

**Environmental
Resources
Management**

399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>



17 December 2003
Reference: 0001922.03

DEP Permit Administrator
Bureau of Waste Site Cleanup
Massachusetts Department of Environmental Protection
1 Winter Street
Boston, Massachusetts 02118

RE: Tier Classification Submittal, Numerical Ranking Scoresheet, and
Application for Tier IB Permit - Transmittal No. W045278
Former Raytheon Facility
Wayland, Massachusetts
DEP RTN 3-22408

Dear Sir or Madam:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting this Tier Classification Submittal, Numerical Ranking Scoresheet, and application for Tier IB Permit for Release Tracking Number (RTN) 3-22408 for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts. Please find enclosed the following documents:

- A copy of the Department of Environmental Protection (DEP) Permit Transmittal Form for Permit Application and Payment (Transmittal Ref. No. W045278)
- BWSC-02 Tier I Initial Permit Application- original and one copy
- Numerical Ranking Scoresheet
- A copy of the Permit Application Fee submittal sent to MA DEP, P.O. Box 4062, Boston, MA 02211-4062
- Public Notification documentation (copies of public notice letters to Board of Health and Chief Municipal Manager, affidavit of legal notice, and copy of notice)
- Figure showing the disposal site boundaries

Supplemental information required by BWSC 02 - Tier IB Initial Permit Application and pursuant to 310 CMR 40.0704, is included to support this application:

Compliance History

Raytheon is no longer the operator at the Site. A Tier IB Permit (No. 133939) exists for RTN 3-13302, which is also located within the property boundaries of the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts. The two RTNs are being treated separately under the MCP to minimize delays in response actions. This enables completion of assessment activities under RTN 3-22408 without delaying ongoing remedial activities under RTN 3-13302 (Tier IB Permit No. 133939).

A copy of the Tier Classification Submittal and Numerical Ranking Scoresheet

A Tier Classification for the Site was determined using the Numerical Ranking System (NRS) described in 310 CMR 40.1500. The NRS Scoresheet and Tier Classification submittal were presented in the Phase I - Initial Site Investigation Report (Phase I) and are attached.

Pursuant to 310 CMR 40.0520(2)(a)(1), the Site is categorically classified as Tier I since "there is evidence of groundwater contamination with OHM at concentrations equal to or exceeding the applicable RCGW-1 Reportable Concentration set forth in 310 CMR 40.0360 at the time of Tier Classification, and such groundwater is located within an Interim Wellhead Protection Area or Zone II."

Completion of the NRS resulted in a Site score of 511, which scores the Site as Tier IB.

Phase II Scope of Work or conceptual scope of work required by 310 CMR 40.0500.

ERM previously submitted a Final Scope of Work (ERM, 2003a) to the Department in an effort to keep the public and the Department informed of ongoing assessment activities at the Site prior to submittal of the Phase I. This document was not required under the MCP, but was developed as a means to document previously completed Site investigation activities and to present a scope of work for additional assessment activities proposed to further characterize chlorinated volatile organic compounds (CVOCs) impacts to groundwater in the Northern Area, including:

- the potential for CVOCs from the Northern Area to impact the Baldwin Pond Wellfield; and
- the downgradient extent of Northern Area CVOC plume.

ERM has submitted a Notice of Intent (NOI) with the Wayland Conservation Commission and the Department for activities to be conducted within wetland areas or wetland buffer zones. Field work will commence following receipt of an Order of Conditions from the Conservation Commission. The exact timing of the field activities is dependent upon weather and ground conditions.

A Conceptual Phase II Scope of Work was included in the Phase I report. Pursuant to 310 CMR 40.0830, a Phase II Scope of Work will be completed subsequent to the submission of the Phase I report. The Phase II Scope of Work will include:

- the scope and nature of investigation and sampling events that will be undertaken to characterize the source, extent, and migration pathways of OHM, and the risk of harm posed to health, safety, public welfare or the environment;
- the name and license number of the LSP representing the person conducting the Comprehensive Response Action; and
- a schedule for implementation of the Phase II - Comprehensive Site Assessment.

The Phase II Scope of Work will likely include the following activities:

- advance soil borings and install monitoring wells;
- conduct hydraulic conductivity testing; and
- survey, gauge and sample monitoring wells.

The Phase II Scope of Work will be submitted for public review and comment following completion of the field activities proposed in the Final Scope of Work (ERM, 2003a).

A statement affirming that public notice was submitted for publication in the local newspapers of the communities in which the disposal site is located as required by 310 CMR 40.0703(8)(a).

Notification was submitted for publication on 18 December 2003 in the Wayland Town Crier as required by 310 CMR 40.0703(8)(a). A photocopy of the notice and an affidavit is attached and is presented in the Phase I Report submitted to the MA DEP.

A statement affirming that notice was submitted for publication in the Environmental Monitor as required by 310 CMR 40.0704(1)(c).

