

Environmental
Resources
Management

399 Boylston Street, 6th Floor
Boston, Massachusetts 02116
(617) 267-8377
(617) 267-6447 (fax)

<http://www.erm.com>



ERM

17 November 1998
Reference: 325-24

Massachusetts Department of Environmental Protection
Northeast Regional Office
205 Lowell Street
Wilmington, MA 01887

RE: Release Abatement Measure Plan
Industrial Park Drive
Boston, Cambridge and Somerville, Massachusetts
(Release Tracking Number 3-11533)

Dear Sir or Madam:

On behalf of Boston & Maine Railroad Corporation (B&M), Environmental Resources Management (ERM) is submitting this Release Abatement Measure (RAM) Plan to remove an eight-foot diameter, 15,000-gallon tank at the B&M Railyard property located at Industrial Park Drive in Boston, Cambridge and Somerville, Massachusetts. This RAM Plan was prepared in accordance with the requirements of 310 CMR 40.0444 of the Massachusetts Contingency Plan (MCP).

BACKGROUND

The B&M Railyard site is approximately 30 acres in size and is located in Boston, Cambridge, and Somerville, Massachusetts. The site has been used for railroad operations since the early 1800's and consists of a railroad yard, with a few small buildings. There are currently no mechanical, repair facilities or fueling facilities located on site. A tank is located in the northeast portion of the site, which is used hold petroleum product from the adjacent Boston Engine Terminal (BET) oil/water separator owned by the MBTA. The portion of the site where the tank is located is leased by the Massachusetts Bay Transit Authority (MBTA) and operated by Amtrak under contract with the MBTA. Although the tank is technically an underground storage tank (UST), it is located only partially underground. The tank is surrounded soil with a 4- to 6-foot berm.

PURPOSE & SCOPE

The purpose of this RAM Plan is to outline responsibilities and procedures for removing the tank in order to obtain Department approval in accordance with 310 CMR 40.0443. The remainder of this RAM Plan is formatted consistent with the requirements of 310 CMR 40.0444 (1).

a) Name, address, telephone number and relationship of the person assuming responsibility for the RAM;

Name: Cynthia Scarano – Project Manager

Relationship: B&M Railroad Corporation

Address: Iron Horse Park, North Billerica, MA 01862

Telephone: (978) 633-6957 Fax: (978) 663-1143

Additional information is contained in Attachment A - RAM Transmittal Form (BWSC-106).

b) Description of the release, site conditions and surrounding receptors;

ERM conducted an Environmental Site Assessment (ESA) of the site in 1994 to identify and characterize potential liabilities associated with the property. As part of this investigation, the DEP was notified of a historical release relative to Non-Aqueous Phase Liquid (NAPL) detected in one monitoring well in the vicinity of the oil/water separator. The DEP assigned RTN 3-11533 to the release.

In July 1995, ERM conducted additional subsurface investigation in the oil/water separator area to evaluate the extent of separate phase hydrocarbons. ERM concluded that the source of petroleum contamination in the vicinity of the oil/water separator is likely attributable to the oil/water separator and the tank used to hold recovered oil. Contamination in this area is located in the immediate vicinity of the oil water separator and hydraulically

downgradient of the oil/water separator. The site is currently a Tier II site.

Surrounding human receptors at the site include trespassers, facility workers, and construction workers. Potential exposure by trespassers is considered low under current and future foreseeable uses. Potential exposure by on/off-site workers is considered moderate under current and future foreseeable uses. Currently workers are present on a part time basis in the area of the oil/water separator. Worker activities include monitoring of the oil/water separator system and additional railway workers in yard. Facility workers may be present in the future on a regular basis since B&M plans on developing the property for commercial or industrial use. Potential exposure, by construction workers involved in invasive excavation activities, is considered a possible exposure pathway.

The primary pathway for site contamination to impact environmental receptors is through off-site migration and discharge of groundwater to surface water. The Charles River is located approximately 600 feet to the south and downgradient of the site. The Charles River would be the primary environmental receptor of concern. The potential for dilution, retardation and dispersion of groundwater during off-site migration and the distance to the Charles River relative to the site, suggests that this environmental receptor possesses a low likelihood of potential exposure. Therefore, environmental receptors maintain a low likelihood of potential exposure to site contamination under current and future foreseeable uses.

c) *Objectives, specific plans, and proposed implementation schedule for the RAM*

The objective of the RAM is to remove the 15,000-gallon tank.

