exhibited a total EPH concentration of 157 ppm. The C9-C18 and C19-C36 Aliphatic and C10-C22 Aromatic concentrations for this sample (2 ppm, 57 ppm, and 98 ppm respectively) are significantly less than the applicable S-1 Cleanup Standards. This sample did, however, exhibit concentrations of several PAH parameters which exceed both the S-1 and S-3 Cleanup Standards and S-1 Reportable Concentrations: Benzo(a)anthracene (4 ppm), Benzo(a)pyrene (3 ppm), Benzo(b+k)fluoranthene (5 ppm), and Dibenzo(a,h)anthracene (3 ppm). Several other PAH parameters exhibited concentrations which were significantly less than the S-1 Cleanup Standard including Benzo(g,h,i)perylene (2 ppm), Chrysene (4 ppm), Fluoranthene (1 ppm), Phenanthrene (5 ppm), and Pyrene (8 ppm).

All PAH and EPH parameter concentrations, listed above, for the samples collected from the driveway excavation at the release site are considered representative of background conditions for the soil in this area based upon



documented evidence of historic #6 fuel oil releases at this site and field observations and measurements, as detailed herein.

Soil conditions at the site meet the established criteria for a Response Action Outcome without the implementation of an Activity and Use Limitation relative to the subject release. As a result of the excavation conducted beneath the impacted portion of the driveway surface, petroleum hydrocarbon impact relative to the August 19th release has been reduced to background conditions and a condition of 'No Significant Risk' has been reestablished for the subject release in this area.

The groundwater in the vicinity of the release site does not appear to have been impacted by the #6 fuel oil release. EPH levels in the soils approached background conditions at the maximum depth of the excavation in both the dry stream bed and beneath the driveway surface prior to encountering groundwater. As such, there is no evidence to suggest that groundwater has been impacted as a result of the subject release, and the Exposure Point Concentration for groundwater is expected to remain consistent with background conditions.

A Permanent Solution for the subject release at the site has been achieved, and as such, a condition of no significant risk of harm to health, public welfare and the environment has been achieved in accordance with 310 CMR 40.0973(7).

Class Description of the Response Action Outcome and Method Characterization:

This Response Action Outcome (RAO) is classified as A-2 in accordance with provisions stipulated in 310 CMR 40.1036 (2). The source of the release has been eliminated and remedial activities performed under an IRA have reduced the magnitude of impact to levels which establish a condition of 'No Significant Risk' at the release site .

Relationship to other RAO Statements and Activity and Use Limitations

No other Response Action Outcome Statements have been filed for this site and, since the S-1 soil standards have not been exceeded as a result of the subject release, an Activity and Use Limitation will not be required.

Demonstration that All Uncontrolled Sources Have Been Eliminated or Controlled:

The release was evaluated visually, by Photoionization, and by olfactory means in the release area. Due to the prompt response to contain the release and recover a significant amount of the released fuel oil which had pooled on the driveway and dry stream bed surfaces, the release was contained to an approximate 200 square foot area of the driveway surface, an approximate five square foot area of the concrete retaining wall and fill port pad and stairs, and an approximate forty square foot area of the dry stream bed surface.

No catch basins or storm drains were observed to be impacted by the subject release.

The impacted area of the dry stream bed was evaluated by visual and olfactory means. Field evidence confirmed that the impact to the stream bed was confined to an approximate forty square foot area and that the released fuel oil had not migrated downstream beyond the immediate release area. A puddle of standing water on the stream bed, present on the day of the release, located approximately fifty feet downstream of the release area, showed no oil sheen or evidence of impact by the subject release. Much of the oil in the impacted area of the stream bed had pooled among several large boulders and was subsequently evacuated by means of a vacuum truck. The subsequent excavation of approximately five cubic yards of soil from the impacted portion of the stream bed reduced EPH concentrations in the stream bed soil to levels which are significantly less than the applicable MA DEP S-1 Cleanup Standards. As such, a condition of 'no significant risk' was reestablished for the stream bed portion of the subject release site. A stream bed soil sample collected from an area upstream of the release area confirmed that background conditions for the stream bed soils was 184 ppm total EPH. This stream serves as a surface drainage basin, and receives runoff from many of the upgradient road and parking lot surfaces on the Fernald School campus



As such, the background EPH levels in the stream bed soils is likely resultant of prolonged runoff from these upgradient surfaces and likely contribute to the EPH concentration measured in the release area.

Soil beneath the impacted area of the driveway surface at the site was first assessed for #6 oil impact relative to the subject release when it was observed that the concrete and asphalt surface in the release area was highly fractured and likely allowed for the vertical migration of oil product into this soil. Samples collected during this assessment exhibited concentrations of several PAH parameters which were in exceedance of the S-1 Cleanup Standards. As such, approximately ten cubic yards of impacted soil were subsequently excavated from this area. Two of the three samples collected upon completion of this excavation continued to exhibit elevated concentrations of these PAH parameters. All samples exhibited elevated EPH parameter concentrations. Field observations and documented historic evidence of additional #6 oil releases at the site indicate that these elevated EPH concentrations are not related to the subject release, and as such, are considered representative of background conditions at the release site. As a result of the excavation in this area, the soil beneath the driveway had been sufficient to reduce petroleum hydrocarbon concentrations in this soil resultant of the subject release to background conditions.

The maximum depth of the October 6th excavation beneath the driveway surface was approximately three feet. The area of the excavation was approximately 150 square feet and was performed directly beneath the portion of the concrete and asphalt surface which had been visibly stained by the subject release. From approximately one foot below grade to the maximum depth of the excavation in this area, there was no olfactory or Photoionization evidence of #6 oil impact. A ubiquitous layer of black-stained, dry, fine, ash-like, soil was present throughout the entire excavation area from directly beneath the concrete and asphalt to the maximum depth of the excavation. This layer did not appear to be concentrated specifically beneath the cracks in the concrete and asphalt surfaces, but was uniform in its texture and color in the entire excavation area. Upon completion of the excavation, it appeared that this material proceeded to the south and east beneath the unexcavated portions of the driveway surface. This soil material appeared to be highly weathered and exhibited no petroleum odors. When screened with a PID, this soil exhibited TOV levels below that which could be detected by the PID.

Mr. Maurice O'Connell, the plant superintendent at the Fernald School, informed CEA personnel that several releases of #6 fuel oil had occurred in the subject release area over the past thirty years. According to Mr. O'Connell, approximately 30 years ago, a release of over 100 gallons of #6 oil had occurred in the exact location where the August 19th release had occurred. Mr. O'Connell reported that the surficial impact resultant of this and several other smaller historic releases at the site had been remediated, but that no subsurface soil assessment or remediation had been performed beneath the driveway surface relative to these releases. In addition, Mr. O'Connell recalled that the concrete and asphalt driveway surface was also in nearly as poor a condition thirty years ago as in the present, and likely allowed for the migration of oil released in this location over the past thirty years to migrate beneath the driveway surface.