Notification was submitted for publication in the Environmental Monitor 23 December 2003 as required by 310 CMR 40.0704(1)(c). A photocopy of the notice is attached and an affidavit is presented in the Phase I Report submitted to the MA DEP.

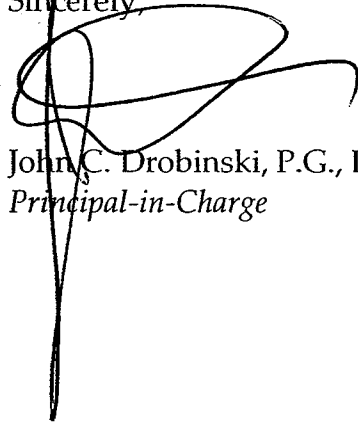
LSP Opinion Regarding Proposed or Continuing Response Actions

The Tier I Permit application materials were prepared pursuant to 310 CMR 40.0700. A Phase I Initial Site Investigation, which includes a Numerical Ranking Scoresheet (NRS) completed in accordance with 310 CMR 40.1500, has been completed at the Site in accordance with 310 CMR 40.0480. A Phase I report was submitted to the DEP on 17 December 2003.

Based on the historic nature of this release and the need to complete activities proposed in the Final Scope of Work (ERM, 2003), ERM requests that MA DEP authorize, in writing, approval of the Tier IB Permit as soon as possible.

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

Sincerely,



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



R. Joseph Fiacco, Jr., P.G.
Senior Project Manager

cc: Edwin P. Madera, Raytheon
Benson Gould, CMG Environmental
Public Repositories
File

*DEP Permit Transmittal Form
(original)*



Enter your transmittal number

W045278

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://www.state.ma.us/scripts/dep/trasmfrm.stm> or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. Copy 2 must accompany your fee payment. Copy 3 should be retained for your records.

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

DEP
P.O. Box 4062
Boston, MA
02211

* Note:
For BWSC Permits,
enter the LSP.

A. Permit Information

BWSC 02

Tier 1B

1. Permit Code: 7 or 8 character code from permit instructions

2. Name of Permit Category

BWSC Disposal Site

3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Raytheon Company

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

3. First Name of Individual

4. MI

528 Boston Post Road

5. Street Address

Sudbury

MA

01776

(978) 440-1318

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Mr. Edwin Madera

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Former Raytheon Facility

1. Name of Facility, Site Or Individual

430 Boston Post Road

2. Street Address

Wayland

MA

01778

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

RTN #3-22408

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

Environmental Resources Management (ERM)

1. Name of Firm Or Individual

399 Boylston Street, 6th Floor

2. Address

Boston

MA

02116

(617) 646-7800

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

John C. Drobinski

2196

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? yes no

If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

Special Provisions:

- 1. Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
- 2. Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
- 3. Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
- 4. Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

020376

3,550

12/12/03

Check Number

Dollar Amount

Date

*Tier I Initial Permit Application
(original)*



Massachusetts Department of Environmental Protection
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BWSC 03 – Tier IC
Initial Application for Tier I Permit

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A. Disposal Site Information

Important:
 When filling out forms on the computer, use only the tab key to move your cursor – do not use the return key.



1. Check here if there is more than one applicant. (A Primary Representative must be listed in Section B and each applicant must fill out Sections C, D and E.)
2. Which permit category are you applying for?
- a. Tier IA (Permit Category: BWSC 01) d. Check here if applicant is a Homeowner pursuant to 310 CMR 4.02. A Homeowner Certification (BWSC120) must be submitted in order to qualify for the homeowner application fee.
- b. Tier IB (Permit Category: BWSC 02)
- c. Tier IC (Permit Category: BWSC 03)

3. a. Former Raytheon Facility
 Disposal Site Name
- b. 430 Boston Post Road
 Street
- c. Wayland d. MA e. 01778
 City/Town State Zip Code

Note:

Tier IA =
 NRS ≥ 550;

Tier IB =
 350 ≤ NRS < 550;

Tier IC =
 350 ≤ NRS < 450

4. List other release tracking number(s) that is(are) the subject of this permit application.
- Release Tracking Number (RTN)**
- a. _____ b. _____
- c. _____ d. _____
- e. _____ f. _____

5. Basis for Tier Classification:
- a. Numerical Ranking System (NRS) Score: 511
- b. Check here if basis includes Tier I inclusionary criteria. (Check all that apply.)
- i. Evidence of groundwater contamination with oil and/or hazardous material at concentrations equal to or exceeding applicable RCGW-1 reportable concentrations and such groundwater is located within an Interim Wellhead Protection Area or Zone II.
- ii. Disposal site at which an Imminent Hazard is present at the time of Tier Classification.



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B. Primary Representative Information

Note:

1. If there is **only one** applicant, you do not need to complete this section.

2. If there is **more than one** applicant, then the Primary Representative should complete this page.

3. The **Primary Representative** for multiple applicants will receive the annual compliance assurance fee statement for the disposal site.