Proposed work will be conducted in accordance with 310 CMR 40.0000 and includes:

- removal of the tank and tank contents

- backfilling the excavation with clean gravel up to the original grade
- installing a perforated pipe to facilitate future remedial response actions, if necessary

The tank removal contractor should notify the Cambridge Fire Department and DIGSAFE prior to tank removal. Removal work is anticipated to require one day. Coordination with subcontractors, transportation, and disposal of the tank is anticipated to require an additional one to two weeks. Therefore, ERM anticipates that this RAM will be completed within two weeks of initiation.

d) *Management of remediation waste*

Tank contents will be the only remediation waste generated as part of the tank removal. All soil will be left in place pending future site-wide remedial response actions. Tank contents will be transported to a state-approved facility for disposal.

e) *Proposed monitoring during and after the RAM*

Monitoring during RAM implementation will be conducted using a PID for worker health and safety (VOCs are coincident with TPH). No monitoring is currently planned following completion of the RAM.

f) *Listing of all federal, state and local permits likely to be needed for the RAM*

- The tank removal contractor should obtain Form 3FP-292, the permit for UST removal, from the Cambridge Fire Department prior to tank removal.
- Public involvement will be performed in accordance with 310 CMR 40.1400.

g) *Seal and signature of the LSP who prepared the RAM Plan*

- Refer to BWSC Form 106; Section J.

h) *Certification for Remediation Waste in excess of 1,500 cubic yards*

- ERM does not anticipate generating remediation waste in excess of 1,500 cubic yards during the RAM.

i) *Department required information*

- ERM will submit any additional information at the Department's request.

(2) *RAM Fees*

- No fee is required for this RAM pursuant to 310 CMR 40.0444(2), since the site has been Tier Classified.

(3) *RAM Transmittal Form BWSC-106*

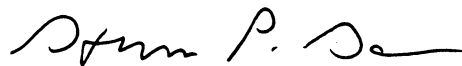
- Original RAM Transmittal Form BWSC-106 is included in Attachment A.

If the Department requires additional information or clarification, please contact either of the undersigned at (617) 267-8377.

Sincerely,



John C. Drobinski, P.G., LSP
Principal-in-Charge



Steven P. Sacco
Project Manager

SPS:sps

enclosures: Attachment A: RAM Transmittal Form BWSC-106
cc: Cindy Scarano - B&M Railroad



**RELEASE & UTILITY-RELATED ABATEMENT
MEASURE (RAM & URAM) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number

3 - 11533

A. SITE LOCATION:

Site Name: (optional) B&M Railroad Yard

Street: Industrial Park Drive

Location Aid: _____

City/Town: Cambridge

ZIP Code: 02141-0000

☐ Check here if a Tier Classification Submittal has been provided to DEP for this Release Tracking Number.

Related Release Tracking Numbers That This RAM or URAM Addresses: _____

B. THIS FORM IS BEING USED TO:

(check all that apply)

☒ Submit a **RAM Plan** (complete Sections A, B, C, D, E, F, J, K, L and M).

☐ Check here if this RAM Plan is an update or modification of a previously approved written RAM Plan. Date Submitted: _____

☐ Submit a **RAM Status Report** (complete Sections A, B, C, E, J, K, L and M).

☐ Submit a **RAM Completion Statement** (complete Sections A, B, C, D, E, G, J, K, L and M).

☐ Confirm or Provide **URAM Notification** (complete Sections A, B, H, K, L and M).

☐ Submit a **URAM Status Report** (complete Sections A, B, C, E, J, K, L and M).

☐ Submit a **URAM Completion Statement** (complete Sections A, B, C, D, E, I, J, K, L and M).

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. SITE CONDITIONS:

☐ Check here if the source of the Release or Threat of Release is known.