Samples S1-B, S2-B, and S3-B were all collected from an approximate depth of three feet below grade, upon completion of the excavation on October 6th. All of these samples exhibited no fuel oil odors, and exhibited TOV concentrations below that which could be detected by the PID. Upon laboratory analysis for EPH and PAH parameters, each of these three samples exhibited EPH Aliphatic and Aromatic concentrations at levels significantly less than the S-1 Cleanup Standards. Samples S2-B and S3-B also exhibited elevated levels of several PAH parameters. The levels of several PAH parameters in Sample-3B exceed both S-1 and S-3 Cleanup Standards.

These EPH and PAH concentrations are not believed to be associated with the subject August 19th #6 oil release. Visual evaluation of the soil material suggests that this soil was impacted by an historical release to a significantly greater extent than would be expected from what is likely less than five gallons of oil which seeped through cracks in the driveway surface during the subject release. The absence of fuel oil odors and TOV in this soil is not characteristic of recent (< 1 year) fuel oil impact, but suggests that nearly all volatile fuel oil constituents have dissipated over a longer period of time since initially being released to the soil. Heavier petroleum constituents, however, such as the EPH and PAH parameters detected in the subject soil samples would remain in the soil for longer periods of time, such that elevated levels of these parameters resultant of older releases at the site would be detected in current soil samples.



Sample S3-B, which exhibits the highest concentration of PAH and EPH parameters, was collected from the most upgradient portion of the excavation area, where there were relatively fewer cracks in the concrete and asphalt. A bulk of the fuel oil released to the driveway surface pooled in the driveway adjacent to the edge of the stairs leading up to the fill port pad in an area where the concrete was highly fractured. It is reasonable to expect that soil impact in this area would be greater at equivalent depths within the subsurface than in the location of sample S3-B.

Based on the evidence presented above, the existing concentrations of PAH and EPH parameters in the soil beneath the driveway surface should be considered representative of background conditions in this area, resultant of historic release condition(s) at the site. As such, excavation at the site on October 6, 1997 was sufficient to reduce petroleum impact in the soil beneath the driveway, relative to the subject release, to levels considered representative of background conditions, thus reestablishing a condition of 'no significant risk' at the site relative to the subject release.

The concentration of several PAH parameters detected in sample S3-B exceed MA DEP S-1 Reportable Concentrations, and as such constitute a reportable release condition at the site, not associated with the subject release.

It is the opinion of CEA that a permanent solution has been achieved for this release and that all uncontrolled sources of oil and/or hazardous materials related to this release have been eliminated via the response actions performed. It is further the opinion of CEA that the requirements of a Class A-2 RAO have been met.

Background Feasibility Investigation:

It is the opinion of CEA that the additional excavation which would be required to reduce the EPH levels in the soil in the impacted area of the stream bed to background levels is not feasible. Access to the impacted portion of the stream bed is extremely limited, as this area is located within a narrow (<10 width) gully contained by the the approximate eight foot high concrete retaining wall, and a steeply graded wooded slope. The maximum volume of soil which could be efficiently excavated by machine was done so on August 20th. Due to the high concentration of large boulders in the stream bed and relatively small volume of excavatable soil between these boulders, hand excavation of this soil material was determined to be neither a cost effective or feasible remediation option.

Based on the EPH results for the stream bed soils in this area, which are below the most stringent S-I standards, the cost feasibility to remove the remaining impacted soils in this discreet area was prohibitive relative to the environmental gain by reducing EPH levels in this area to background conditions.

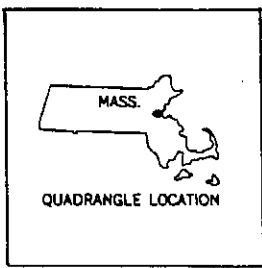
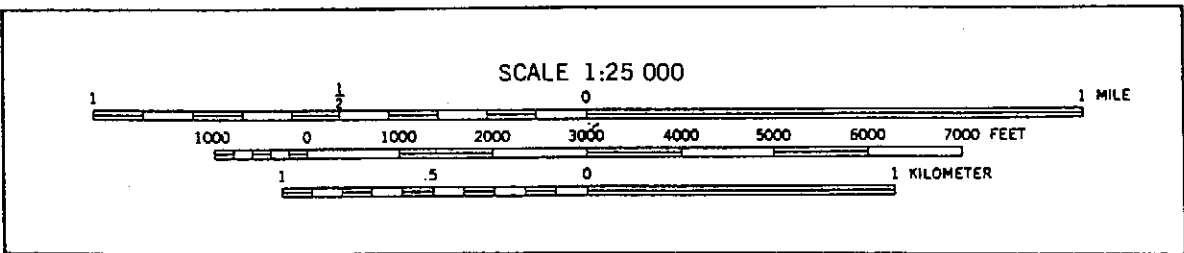
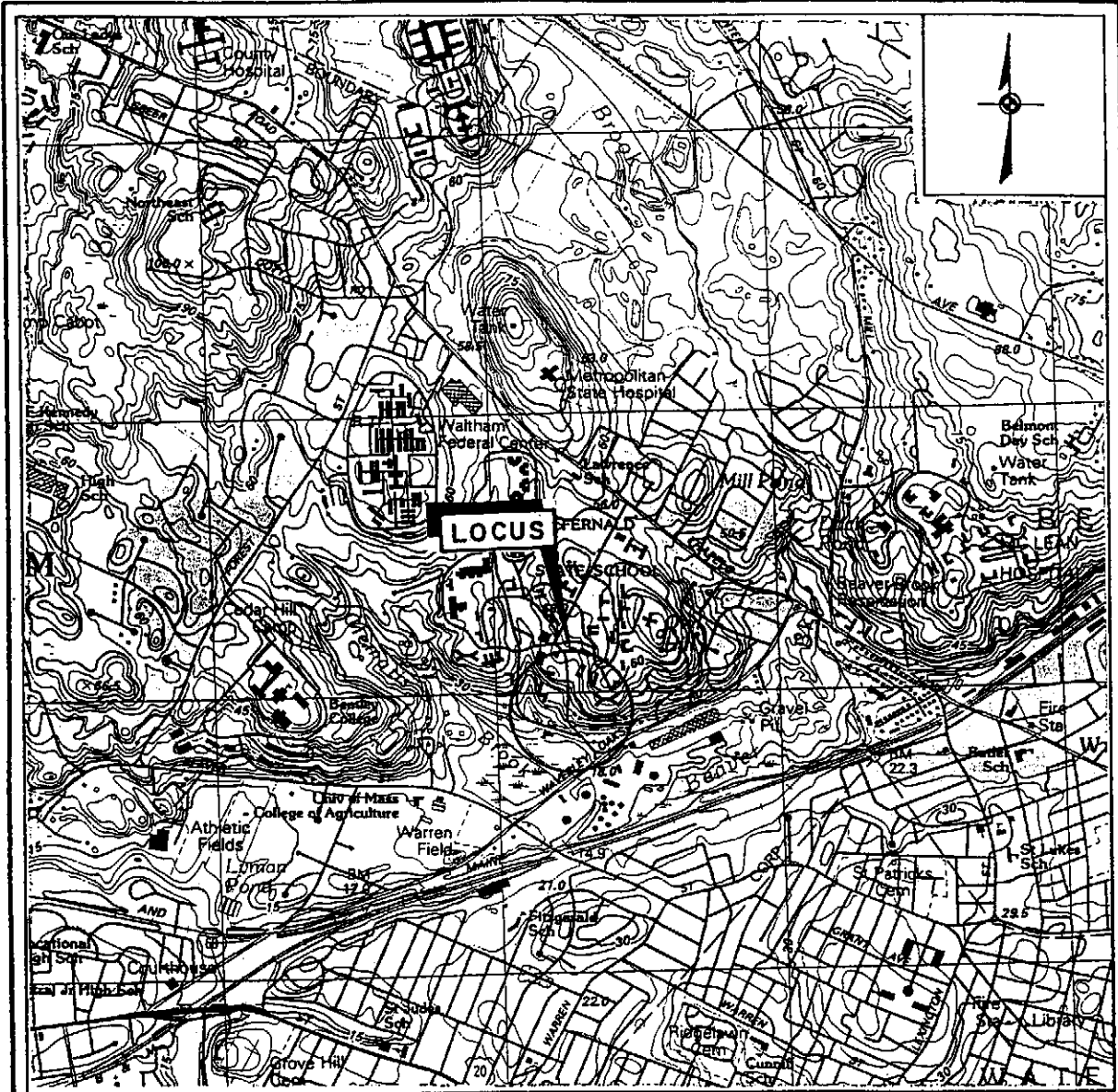
Residual soil impact at the site represents a condition of 'no significant risk'. Based on an evaluation of benefit-cost, it is not feasible to undertake additional activities which might achieve background conditions.