1. Primary Representative:

a. Is the Primary Representative also an applicant? i. Yes ii. No

b. _____
 Name of Organization

c. _____ d. _____
 Name Title

e. _____
 Street

f. _____ g. _____ h. _____
 City/Town State Zip Code

i. _____ j. _____
 Telephone E-mail (optional)

k. _____ l. _____
 Contact Name (if different) Contact Telephone

2. Primary Representative Certification:

I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons submitting this permit application for the following purposes: (i) to receive oral and written correspondence from DEP with respect to this application; (ii) to receive oral and written correspondence from DEP with respect to the performance of response actions conducted pursuant to the Tier I permit; and (iii) to receive any statement of fee required by 310 CMR 4.03(3) associated with the Tier I permit. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

a. _____
 Name (Print)

b. _____
 Position or Title

c. _____
 Signature

d. _____
 Date



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C. Applicant Information

Note:

1. All applicants must complete this section. Where there is more than one **Applicant**, make copies of this page, have each applicant provide this information, and then attach all copies to this Permit Application.

2. The applicant, or the Primary Representative for more than one applicant, will receive the annual compliance assurance fee statement for the disposal site.

1. Applicant:

a. Raytheon Company
 Name of Organization

b. _____ c. _____
 Applicant Name Title

d. 528 Boston Post Road
 Street

e. Sudbury f. MA g. 01776
 City/Town State Zip Code

h. (978) 440-1000 i. _____
 Telephone E-mail (optional)

j. Mr. Edwin Madera k. (978) 440-1318
 Contact Name (if different) Contact Telephone

2. Type of Applicant (check **one**):

a. Individual

b. Sole proprietorship

c. Partnership

d. Corporation

e. Realty trust

f. State authority

g. Municipality

h. State agency

i. Federal agency

j. Other, please specify: _____

3. Relationship of applicant to disposal site (check all that apply):

a. Current owner (as defined in Section 5(a)(1) of M.G.L. c 21E)

b. Current operator (as defined in Section 5(a)(1) of M.G.L. c 21E)

c. Past owner (as defined in Section 5(a)(2) of M.G.L. c 21E)

d. Past operator (as defined in Section 5(a)(2) of M.G.L. c 21E)

e. Generator (as defined in Section 5(a)(3) of M.G.L. c 21E)

f. Transporter (as defined in Section 5(a)(4) of M.G.L. c 21E)

g. Other legally responsible party (as defined in Section 5(a)(5) of M.G.L. c 21E)

h. Other person (as defined in 310 CMR 40.0006(10))

4. Check here to certify that additional copies of Sections C, D and E are attached to this application.



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D. Applicant's Compliance History

Note:
 Each applicant must complete this section. For disposal sites with more than one Applicant, make copies of this section, have each applicant complete this information, and then attach all copies to this Permit Application.

1. Check here to certify that a statement further describing the applicant's compliance history is attached.

This statement must describe the applicant's history of compliance with DEP's requirements, including, but not limited to, M.G.L. c. 21E, 310 CMR 40.0000, and other laws for the protection of health, safety, public welfare and the environment administered or enforced by federal, state and local government agencies, that are material to the disposal site. Such a statement should identify information such as: action(s) material to the disposal site taken by DEP to enforce its requirements including, but not limited to Notice of Noncompliance (NON), Notice of Intent to Assess Civil Administrative Penalty (PAN), administrative enforcement order, Notice of Responsibility (NOR), Notice of Intent to Take Response Action (NORA); Administrative Consent Order; Judicial Consent Judgment; similar administrative actions taken by other states, federal, or local agencies; and/or civil or criminal actions material to the disposal site brought on behalf of DEP or other federal, state, or local agencies and any additional information relevant to the applicant's history of compliance. For each action identified, give the name of the issuing authority and identification number, if available, and a description of the noncompliance cited, the current status of the matter, and final disposition, if any.

2. List all other DEP permits or licenses held by the applicant that are material to this disposal site:

Program	Permit Code	Permit Category	Facility ID
a. Air Quality	_____	_____	_____
b. Hazardous Waste (M.G.L. c. 21C)	_____	_____	_____
c. Solid Waste	_____	_____	_____
d. Industrial Wastewater Management	_____	_____	_____
e. Water Supply	_____	_____	_____
f. Water Pollution Control: Surface Water	_____	_____	_____
g. Water Pollution Control: Groundwater	_____	_____	_____
h. Water Pollution Control: Sewer Connection	_____	_____	_____
i. Wetlands & Waterways	_____	_____	_____

3. List all other permits, licenses, certifications, registrations, variances, or other approvals issued by other federal, state, or local authorities and held by applicant that are material to this disposal site:

Issuing Authority	Identification Number	Date Issued
a. _____	_____	_____
b. _____	_____	_____
c. _____	_____	_____



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E. Applicant Certifications

Note:

Each applicant must complete this section. For disposal sites with more than one **Applicant**, make copies of this page, have each applicant complete this information, and then attach all copies to this Permit Application.