If yes, check all sources that apply: ☒ UST ☐ Pipe/Hose/Line ☐ AST ☐ Drums ☐ Transformer ☐ Boat

☐ Tanker Truck ☐ Vehicle ☐ Other Specify: _____

Identify Media and Receptors Affected: (check all that apply) ☐ Air ☒ Groundwater ☐ Surface Water ☐ Sediments ☒ Soil

☐ Wetlands ☐ Storm Drain ☐ Paved Surface ☐ Private Well ☐ Public Water Supply ☐ Zone 2 ☐ Residence

☐ School ☐ Unknown ☐ Other Specify: _____

Identify Release and/or Threat of Release Conditions at Site: (check all that apply)

☐ 2 and 72 Hour Reporting Condition(s) ☐ 120 Day Reporting Condition(s) ☒ Other Condition(s)

Describe: Tier II site undergoing Comprehensive Response Actions

**RAMs may be conducted concurrently with an IRA only with written DEP approval
URAMs may not be conducted if any 2 or 72 Hour conditions exist at the site.**

Identify Oils and Hazardous Materials Released: (check all that apply) ☒ Oils ☐ Chlorinated Solvents ☐ Heavy Metals

☐ Others Specify: _____

D. DESCRIPTION OF RESPONSE ACTIONS:

(check all that apply)

☐ Assessment and/or Monitoring Only

☐ Deployment of Absorbant or Containment Materials

☐ Excavation of Contaminated Soils

☐ Temporary Covers or Caps

☐ Re-use, Recycling or Treatment

☐ Bioremediation

☐ On Site ☐ Off Site Est. Vol.: _____ cubic yards

☐ Soil Vapor Extraction

Describe: _____

☐ Structure Venting System

☐ Store ☐ On Site ☐ Off Site Est. Vol.: _____ cubic yards

☐ Product or NAPL Recovery

SECTION D IS CONTINUED ON THE NEXT PAGE.



**RELEASE & UTILITY-RELATED ABATEMENT
MEASURE (RAM & URAM) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number

3

11533

D. DESCRIPTION OF RESPONSE ACTIONS (continued):

- ☐ Landfill ☐ Cover ☐ Disposal Est. Vol.: _____ cubic yards ☐ Groundwater Treatment Systems
- ☒ Removal of Drums, Tanks or Containers ☐ Air Sparging
- Describe: Removal of 15,000-gallon tank ☐ Temporary Water Supplies
- ☐ Removal of Other Contaminated Media ☐ Temporary Evacuation or Relocation of Residents
- Specify Type and Volume: _____ ☐ Fencing and Sign Posting
- ☐ Other Response Actions Describe: _____
- See 310 CMR 40.0442 for limitations on the scope and type of RAMs.
See 310 CMR 40.0464 for performance standards for URAMs.**
- ☐ Check here if this RAM or URAM 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: _____

Town and State: _____

Quantity of Remediation Waste Transported to Date: _____

F. RAM PLAN:

- ☐ Check here if this RAM Plan received previous oral approval from DEP as a continuation of a Limited Removal Action (LRA).
- Date of Oral Approval: _____
- ☐ If a RAM Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment. See 310 CMR 40.0444(2) to learn when a fee is not required.
- ☐ Check here if the RAM Plan is proposed for a Transition Site. If this is the case, you may need to attach an LSP Evaluation Opinion prior to undertaking the RAM, if not previously provided. See 310 CMR 40.0600 for further information about Transition Sites.

G. RAM COMPLETION STATEMENT:

- ☐ If a RAM Compliance Fee is required in connection with submission of the RAM Completion Statement, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment. You owe this fee when submitting a RAM Completion Statement if you received oral approval of a RAM that continued an LRA, and have NOT previously submitted a RAM Plan and accompanying fee.
- If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the RAM Completion Statement, you must submit a Phase IV Remedy Implementation Plan, along with the appropriate transmittal form, as an attachment to the RAM Completion Statement.**

H. URAM NOTIFICATION:

- Identify Location Type: (check all that apply) ☐ Public Right of Way ☐ Utility Easement ☐ Private Property
- Identify Utility Type: (check all that apply) ☐ Sanitary/Combined Sewerage ☐ Water ☐ Drainage ☐ Natural Gas
- ☐ Telephone ☐ Steam Lines ☐ Telecommunications ☐ Electric ☐ Other Specify: _____
- ☐ Check here if you provided DEP with previous oral notification of this URAM. Date of Oral Notice: _____
- ☐ Check here if the property owner was NOT contacted prior to initiation of the URAM. If this is the case, you must attach an explanation of why the owner was not contacted, including the date and time when contact ultimately occurred.
- ☐ Check here if this URAM will occur in connection with the construction of new public utilities. If this is the case, document the nature and extent of encountered contamination, the scope and expense of necessary mitigation and the benefits and limitations of project alternatives.
- With the exception stated below, the person undertaking the URAM must provide the name and license number of an LSP engaged or employed in connection with the URAM:
- LSP Name: _____ LSP License Number: _____
- LSP information is not required if the URAM is limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil.