Public Notification:

Copies of letters submitted to the Chief Municipal Officer and the Board of Health for the City of Waltham are presented in **Attachment 3**.

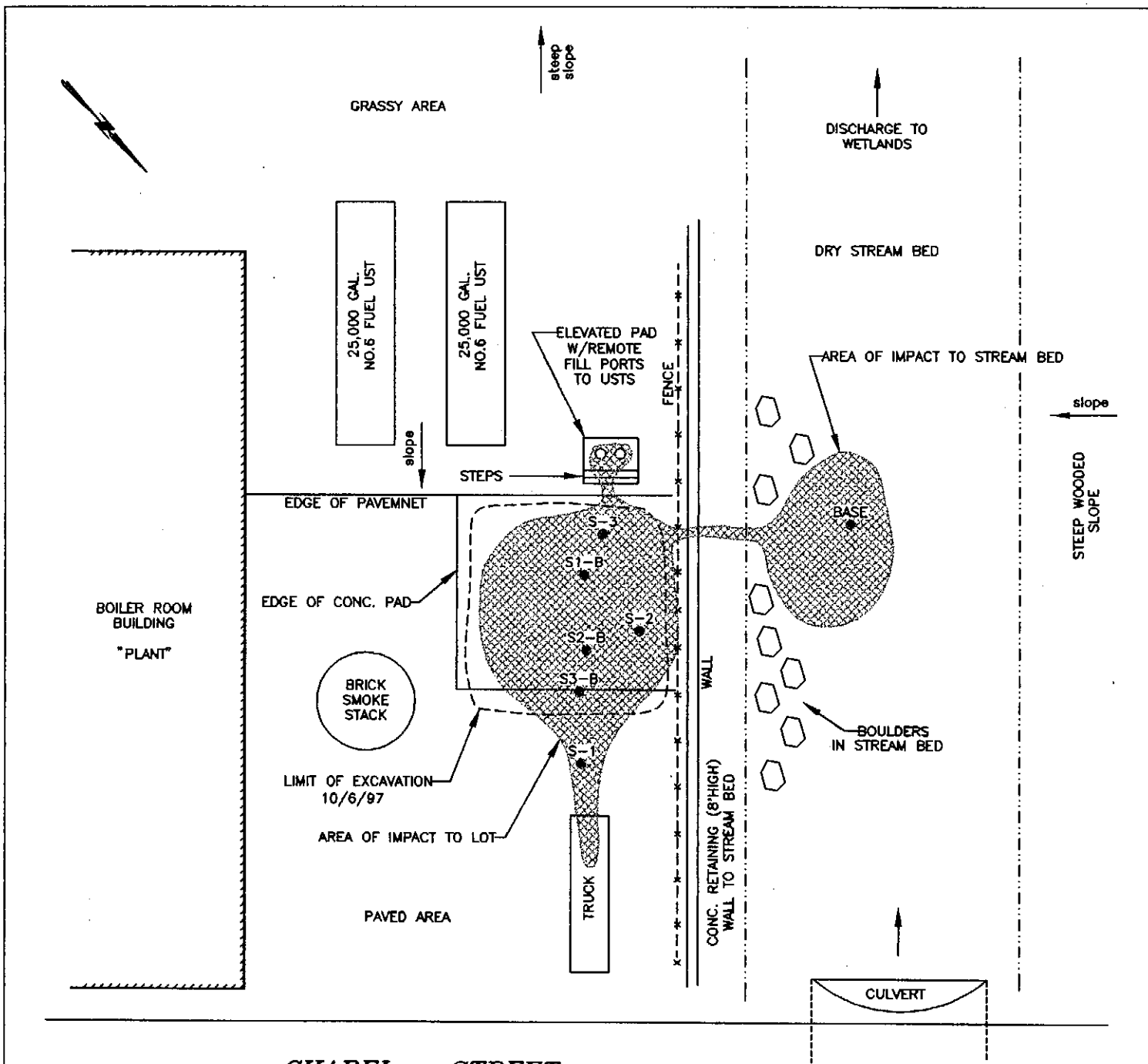


Figure 1
Site Locus



BOSTON NORTH, MASSACHUSETTS
 42071-D1-TM-025
 1985

FIGURE 1
 SITE LOCUS



CHAPEL STREET

CEA CORPORATE ENVIRONMENTAL ADVISORS, INC.
 Assessments - Remediation - Emergency Response
 127 HARTWELL ST. W. BOYLSTON, MA.

SCALE: NOT TO SCALE	DR. BY: K. HAZEL
DATE: 10/23/97	APP. BY: MEB
JOB NO.: 3404-97	

SITE LAYOUT

T.S. TRUCK SERVICE
 200 TRAPELO RD. FERNALD SCHOOL
 WALTHAM, MA.

FIGURE-2

NOTE:
 THIS PLAN IS COMPILED FROM RECORD PLANS AND FIELD MEASUREMENTS FOR THE SOLE PURPOSE OF REPRESENTING THE APPROXIMATE LOCATION OF SITE FEATURES AND UTILITIES.