1. Certification of 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 submittal, (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 person or 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. Statement of Ability and Willingness

I attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the/those Licensed Site Professional(s) employed or engaged to render Professional Services for the disposal site which is the subject of this permit application and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s') or entity's(ies') understanding as to the estimated costs of necessary response actions, that/those person(s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) 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 aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made and/is(are) unable to proceed with the necessary response actions.

3. Certification of Remittance of Permit Application Fee

I attest under the pains and penalties of perjury that, on or before the date of submittal of this permit application to the Department, I remitted, or caused to be remitted, the applicable permit fee payable in accordance with 310 CMR 4.00.

4. Applicant Acceptance

- a. Mr. Edwin Madera
Name (Print)
- b. Senior Env. Engineer; Raytheon Company
Position or Title
- c. Edwin P. Madera
Signature
- d. 12/4/03
Date



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F. Required Technical Submittals with Permit Application

1. Check here to certify that a Tier I Classification Submittal is attached to this application.
2. Please indicate which of the following response actions are in progress or have been completed at this disposal site at the time of this permit application:

Response Actions	Completed	In Progress
Preliminary Response Actions:		
a. Limited Removal Action (LRA)	<input type="checkbox"/>	
b. Immediate Response Action (IRA)	<input type="checkbox"/>	<input type="checkbox"/>
c. Release Abatement Measure (RAM)	<input type="checkbox"/>	<input type="checkbox"/>
d. Utility Related Abatement Measure (URAM)	<input type="checkbox"/>	<input type="checkbox"/>
e. Phase I Initial Site Investigation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. _____ Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>
Comprehensive Response Actions:		
g. Phase II Comprehensive Site Assessment	<input type="checkbox"/>	<input type="checkbox"/>
h. Phase III Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives	<input type="checkbox"/>	<input type="checkbox"/>
i. Phase IV Implementation of the Selected Remedial Action Alternative (Remedy Implementation Plan only)	<input type="checkbox"/>	<input type="checkbox"/>

3. Please indicate which of the following Status Reports, Phase Reports, or Completion Statements have been prepared for response actions that are in progress or have been completed at the disposal site at the time of this permit application.

Document	Previously Submitted	Submitted with this Application	Projected Date for Completion
a. Bill(s) of Lading	<input type="checkbox"/>	<input type="checkbox"/>	_____
b. Immediate Response Action (IRA) Plan(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
c. IRA Status Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
d. IRA Completion Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
e. Release Abatement Measure (RAM) Plan(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____

Note:
 For response actions in progress, attach a statement of description of the current status and projected schedule for completion of such response actions.



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F. Required Technical Submittals with Permit Application (cont.)

Document	Previously Submitted	Submitted with this Application	Projected Date for Completion
f. RAM Status Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
g. RAM Completion Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
h. Utility-Related Abatement Measures (URAM)	<input type="checkbox"/>	<input type="checkbox"/>	_____
i. URAM Status Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
j. URAM Completion Report(s)	<input type="checkbox"/>	<input type="checkbox"/>	_____
k. Phase I Report and Completion Statement	<input type="checkbox"/>	<input type="checkbox"/>	_____
l. Phase II Scope of Work	<input type="checkbox"/>	<input type="checkbox"/>	<u>Spring 2004</u>
m. Phase II Report and Completion Statement	<input type="checkbox"/>	<input type="checkbox"/>	_____
n. Phase III Remedial Action Plan and Completion Statement	<input type="checkbox"/>	<input type="checkbox"/>	_____
o. Phase IV Remedy Implementation Plan (RIP)	<input type="checkbox"/>	<input type="checkbox"/>	_____
p. _____ Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	_____

4. Specify the pages of either the Phase I Report or Phase II Report (if completed) for purposes of supporting the following information:

	Phase I Report	Phase II Report	Page(s)
a. Disposal site location information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5-6</u>
i. Institutions within 500 feet of the disposal site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>7</u>
ii. Listing of natural resource areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>7-8</u>
b. Disposal Site Locus Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Figure 1</u>
c. Disposal site history	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11-19</u>
i. Release history and abatement measures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>12-13</u>
ii. OHM use and storage history	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>13-14</u>
iii. Environmental permits and compliance history	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11-19</u>



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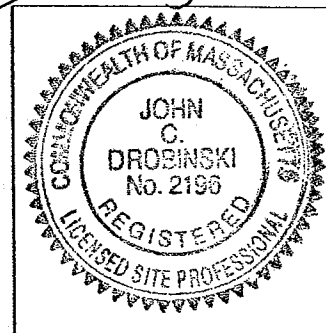
F. Required Technical Submittals with Permit Application (cont.)