**RELEASE & UTILITY-RELATED ABATEMENT
MEASURE (RAM & URAM) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number

3 - 11533

I. URAM COMPLETION STATEMENT:

☐ Check here if this URAM was limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated by either a Hazardous Material or a mixture of a Hazardous Material and Oil.

If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the URAM 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 URAM Completion Statement.

J. 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 a **Release Abatement Measure 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 a **Release Abatement Measure Status Report** or a **Utility-Related Abatement Measure 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 a **Release Abatement Measure Completion Statement** or a **Utility-Related Abatement Measure Completion Statement** 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.

☐ 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.

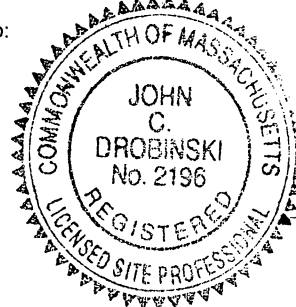
LSP Name: John C. Drobinski LSP #: 2196 Stamp:

Telephone: 617-267-8377 Ext.: 150

FAX: (optional) 172-676-6447

Signature: _____

Date: 11/17/98



An LSP Opinion is not required for a Utility-Related Abatement Measure Notification.

An LSP Opinion is not required for a URAM Completion Statement if the URAM is limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by Hazardous Material or a mixture of Hazardous Material and Oil.

K. PERSON UNDERTAKING RAM OR URAM:

Name of Organization: Boston & Maine Railroad Corporation

Name of Contact: Cynthia Scarano Title: Project Manager

Street: Iron Horse Park

City/Town: North Billerica State: MA ZIP Code: 01862-0000

Telephone: 978-663-6957 Ext.: _____ FAX: (optional) 978-663-1143

☐ Check here if there has been a change in person undertaking the RAM or URAM.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

011
BWSC-106

RELEASE & UTILITY-RELATED ABATEMENT
MEASURE (RAM & URAM) TRANSMITTAL FORM

Release Tracking Number

3 - 11533

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

L. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RAM OR URAM: (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. 6(j))

☐ Any Other Person Undertaking RAM or URAM Specify Relationship: _____

M. CERTIFICATION OF PERSON UNDERTAKING RAM OR URAM:

I, Cynthia Scarpino, swear 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. Who person or entity on whose behalf this submittal is made and 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:

(signature)

Title: Project ManagerFor: Boston & Maine Railroad Corporation

(print name of person or entity recorded in Section K)

Date:

11/17/96

Enter address of person providing certification, if different from address recorded in Section K:

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.

**Environmental
Resources
Management**

399 Boylston Street, 6th Floor
Boston, Massachusetts 02116
(617) 267-8377
(617) 267-6447 (fax)

<http://www.erm.com>

17 November 1998

Reference: 484-03

The Honorable Mayor Duehay
Mayors Department
795 Massachusetts Avenue
Cambridge, MA 02139

RE: Release Abatement Measure Plan
B&M Railyard
Cambridge, Massachusetts
RTN 3-17107



Dear Mayor Duehay:

This notification is to inform you that an Release Abatement Measure Plan has been submitted to the Department of Environmental Protection (DEP) for the above referenced site. A copy of the plan is attached.

On behalf of B&M Railroad Corporation and in accordance with the M.G.L c.21E and the revised Massachusetts Contingency Plan (310 CMR 40.0000, the "MCP"), we are providing you with this information.

If you have any questions regarding this information, please contact me at (617) 267-8377.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steven P. Sacco', followed by a long horizontal flourish line.

Steven P. Sacco, P.G.
Project Manager

cc: Cynthia Scarano, B&M Railroad Corporation

Consent Communication #5

7845

A communication was received from Steven P. Sacco, P.G., Project Manager, Environmental Resources Managment, transmitting notification that the Relwase Abatement Measure Plan for the B&M Railyard has been submitted to the Department of Environmental Protection (DEP)

In City Council December 7, 1998

PLACED ON FILE