Figure 2
Site Layout



Attachment 1
Soil Analytical Results



HYDROSAMPLE Zecco, Inc.

Serving America's Environment

August 22, 1997

Mr. Mick Robertson
CEA - Corporate Environmental Advisors
127 Hartwell Street
W. Boylston, MA 01583

LABORATORY ANALYSIS REPORT
Waltham, MA

Dear Mick,

Enclosed are the results of analyses performed on samples received at HYDROSAMPLE Laboratory on 8/20/97. As specified by the chain of custody documentation, this project was processed for a rush turnaround time.

This letter authorizes the release of the attached analytical data and should be considered an integral part of your report. In order to facilitate a quick response should you require additional information or wish to discuss the results of these analyses in greater detail, please refer to **our case number 40891**.

Our entire staff wishes to take this opportunity to Thank You for choosing HYDROSAMPLE, the analytical laboratory department of Zecco Incorporated. We've taken pride in providing you with what we believe to be the best possible service, and we will do everything we can to assure your complete satisfaction. We look forward to serving you again during your next important project and invite you to take advantage of our technical knowledge and expertise, solid reputation for thoroughness, quality and timely turnaround.

Please call upon me whenever I can be of further assistance. Your trust and goodwill are among my most valued assets, and I look forward to hearing from you.

Sincerely,



Alan C Ford
HYDROSAMPLE Laboratory Manager
Zecco Incorporated

CHAIN OF CUSTODY FORM

Laboratory Services Workorder

ZECCO INC - Hydrosample Laboratory
 367 W Main Street · Northboro MA 01532 · (508) 393-2537

Report To: CEA, Inc. Invoice To: CEA, Inc.
 127 Hartwell St. 48hrs 8/22
 W. Boylston, MA 01503
 Mick Robertson

Phone 508-855-8822 FAX 508-835-8812 Purchase Order No. _____
 Send Copy of Report To _____

#	HYDROSAMPLE ID NUMBER	SAMPLE IDENTIFICATION	MATRIX	COLLECTED		Grab or Composite	Preservative Code*	# of Containers Submitted
				DATE	TIME			
1	Disp	* MEB	soil	8/20/97	AM	e 1		2
2	Base	40891	soil	8/20/97	AM	c 1		2
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Client's Job No. _____ Laboratory Job No. 7LAC003

Site Location: Waltham, MA

Job Name: _____

Job No. _____

Received By: _____ Date: _____ Time: _____

Signature: _____

Received by Hydrosample: AC Ford Date: 8/20/97 Time: 3:15 pm

Signature: _____

Special Instructions/Comments: Full AMREC disposal parameters for stockpile sample
EPH for Base
Insufficient sample provided to process for disposal parameters

Signature: _____ Date: 8/20/97 Time: 1:52Z

Signature: _____

Sample Airborne FedEx UPS USMail

* Preservative Code: X = Unpreserved I = Isot H = HCl S = H₂SO₄ N = HNO₃ O = NaOH

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name:
Client Job No:
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 8/20/97
Lab Job No: 7LA0063
Lab Case No: 40891
Date Reported: 8/22/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
40891	Base	soil	8/20/97	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	77.	Percent	1	8/21/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	24,000.	µg/Kg	5,000	8/22/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	290,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	180,000.	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	494,000	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
6	Acenaphthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
7	Acenaphthylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
8	Anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
9	Benzo(a)anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
10	Benzo(a)pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
11	Benzo(b)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
12	Benzo(g,h,i)perylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
13	Benzo(k)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
14	Chrysene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
16	Fluoranthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
17	Fluorene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
19	Naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name:
Client Job No:
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 8/20/97
Lab Job No: 7LA0063
Lab Case No: 40891
Date Reported: 8/22/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH

Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
40891	Base	soil	8/20/97	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
20	Phenanthrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
21	Pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
22	2-Methyl naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾

(1) BDL - Below Detection Limit

(2) Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

(3) Method for the determination of Extractable Petroleum Hydrocarbons (EPH,) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE

Zecco, Inc.

Serving America's Environment

September 2, 1997

Mr. Mik Robertson
CEA - Corporate Environmental Advisors
127 Hartwell Street
W. Boylston, MA 01583

LABORATORY ANALYSIS REPORT
Ferral School - Waltham MA

Dear Mik,

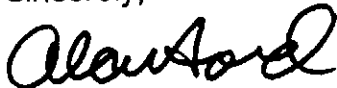
Enclosed are the results of analyses performed on samples received at HYDROSAMPLE Laboratory on 8/22/97. As specified by the chain of custody documentation, this project was processed for a standard turnaround time.

This letter authorizes the release of the attached analytical data and should be considered an integral part of your report. In order to facilitate a quick response should you require additional information or wish to discuss the results of these analyses in greater detail, please refer to **our case number 40927**.

Our entire staff wishes to take this opportunity to Thank You for choosing HYDROSAMPLE, the analytical laboratory department of Zecco Incorporated. We've taken pride in providing you with what we believe to be the best possible service, and we will do everything we can to assure your complete satisfaction. We look forward to serving you again during your next important project and invite you to take advantage of our technical knowledge and expertise, solid reputation for thoroughness, quality and timely turnaround.

Please call upon me whenever I can be of further assistance. Your trust and goodwill are among my most valued assets, and I look forward to hearing from you.

Sincerely,



Alan C Ford
HYDROSAMPLE Laboratory Manager
Zecco Incorporated

c: Dave Zalewski, Zecco Inc.

CHAIN OF CUSTODY FORM

Laboratory Services Workorder

ZECCO INC - Hydrosample Laboratory
 367 W Main Street · Northboro MA 01532 · (508) 383-2537

Report To: CETA INC Invoice To: Zecco
127 Northwell St
West Boylston MA 01583
 Phone: (508) 895-8822 FAX: 895-8812 D. Zalewski, Zecco · Purchase Order No. _____
 Send Copy of Report To _____
 Preservative Codes: _____

#	HYDROSAMPLE ID NUMBER	SAMPLE IDENTIFICATION	MATRIX	COLLECTED		Grab or Composite	TPH 8100m	TPH	# of Containers Submitted
				DATE	TIME				
1	40927	Stockpile	Ser 1	8/20		G	X		
2	40928	S-1	Ser 1	8/20		G	X		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Job Name: Fernald School Client's Job No. 3404-97

Site Location: Trapezoid Rd. Waltham MA Laboratory Job No. _____

Collected By: M. Brachy

Received By: _____ Date: _____ Time: _____
 Signature: _____

Received by Hydrosample: Gordon Date: 8/21 Time: 4:30m
 Signature: _____

Received by: Edward Gordon Date: 8/21/97 Time: 4:27m
 Signature: _____

Special Instructions/Comments: Composit Stockpile samples for 1 TPH ANALYSIS.