	Phase I Report	Phase II Report	Page(s)
d. Disposal site hydrogeological characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25-27
i. Groundwater depth and flow direction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25-27
ii. Soil and bedrock description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24-25
iii. Disposal site topography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5-6
e. Nature and extent of contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27-39
i. Thickness of non-aqueous phase liquid, if encountered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27-39
ii. Approximate horizontal and vertical extent of contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27-39
f. Migration pathways and exposure potential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39-41
i. Contaminant migration potential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39-40
ii. Potential human exposure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	40-41
iii. Potential environmental receptors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41
g. Evaluation for Immediate Response Action(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41
h. Phase II Scope of Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	42-43
Other (specify)			
i. Conclusions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	45-46

G. Licensed Site Professional Opinion

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal, 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, this application was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000. 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.

- 2196
License Number
- John C. Drobinski
LSP Name (Print)
- 12/09/03
Date
- (617) 646-7850
Telephone
- LSP Signature
- LSP Seal:



Numerical Ranking Scoresheet

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Waste Site Cleanup

NUMERICAL RANKING SYSTEM SCORESHEET
(310 CMR 40.1511)

CLASSIFICATION SUBMITTAL	
Initial Submittal	Re-Classification
<input checked="" type="checkbox"/>	<input type="checkbox"/>

DISPOSAL SITE SCORE					
II	III	IV	V	VI	TOTAL
150	131	95	135	0	511

Disposal Site Tier Classification	I	II
Permit Category (Tier I Only)	A	B C

I. DISPOSAL SITE INFORMATION

DEP Release Tracking Number(s)	3-22408
DEP Disposal Site Number(s)	

UTM Coordinates	N: 4,692,780
	E: 304,820

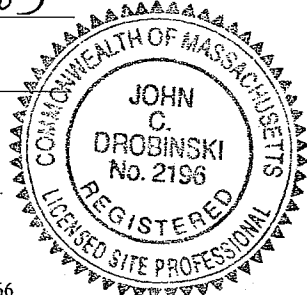
Disposal Site Name	Former Raytheon Facility		
Disposal Site Address	430 Boston Post Road		
	City: Wayland, MA	Zip: 01778	

Is the Disposal Site classified Tier I because it is located within the boundaries of a Zone II or Interim Wellhead Protection Area and groundwater concentrations equal or exceed RCGW-1 at the time of Tier Classification pursuant to 310 CMR 40.0520(2)(a)1.?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the Disposal Site classified Tier I because an Imminent Hazard is present at the time of Tier Classification pursuant to 310 CMR 40.0520(2)(a)2.?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

I attest under the pains and penalties of perjury that I have personally completed this Numerical Ranking System Scoresheet, and have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, and in my professional opinion and judgment based upon: (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, this Scoresheet was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000. 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.

Licensed Site Professional Signature LSP Registration Number 2196
John Drobinski **ERM**
LSP Name (Printed) Company Name

12/09/03
Date
617.646.7850
Telephone Number



Responsible Party, Potentially Responsible Party, or Other Person who will provide certification in accordance with 310 CMR 40.0009.

40.1511 (Continued)

II. EXPOSURE PATHWAYS

II. EXPOSURE PATHWAYS				
<i>Score according to 40.1512 - Exposure Pathway Designation Criteria</i>				
<i>MEDIA</i>	<i>DESIGNATION</i>			
	<i>NONE or NOT APPLICABLE</i>	<i>EVIDENCE OF CONTAMINATION</i>	<i>POTENTIAL EXPOSURE PATHWAY</i>	<i>LIKELY OR CONFIRMED EXPOSURE PATHWAY</i>
A. SOIL (Includes Sediment)	0	15	100	150
B. GROUNDWATER	0	20	100	150
C. SURFACE WATER (Includes Wetlands)	0	20	100	150
D. AIR	0	15	100	200

Note: Score only the highest value for each media, i.e., score None or Not Applicable *or* Evidence of Contamination *or* Potential Exposure Pathway *or* Likely or Confirmed Exposure Pathway.

<i>II. (A - D) Summary Rationale for Section II A - D Values and Phase I Report References</i>	
II.A – No site contaminants anticipated or analyzed.	
II.B – CVOCs detected in groundwater > RC’s within Zone II; Table 4 of Phase I Report	
II.C – No site contaminants anticipated or analyzed.	
II.D – No site contaminants anticipated or analyzed.	

II.E. OHM SOURCES			
Number of OHM Sources	1	2	≥ 3
	0	25	50

SECTION II SCORE (A. + B. + C. + D. + E.)					
A. 0	B. 100	C. 0	D. 0	E. 50	TOTAL: (15 - 700) 150

Check here if Section VI has been used to amend the score for this Section of the NRS.	<input type="checkbox"/>
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40.1511 (Continued)

III. DISPOSAL SITE CHARACTERISTICS

III.A. OHM TOXICITY SCORE <i>Highest OHM Toxicity Score</i> <i>From Table III.A. or Worksheet III.A.1. on Following Pages.</i>	
OHM Scored: _____ Trichloroethylene, Dichloroethylene-cis1,2- Trichloroethylene, water - 4,400 ug/L Dichloroethylene-cis1,2, water - 10,000ug/L Concentration and Media: _____	Toxicity Score (1 - 80) 35 _____

III.B. MULTIPLE OHMs		
More Than One OHM With an OHM Toxicity Score of ≥ 30	No 0	Yes 30

III.C. OHM MOBILITY and PERSISTENCE <i>Score according to 40.1514 - OHM Mobility and Persistence</i>	
OHM Scored: _____ Dichloroethylene-cis1,2- _____	Score (0 - 50) 50 _____

III.D. DISPOSAL SITE HYDROGEOLOGY <i>Score according to 40.1515 - Soil Permeability</i>			
DEPTH TO GROUNDWATER (in feet)	SOIL PERMEABILITY		
	Low	Medium	High
> 25	2	4	8
10.1 - 25	4	8	12
5.1 - 10	8	12	16
0 - 5	12	16	20

SECTION III SCORE (A + B + C + D)				
A. 35 _____	B. 30 _____	C. 50 _____	D. 16 _____	TOTAL: (3 - 180) 131 _____

Check here if Section VI has been used to amend the score for this Section of the NRS.	<input type="checkbox"/>
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40.1511: continued

Table IIIA.OHM TOXICITY SCORE							
OHM	CONCENTRATION (soil/sediment: µg/g; surface/groundwater µg/l)						
	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
Aliphatics C5-C8	5	15	25	35	45	55	65
C9-C12	1	10	20	30	40	50	60
C9-C18	1	10	20	30	40	50	60
C19-C36	1	10	20	30	40	50	60
Arsenic	20	30	40	50	60		
Aromatics C9-C10	5	15	25	35	45	55	65
C11-C22	5	15	25	35	45	55	65
Benzene	15	25	35	45	55	65	75
Bis(2-ethylhexyl)phthalate	10	20	30	40	50	60	70
Cadmium	20	30	40	50	60		
Carbon Tetrachloride	20	30	40	50	60	70	80
Chlorobenzene	5	15	25	35	45	55	65
Chromium III	1	10	20	30	40		
Chromium VI	10	20	30	40	50		
Coal Tar	10	20	30	40	50	60	70
Cyanide	5	15	25	35	45		
1,1 Dichloroethane	10	20	30	40	50	60	70
1,2 Dichloroethane	10	20	30	40	50	60	70
Ethylbenzene	5	15	25	35	45	55	65
Ethylene Dibromide	20	30	40	50	60	70	80
#2 Fuel Oil (virgin product)	5	15	25	35	45	55	65
Gasoline (virgin product)	10	20	30	40	50	60	70
Lead	20	30	40	50	60		
Mercury	20	30	40	50	60	70	80
Methylene Chloride	10	20	30	40	50	60	70
Methyl Ethyl Ketone	1	10	20	30	40	50	60
Methyl Tert Butyl Ether	5	15	25	35	45	55	65
Nickel	5	15	25	35	45		

40.1511: continued

Table III.A. - continued OHM TOXICITY SCORE							
OHM	CONCENTRATION (soil/sediment: µg/g; surface/groundwater µg/l)						
	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
Phenol	1	10	20	30	40	50	60
PAHs	10	20	30	40	50	60	70
PCBs	20	30	40	50	60	70	80
Tetrachloroethylene	10	20	30	40	50	60	70
Toluene	1	10	20	30	40	50	60
1,1,1 Trichloroethane	5	15	25	35	45	55	65
Trichloroethylene	15	25	35	45	55	65	75
Vinyl Chloride	15	25	35	45	55	65	75
Xylenes	1	10	20	30	40	50	60
Zinc	1	10	20	30	40		

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

40.1511 (Continued)

Use Worksheet III.A.1. to determine the OHM Toxicity Score for OHM not listed in Table III.A.
See 40.1513 for Human Health-Based Toxicity Values for each OHM.

Worksheet III.A.1 OHM TOXICITY SCORE							
HUMAN HEALTH-BASED TOXICITY VALUE	CONCENTRATION						
	Use µg/g for Soil and µg/l for Surface Water and Groundwater						
	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
< 5	1	10	20	30	40	50	60
5 - 19	5	15	25	35	45	55	65
20 - 29	10	20	30	40	50	60	70
30 - 39	15	25	35	45	55	65	75
40 - 50	20	30	40	50	60	70	80

III.A.1.OHM and Concentrations Used in Section III.A.1.				
OHM	Human Health-Based Toxicity Value	Concentration (Soil - µg/g)	Concentration (Water - µg/l)	OHM Toxicity Score
Dichloroethylene, cis-1,2-	18		10,000	35

40.1511 (Continued)

IV. HUMAN POPULATION AND LAND USES

IV.A.HUMAN POPULATION				
Residential Population Within ½ Mile	None 0	1 - 99 5	100 - 999 10	≥ 1,000 15
Institutions Within 500 feet	None 0		One or More 10	
On-Site Workers	None 0	1 - 99 5	100 - 999 10	≥ 1,000 15

IV.B. AQUIFERS		
Sole Source Aquifer	No	Yes
Name: _____	0	25
Potentially Productive Aquifer	No	Medium or High
	0	15