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Ferrald School
Client Job No: 3404-97
Site Location: Trapelo Rd., Waltham MA
Sampled By: M. Brochu

Date Received: 8/22/97
Lab Job No: 7LA0063
Lab Case No: 40927
Date Reported: 9/2/97

HYDROCARBON SCAN						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Date Extracted	Analytical Technique	
40927	Stockpile	soil	8/20	8/25/97	GC	
Line Number	Compounds Analyzed	Result ⁽¹⁾	Units Dry wt ⁽³⁾	Detection Limit	Date Analyzed	Method Reference ⁽²⁾
1	Total Solids	83.	Percent	0.10	8/25/97	2540B
2	Mineral Spirits	BDL	mg/Kg	1000.	8/27/97	8100M
3	Gasoline	BDL	mg/Kg	1000.	listed above	8100M
4	Fuel Oil #2/Diesel	BDL	mg/Kg	1000.	listed above	8100M
5	Fuel Oil #4	BDL	mg/Kg	1000.	listed above	8100M
6	Fuel Oil #6	BDL	mg/Kg	1000.	listed above	8100M
7	Motor Oil	19,000.	mg/Kg	1000.	listed above	8100M
8	Kerosene	BDL	mg/Kg	1000.	listed above	8100M
9	Transformer Oil	BDL	mg/Kg	1000.	listed above	8100M

⁽¹⁾ BDL - Below Detection Limit

⁽²⁾ Test Methods for Evaluating Solid Waste, USEPA, SW-846; Standard Methods for the Examination of Water & Wastewater, APHA.

⁽³⁾ Results have been corrected for moisture content and are reported on the dry weight basis.

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Ferrald School
Client Job No: 3404-97
Site Location: Trapelo Rd., Waltham MA
Sampled By: M. Brochu

Date Received: 8/22/97
Lab Job No: 7LA0063
Lab Case No: 40927
Date Reported: 9/2/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
40928	S-1	soil	8/20	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	95.	Percent	1	8/25/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	90,800.	µg/Kg	5,000	8/28/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	289,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	185,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	565,000.	µg/Kg	5,000	listed above	Draft 1.0⁽³⁾

⁽¹⁾ BDL - Below Detection Limit

⁽²⁾ Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

⁽³⁾ Method for the determination of Extractable Petroleum Hydrocarbons (EPH,) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE

Zecco, Inc.

Serving America's Environment

September 4, 1997

Mr. Marc Brochu
CEA - Corporate Environmental Advisors
127 Hartwell Street
W. Boylston, MA 01583

LABORATORY ANALYSIS REPORT
Fernald School

Dear Marc,

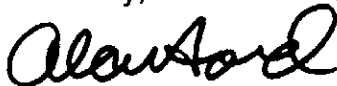
Enclosed are the results of analyses performed on samples received at HYDROSAMPLE Laboratory on 8/26/97. As specified by the chain of custody documentation, this project was processed for a standard turnaround time.

This letter authorizes the release of the attached analytical data and should be considered an integral part of your report. In order to facilitate a quick response should you require additional information or wish to discuss the results of these analyses in greater detail, please refer to **our case number 41007**.

Our entire staff wishes to take this opportunity to Thank You for choosing HYDROSAMPLE, the analytical laboratory department of Zecco Incorporated. We've taken pride in providing you with what we believe to be the best possible service, and we will do everything we can to assure your complete satisfaction. We look forward to serving you again during your next important project and invite you to take advantage of our technical knowledge and expertise, solid reputation for thoroughness, quality and timely turnaround.

Please call upon me whenever I can be of further assistance. Your trust and goodwill are among my most valued assets, and I look forward to hearing from you.

Sincerely,



Alan C Ford
HYDROSAMPLE Laboratory Manager
Zecco Incorporated

ZECCO INC - Hydrosample Laboratory
 367 W Main Street · Northboro MA 01532 · (508) 383-2537

CHAIN OF CUSTODY FORM
 Laboratory Services Workorder

Report To: CEA, Inc. Invoice To: CEA, Inc.

Report Due Date

127 Hartwell St.

W. Boylston, MA 01583

9/5/97

Marc Brochu

Send Copy of Report To

Phone 508-835-8822 FAX 508-835-8812

Purchase Order No.

Preservative Code*

Job Name: <u>Fernald School</u>		Client's Job No. <u>3404-97-1</u>		Grab or Composite		# of Containers Submitted
Site Location: <u>Waltham, MA</u>		Laboratory Job No. <u>7LA006</u>		<u>I</u>		
Collected By: <u>P.O.</u>		Matrix		Collected		
		DATE	TIME	DATE	TIME	
#	HYDROSAMPLE ID NUMBER	SAMPLE IDENTIFICATION				
1	41007	soil	8/25 PM	8/25	PM	
2	41008	soil	8/25 PM	8/25	PM	
3	41009	soil	8/25 PM	8/25	PM	
4						
5						
6						
7						
8						
9						
10						
11						
12						

Relinquished By <u>MARC E. BROCHU</u> Signature	Date <u>8/26/97</u>	Time <u>4:30 PM</u>	Received By <u>Edward Gregory</u> Signature	Date <u>8/26/97</u>	Time <u>1:00</u>
Relinquished By <u>Marc Brochu</u> Signature	Date <u>9/26/97</u>	Time <u>1:00</u>	Received By <u>Edward Gregory</u> Signature	Date <u>8/26/97</u>	Time <u>4:57</u>
Special Instructions/Comments <u>EPH for all samples</u>					

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41007	S-1	soil	8/25	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	94.	Percent	1.0	8/28/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	14,000.	µg/Kg	5,000	9/2/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	69,500.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	123,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	206,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
6	Acenaphthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
7	Acenaphthylene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
8	Anthracene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
9	Benzo(a)anthracene	2,070.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
10	Benzo(a)pyrene	2,870.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
11	Benzo(b)fluoranthene	4,710.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
12	Benzo(g,h,i)perylene	2,400.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
13	Benzo(k)fluoranthene	1,130.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
14	Chrysene	1,810.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
15	Dibenzo(a,h)anthracene	2,540.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
16	Fluoranthene	1,310.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
17	Fluorene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
19	Naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41007	S-1	soil	8/25	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
20	Phenanthrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
21	Pyrene	1,860.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
22	2-Methyl naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

(1) BDL - Below Detection Limit

(2) Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

(3) Method for the determination of Extractable Petroleum Hydrocarbons (EPH,) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE Zecco Incorporated

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41008	S-2	soil	8/25	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	95.	Percent	1.0	8/28/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	19,800.	µg/Kg	5,000	9/2/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	75,700.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	62,500.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	1,580,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
6	Acenaphthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
7	Acenaphthylene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
8	Anthracene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
9	Benzo(a)anthracene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
10	Benzo(a)pyrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
11	Benzo(b)fluoranthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
12	Benzo(g,h,i)perylene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
13	Benzo(k)fluoranthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
14	Chrysene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
16	Fluoranthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
17	Fluorene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
19	Naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

HYDROSAMPLE

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41008	S-2	soil	8/25	GC		
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
20	Phenanthrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
21	Pyrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
22	2-Methyl naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

⁽¹⁾ BDL - Below Detection Limit

⁽²⁾ Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

⁽³⁾ Method for the determination of Extractable Petroleum Hydrocarbons (EPH), Draft 1.0, Mass. Department of Environmental Protection, 1995.