IV.C. WATER USE					
Proximity of Disposal Site to Public Drinking Water Supply Source	Not Applicable (NA) 0			Zone A 20	Zone II, IWPA, or SW Intake ≤ 400' 50
Persons Served by Public Drinking Water Supply	NA 0	25 - 999 5	1,000 - 4,999 10	5,000 - 49,999 20	≥ 50,000 25
Private Water Supplies Within 500 Feet	None 0		Commercial Industrial 10	Agriculture Residential (Not Ingested) 15	Drinking Food Processing 25
Alternative Public Water Supply Available (Viable Public Water Supply in Disposal Site Community and Public Water Connection ≤ 500 Feet from Site)	Yes 0			No 25	

SECTION IV SCORE (A + B + C)			
A. 25	B. 0	c. 70	TOTAL: (0 - 205)
_____	_____	_____	_____ 95 _____

Check here if Section VI has been used to amend the score for this Section of the NRS.	<input type="checkbox"/>
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40.1511 (Continued)

V. ECOLOGICAL POPULATION

V.A. ENVIRONMENTAL RESOURCE AREAS			
RESOURCE	LOCATION		
Area of Critical Environmental Concern	> 500' from Site 0	≤ 500' from Site 20	On-Site 30
Species of Special Concern, Threatened or Endangered Species Habitat	> 500' from Site 0	On-Site or ≤ 500' from Habitat 30	
Wetlands, Certified Vernal Pool, or Outstanding Resource Water	> 100' from Site 0	≤ 100' from Site 20	On-Site 30
Fish Habitat	> 500' from Site 0	≤ 500' from Site 20	On-Site 30
Protected Open Space (Local/State/Federal/Trustee)	> 500' from Site 0	≤ 500' from Site 20	On-Site 30

SCORE SECTION V.B. ONLY IF SECTION V.A. SCORE IS ≥ 30.

V.B. ENVIRONMENTAL TOXICITY SCORE	
<i>Highest Environmental Toxicity Score</i> From Table V.B. or Worksheet V.B.1. on Following Pages.	
OHM Scored: _____ Dichloroethene-cis-1,2- _____ Water – 10,000 ug/L Concentration and Media: _____	Toxicity Score (1 - 35) 25

SECTION V. SCORE (A. + B.)		
A. 110	B. 25	TOTAL: (0 - 185) 135

Check here if Section VI has been used to amend the score for this Section of the NRS.	<input type="checkbox"/>
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40.1511 (Continued)

Table V.B.ENVIRONMENTAL TOXICITY SCORE					
OHM	CONCENTRATION (soil/sediment: µg/g; surface/groundwater µg/l)				
	< 1	1 - 99	100 - 999	1,000 - 9,999	≥ 10,000
Arsenic	5	10	15	20	25
Benzene	0	1	5	10	15
Bis(2-ethylhexyl)phthalate *	5	10	15	20	25
Cadmium	10	15	20	25	30
Carbon Tetrachloride	0	1	5	10	15
Chlorobenzene *	5	10	15	20	25
Chromium III	1	5	10	15	20
Chromium VI	5	10	15	20	25
Coal Tar *	5	10	15	20	25
Cyanide	5	10	15	20	25
1,1 Dichloroethane *	5	10	15	20	25
1,2 Dichloroethane	0	1	5	10	15
Ethylbenzene	0	1	5	10	15
Ethylene Dibromide *	5	10	15	20	25
#2 Fuel Oil (virgin product) *	1	5	10	15	20
Gasoline (virgin product) *	5	10	15	20	25
Lead	5	10	15	20	25
Mercury	15	20	25	30	35
Methylene Chloride *	5	10	15	20	25
Methyl Ethyl Ketone *	5	10	15	20	25
Methyl Tert Butyl Ether *	1	5	10	15	20
Nickel	1	5	10	15	20
Phenol	0	1	5	10	15
PAHs *	5	10	15	20	25
PCBs	15	20	25	30	35
Tetrachloroethylene	0	1	5	10	15
Toluene	0	1	5	10	15
1,1,1 Trichloroethane	0	1	5	10	15
Trichloroethylene	0	1	5	10	15
Vinyl Chloride *	5	10	15	20	25
Xylenes *	5	10	15	20	25
Zinc	1	5	10	15	20

* Scores derived by default methods 40.1516(2).

NON-TEXT PAGE

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40.1511 (Continued)

Use Worksheet V.B.1. to determine Environmental Toxicity Scores for OHM not listed in Table V.B.
See 40.1516 for Environmental Toxicity Values for each OHM.