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41009	S-3	soil	8/25	GC		
Line Number	List of Analytes	Result (1)	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	89.	Percent	1	8/28/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	65,600.	µg/Kg	5,000	9/2/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	113,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	103,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	282,000.	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
6	Acenaphthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
7	Acenaphthylene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
8	Anthracene	1,090.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
9	Benzo(a)anthracene	2,260.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
10	Benzo(a)pyrene	1,760.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
11	Benzo(b)fluoranthene	3,030.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
12	Benzo(g,h,i)perylene	1,110.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
13	Benzo(k)fluoranthene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
14	Chrysene	2,490.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
16	Fluoranthene	5,570.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
17	Fluorene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
19	Naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: P.O.

Date Received: 8/26/97
Lab Job No: 7LA0063
Lab Case No: 41007
Date Reported: 9/4/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification			Sample Matrix	Date Collected	Analytical Technique
41009	S-3			soil	8/25	GC
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt)	Detection Limit	Date Analyzed	Method Reference
20	Phenanthrene	4,990.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
21	Pyrene	5,560.	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾
22	2-Methyl naphthalene	BDL	µg/Kg	700	listed above	Draft 1.0 ⁽³⁾

⁽¹⁾ BDL - Below Detection Limit

⁽²⁾ Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

⁽³⁾ Method for the determination of Extractable Petroleum Hydrocarbons (EPH,) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE
Zecco, Inc.
Serving America's Environment

October 10, 1997

Mr. Mark Brochu
CEA - Corporate Environmental Advisors
127 Hartwell Street
W. Boylston, MA 01583

LABORATORY ANALYSIS REPORT
Fernald School - Waltham MA

Dear Mark,

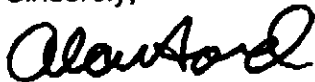
Enclosed are the results of analyses performed on samples received at HYDROSAMPLE Laboratory on 10/7/97. As specified by the chain of custody documentation, this project was processed for a rush turnaround time.

This letter authorizes the release of the attached analytical data and should be considered an integral part of your report. In order to facilitate a quick response should you require additional information or wish to discuss the results of these analyses in greater detail, please refer to **our case number 41436**.

Our entire staff wishes to take this opportunity to Thank You for choosing HYDROSAMPLE, the analytical laboratory department of Zecco Incorporated. We've taken pride in providing you with what we believe to be the best possible service, and we will do everything we can to assure your complete satisfaction. We look forward to serving you again during your next important project and invite you to take advantage of our technical knowledge and expertise, solid reputation for thoroughness, quality and timely turnaround.

Please call upon me whenever I can be of further assistance. Your trust and goodwill are among my most valued assets, and I look forward to hearing from you.

Sincerely,



Alan C Ford
HYDROSAMPLE Laboratory Manager
Zecco Incorporated

CHAIN OF CUSTODY FORM

Laboratory Services Workorder

ZECCO INC - Hydrosample Laboratory
 367 W Main Street · Northboro MA 01532 · (508) 393-2537

Report To: CEA, Inc.
 127 Hartwell St.
 W. Boylston, MA
 Marc Brochu

Report Due Date: Oct 10, 1997
 Friday

Invoice To: CEA, Inc.

Phone: 508-835-8822 FAX: 508-835-8812

Send Copy of Report To

Purchase Order No. 3404-97-1

#	HYDROSAMPLE ID NUMBER	SAMPLE IDENTIFICATION	MATRIX	COLLECTED		Chart's Job No.	Lab Job No.	Special Instructions/Comments
				DATE	TIME			
1	41436	S-1B	Soil	10/6/97	PM	3404-97-1		
2	41437	S-2B	Soil	10/6/97	PM			
3	41438	S-3B	Soil	10/6/97	PM			
4	41439	STREAM 2	Soil	10/6/97	PM			
5								
6								
7								
8								
9								
10								
11								
12								

Job Name: Fernald School
 Site Location: Waltham, MA
 Collected By: MEB

Analyzed By: <u>MARC BROCHU</u> Signature: <u>[Signature]</u> Date: <u>10/7/97</u> Time: <u>5:55pm</u>	Received By: <u>COUDON T. P.P.</u> Signature: <u>[Signature]</u> Date: <u>10/7/97</u> Time: <u>4:36pm</u>
Prepared by: <u>[Signature]</u> Date: <u>10/7/97</u> Time: <u>4:36pm</u>	Special Instructions/Comments: <u>All Samples submitted for EPH analysis</u> <u>Need results by Friday 10/10</u>

Sample Delivery Counter Hand: _____
 Airborne FedEx UPS USMail
 Sheet # 1 of 1

X = Unpreserved I = bed H = HCl S = H₂SO₄ N = HNO₃ O = NaOH
 T = Na₂SO₄ A = _____
 * Preservative Code

**HYDROSAMPLE
Zecco Incorporated**

357 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH							
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique			
41436	S-1B	soil	10/8/97	GC			
Line Number	Name of Analyte	Result (1)	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference	
1	Total Solids	87.	Percent	1	10/10/97	160.3 ⁽²⁾	
2	C ₉ - C ₁₈ Aliphatics	BDL	µg/Kg	1,000	10/9/97	Draft 1.0 ⁽³⁾	
3	C ₁₉ - C ₂₈ Aliphatics	17,000.	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
4	C ₁₀ - C ₂₂ Aromatics	9,000.	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
5	Total Extractable Petroleum Hydrocarbons	26,000	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾	
6	Acenaphthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
7	Acenaphthylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
8	Anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
9	Benzo(a)anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
10	Benzo(a)pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
11	Benzo(b)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
12	Benzo(g,h,i)perylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
13	Benzo(k)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
14	Chrysene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽²⁾	
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
16	Fluoranthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
17	Fluorene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
19	Naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	

HYDROSAMPLE

HYDROSAMPLE Zecco Incorporated

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH

Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41436	S-1B	soil	10/6/97	GC		
Line Number	List of Analytes	Result (1)	Units (dry wt)	Detection Limit	Date Analyzed	Method Reference
20	Phenanthrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
21	Pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
22	2-Methyl naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾

(1) BDL - Below Detection Limit

(2) Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.

(3) Method for the determination of Extractable Petroleum Hydrocarbons (EPH) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE

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367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH							
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique			
41437	S-2B	soil	10/6/97	GC			
Line Number	List of Analytes	Result (1)	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference	
1	Total Solids	85.	Percent	1	10/10/97	160.3 ⁽²⁾	
2	C ₉ - C ₁₈ Aliphatics	3,000.	µg/Kg	2,000	10/9/97	Draft 1.0 ⁽³⁾	
3	C ₁₀ - C ₃₆ Aliphatics	130,000.	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
4	C ₁₀ - C ₂₂ Aromatics	67,000.	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
5	Total Extractable Petroleum Hydrocarbons	200,000	µg/Kg	6,000	listed above	Draft 1.0 ⁽³⁾	
6	Acenaphthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
7	Acenaphthylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
8	Anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
9	Benzo(a)anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
10	Benzo(a)pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
11	Benzo(b)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
12	Benzo(g,h,i)perylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
13	Benzo(k)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
14	Chrysene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
16	Fluoranthene	1,000.	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
17	Fluorene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
19	Naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	

HYDROSAMPLE

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH							
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique			
41437	S-2B	soil	10/8/97	GC			
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt)	Detection Limit	Date Analyzed	Method Reference	
20	Phenanthrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
21	Pyrene	1,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
22	2-Methyl naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	

(1) BDL - Below Detection Limit
 (2) Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.
 (3) Method for the determination of Extractable Petroleum Hydrocarbons (EPH), Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE Zecco Incorporated

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH							
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique			
41438	S-3B	soil	10/6/97	GC			
Line Number	List of Analytes	Result (1)	Units (dry wt)	Detection Limit	Date Analyzed	Method Reference	
1	Total Solids	86	Percent	1	10/10/97	160.3 ⁽²⁾	
2	C ₉ - C ₁₈ Aliphatics	2,000	µg/Kg	1,000	10/9/97	Draft 1.0 ⁽³⁾	
3	C ₁₉ - C ₃₆ Aliphatics	57,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
4	C ₁₀ - C ₂₂ Aromatics	98,000	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
5	Total Extractable Petroleum Hydrocarbons	157,000	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾	
6	Acenaphthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
7	Acenaphthylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
8	Anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
9	Benzo(a)anthracene	4,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
10	Benzo(a)pyrene	3,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
11	Benzo(b+k)fluoranthene (Coelution prevents separation in this sample)	5,000	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
12	Benzo(g,h,i)perylene	2,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
14	Chrysene	4,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
15	Dibenzo(a,h)anthracene + Indeno(1,2,3-cd)pyrene (Coelution prevents separation in this sample)	3,000	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾	
16	Fluoranthene	1,000	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
17	Fluorene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
19	Naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	

HYDROSAMPLE

**HYDROSAMPLE
Zecco Incorporated**

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH							
Sample Number	Sample Identification			Sample Matrix	Date Collected	Analytical Technique	
41438	S-3B			soil	10/6/97	GC	
Line Number	List of Analytes	Result ⁽¹⁾	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference	
20	Phenanthrene	5,000.	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
21	Pyrene	8,000.	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	
22	2-Methyl naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾	

(1) BDL - Below Detection Limit
 (2) Methods for Chemical Analysis of Water and Wastes, USEPA, 600/4-79-020.
 (3) Method for the determination of Extractable Petroleum Hydrocarbons (EPH.) Draft 1.0, Mass. Department of Environmental Protection, 1995.

HYDROSAMPLE Zecco Incorporated

367 West Main Street, Northboro MA 01532
Tel (508) 393-7222 • Fax (508) 393-3074

REPORT OF ANALYSIS

Job Name: Fernald School
Client Job No: 3404-97-1
Site Location: Waltham, MA
Sampled By: MEB

Date Received: 10/7/97
Lab Job No: 7LA0063
Lab Case No: 41436
Date Reported: 10/10/97

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS - EPH						
Sample Number	Sample Identification	Sample Matrix	Date Collected	Analytical Technique		
41439	Stream 2	soil	10/6/97	GC		
Line Number	List of Analytes	Result (1)	Units (dry wt.)	Detection Limit	Date Analyzed	Method Reference
1	Total Solids	90.	Percent	1	10/10/97	160.3 ⁽²⁾
2	C ₉ - C ₁₈ Aliphatics	5,000.	µg/Kg	1,000	10/9/97	Draft 1.0 ⁽³⁾
3	C ₁₉ - C ₃₆ Aliphatics	97,000.	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
4	C ₁₀ - C ₂₂ Aromatics	82,000.	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
5	Total Extractable Petroleum Hydrocarbons	184,000	µg/Kg	5,000	listed above	Draft 1.0 ⁽³⁾
6	Acenaphthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
7	Acenaphthylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
8	Anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
9	Benzo(a)anthracene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
10	Benzo(a)pyrene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
11	Benzo(b)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
12	Benzo(g,h,i)perylene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
13	Benzo(k)fluoranthene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
14	Chrysene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
15	Dibenzo(a,h)anthracene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
16	Fluoranthene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
17	Fluorene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾
18	Indeno(1,2,3-cd)pyrene	BDL	µg/Kg	2,000	listed above	Draft 1.0 ⁽³⁾
19	Naphthalene	BDL	µg/Kg	1,000	listed above	Draft 1.0 ⁽³⁾

HYDROSAMPLE

Attachment 2
Remedial Waste Disposal Documentation





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 elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MF5 088390040	Manifest Document No. 53136		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address T & S TRUCK SERVICE 7 CRISTO LN. MILLEURY MA 01527				A. State Manifest Document Number MA J 653136			
4. Generator's Phone 508-839-0040				B. State Trans. ID MA 0215			
5. Transporter 1 Company Name ZCCO, Inc.		6. US EPA ID Number MA00 52924495		C. State Trans. ID MA 1P5P			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 508-393-2537			
9. Designated Facility Name and Site Address NORTHLAND ENVIRONMENTAL, INC. 275 ALLENS AVENUE PROVIDENCE RI 02905				E. State Trans. ID			
				F. Transporter's Phone			
				G. State Facility's ID NOT REQUIRED			
				H. Facility's Phone 401-781-6380			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. STATE REGULATED JILY MATERIAL NON-RCRA, NON-DOT REGULATED		NO. Type		Waste No.			
		007 02400		HA01			
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)		K. Handling Codes for Wastes Listed Above					
a. (S)BILY SOLIDS		b. S01					
a. PROFILE#28501-G							
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: ZCCO, INC. (800)442-5336 REF: 75 RDS 18 W06104863							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Kevin Johnson		Signature <i>Kevin Johnson</i>		Date 09/30/97			
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>Steve M. Lawrence</i>		Date 09/30/97			
18. Transporter 2 Acknowledgement 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.							
Printed/Typed Name William T. Lawrence		Signature <i>William T. Lawrence</i>		Date 10/13/97			

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

GENERATOR

TRANSPORTER

FACILITY

Form Approved OMB No. 2050-0039. Expires 9-30-98
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.



Release Tracking Number *

3-15442

BILL OF LADING (pursuant to 310 CMR 40.0030)

LB

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

Release Name (optional): Fernald School
 Street: 200 Trapelo Road Location Aid: _____
 City/Town: Waltham Zip Code: 02154 - _____
 Date/Period of Generation: 8 / 09 / 97 to / /
 Additional Release Tracking Numbers Associated with this Bill of Lading: _____

**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.*

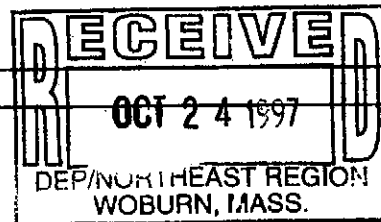
B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING:

Name of Organization: T. S. Truck Service
 Name of Contact: Jay Howard Title: President
 Street: 7 Christo Lane
 City/Town: Millbury State: MA Zip Code: 01527 - _____
 Telephone: 508 - 799 - 7629 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: Zecco, Inc.
 Contact Person: Dave Zalewski Title: _____
 Street: 345 West Main Street
 City/Town: Northboro State: MA Zip Code: 01532 - _____
 Telephone: 800 - 442 - 5336 Ext. _____

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

Operator/Facility Name: AMREC
 Contact Person: Bill McCambridge Title: Manager
 Street: 130 Sturbridge Road
 City/Town: Charlton State: MA Zip Code: 01508 - _____
 Telephone: 508 - 248-3777 Ext. _____

- Type of Facility: (check one)
- Asphalt Batch/Cold Mix
 - Asphalt Batch/Hot Mix
 - Thermal Processing
 - Landfill/Disposal
 - Landfill/Daily Cover
 - Landfill/Structural Fill
 - Incinerator
 - Temporary Storage
 - Other: _____

Division of Hazardous Waste/Class A Permit #: 100300 Division of Solid Waste Management Permit #: _____ EPA Identification #: MAD982201055

Actual/Anticipated Period of Temporary Storage (specify dates if applicable): / / to / /

Reason for Temporary Storage (if applicable): _____



Release Tracking Number:

3 - 15442

BILL OF LADING (pursuant to 310 CMR 40.0030)

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 Absorbant Materials Other: _____

Non-hazardous Uncontainerized Waste (circle all that apply): Non-aqueous Phase Liquid Other: _____

Non-hazardous Containerized 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: Cubic Yards: 15 Tons: _____ Other: _____

Contaminant Source (check one/specify): Transportation Accident Underground Storage Tank Other: hose rupture during delivery to US

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: Corporate Environmental Advisors, Inc.

LSP Name: Lawrence H. Lessard Title: Director of Operations

Telephone: 508 - 835 - 8822 Ext. 227

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 the permit. I am aware that significant penalties including, but not limited to, possible fines and imprisonment may result if I willfully submit information which I know to be false, inaccurate, or materially incomplete.

Signature: [Handwritten Signature] Seal:

Date: 9/2/97

License Number: 9763



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 wilfully submitting false, inaccurate, or incomplete information.

Signature: Joseph M. Howard
 Name of Person (print): JOSEPH HOWARD

Date: 10/3/97



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-012B

BILL OF LADING (pursuant to 310 CMR 40.0030)
LOG SHEET _____ OF _____

Release Tracking Number:

3-15442

LOAD INFORMATION:

LOAD 1: Signature of Transporter Representative: John Tayan
Date of Shipment: 10/6/97 Time of Shipment: 3:00 (circle one) am/pm
Truck/Tractor Registration: MA18856 Trailer Registration (if any): MA2783

Receiving Facility/Temporary Storage Representative: Amrec WSM
Date of Receipt: 10/8/97 Time of Receipt: 7:58
(circle one) am/pm
Load Size (cu. yds./tons): 25.50

LOAD 2: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

LOAD 3: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

LOAD 4: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

LOAD 5: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

LOAD 6: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

LOAD 7: Signature of Transporter Representative: _____
Date of Shipment: ____/____/____ Time of Shipment: ____:____ (circle one) am/pm
Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____
Date of Receipt: ____/____/____ Time of Receipt: ____:____
(circle one) am/pm
Load Size (cu. yds./tons): _____

J. LOG SHEET VOLUME INFORMATION:

Total Volume This Page (cu. yds./tons) 25.50
Total Carried Forward (cu. yds./tons): _____
Total Carried Forward and This Page (cu. yds./tons): _____

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-012C

BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET

Release Tracking Number:

3-15442

L. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE LOCATION:

Receiving Facility/Temporary Location Representative (print): W. Mc Cambridge Title: manager
Signature: W. Mc Cambridge Date: 10/8/97

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 wilfully submitting false, inaccurate, or incomplete information.

Signature: Joseph M. Howard Date: 10/9/97
Name of Person (print): JOSEPH M. HOWARD



BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET

Release Tracking Number:

3 - 15442

L. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE LOCATION:

Receiving Facility/Temporary Location Representative (print): _____ Title: _____
Signature: _____ Date: ___/___/___

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 wilfully submitting false, inaccurate, or incomplete information.

Signature: Joseph M. Howard Date: 10/9/97
Name of Person (print): JOSEPH M. HOWARD

Attachment 3
Public Notification





CORPORATE ENVIRONMENTAL ADVISORS, INC.

October 24, 1997

City of Waltham
Board of Health
610 Main Street
Waltham, MA 02154

RE: Notice of Availability of RAO
Fernald School - Plant
200 Trapelo Road
Waltham, MA
MA-DEP RTN: 3-15442
CEA Ref. File # 3404-97-1

Dear Sir / Madam:

As promulgated within 310 CMR 40.0000 of the Massachusetts Contingency Plan (MCP), this letter serves as official notification that a Response Action Outcome Statement (RAO) for the above-referenced location has been filed with the Massachusetts Department of Environmental Protection (MA-DEP).

If you have any questions regarding this submittal or would like to obtain a copy of said document, please do not hesitate to contact the undersigned at (508) 835-8822.

Sincerely,

CEA, Inc.

Marc E. Brochu
Hydrogeologist

MEB:meb

pc: T.S. Truck Service, Inc.
Mr. Jay Howard
7 Christo Lane
Millbury, MA 01527

Lawrence H. Lessard, LSP
CEA, Inc.



CORPORATE ENVIRONMENTAL ADVISORS, INC.

October 24, 1997

City of Waltham
Chief Municipal Officer
610 Main Street
Waltham, MA 02154

RE: Notice of Availability of RAO
Fernald School - Plant
200 Trapelo Road
Waltham, MA
MA-DEP RTN: 3-15442
CEA Ref. File # 3404-97-1

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If you have any questions regarding this submittal or would like to obtain a copy of said document, please do not hesitate to contact the undersigned at (508) 835-8822.

Sincerely,

CEA, Inc.

Marc E. Brochu
Hydrogeologist

MEB:meb

pc: T.S. Truck Service, Inc.
Mr. Jay Howard
7 Christo Lane
Millbury, MA 01527

Lawrence H. Lessard, LSP
CEA, Inc.