Worksheet V.B.1. ENVIRONMENTAL TOXICITY SCORE					
ENVIRONMENTAL TOXICITY VALUE	CONCENTRATION				
	Use µg/g for Soil and µg/l for Surface Water or Groundwater				
	< 1	1 - 99	100 - 999	1,000 - 9,900	≥ 10,000
10	0	1	5	10	15
20	1	5	10	15	20
30	5	10	15	20	25
40	10	15	20	25	30
50	15	20	25	30	35

V.B.1. OHM and Concentrations Used in Section V.B.1.				
OHM	Environmental Toxicity Value	Concentration (Soil - µg/g)	Concentration (Water - µg/l)	Environmental Toxicity Score
Dichloroethene-cis1,2-	10		10,000	15

Permit Application Fee
(copy)

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Supporting Documentation

Public Notice Letters

Affidavit of Legal Notice

Legal Notice

**Environmental
Resources
Management**

399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>

12 December 2003
Reference: 1922.12

Jeff Ritter
Executive Secretary
Town of Wayland
14 Cochituate Road
Wayland, MA 01778



RE: Notification of Legal Notice Regarding Tier 1 Permit Application
and Phase I Report
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts
Release Tracking Number 3-22408

Dear Mr. Ritter:

On behalf of Raytheon Company, Environmental Resources Management (ERM), will be submitting a Tier 1B Permit Application for the above referenced site to the Massachusetts Department of Environmental Protection (DEP). In accordance with 310 CMR 40.0703(8)(a)(2), the Chief Municipal Officer and the Board of Health must be notified of the application. Copies of these documents may be obtained at the DEP Northeast Regional Office, 1 Winter Street, Boston, Massachusetts 02108.

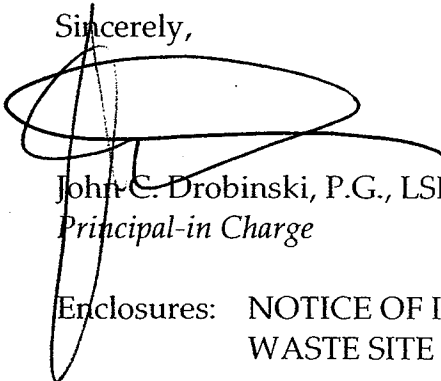
A copy of the NOTICE OF INITIAL SITE INVESTIGATION AND WASTE SITE CLEANUP PERMIT APPLICATION as required by 310 CMR 40.0703(8)(a)(1) is included with this letter. This legal notice will be published in the Wayland Town Crier on 18 December 2003.

Mr. Jeff Ritter
1922.12
12 December 2003
Page 2

Environmental
Resources
Management

Please direct any questions or correspondence to Edwin P. Madera,
Raytheon Company at (978) 440-1813 or the undersigned at (617) 267-
8377.

Sincerely,



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



R. Joseph Fiacco, Jr., P.G.
Senior Project Manager

Enclosures: NOTICE OF INITIAL SITE INVESTIGATION AND
WASTE SITE CLEANUP PERMIT APPLICATION

cc: Edwin P. Madera

**Environmental
Resources
Management**

399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>

12 December 2003
Reference: 1922.12

Steven Calichman
Director of Public Health
Town of Wayland
14 Cochituate Road
Wayland, MA 01778



RE: Notification of Legal Notice Regarding Tier 1 Permit Application
and Phase I Report
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts
Release Tracking Number 3-22408

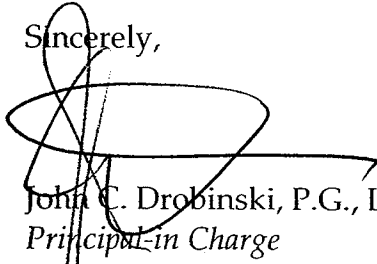
Dear Mr. Calichman:

On behalf of Raytheon Company, Environmental Resources Management (ERM), will be submitting a Tier 1B Permit Application for the above referenced site to the Massachusetts Department of Environmental Protection (DEP). In accordance with 310 CMR 40.0703(8)(a)(2), the Chief Municipal Officer and the Board of Health must be notified of the application. Copies of these documents may be obtained at the DEP Northeast Regional Office, 1 Winter Street, Boston, Massachusetts 02108.

A copy of the NOTICE OF INITIAL SITE INVESTIGATION AND WASTE SITE CLEANUP PERMIT APPLICATION as required by 310 CMR 40.0703(8)(a)(1) is included with this letter. This legal notice will be published in the Wayland Town Crier on 18 December 2003.

Please direct any questions or correspondence to Edwin P. Madera,
Raytheon Company at (978) 440-1813 or the undersigned at (617) 267-
8377.

Sincerely,



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



R. Joseph Fiocco, Jr., P.G.
Senior Project Manager

Enclosures: NOTICE OF INITIAL SITE INVESTIGATION AND
WASTE SITE CLEANUP PERMIT APPLICATION

cc Edwin P. Madera

AFFIDAVIT

Commonwealth of Massachusetts

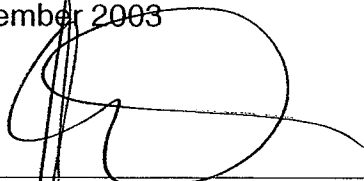
County: Suffolk

City: Boston

BE IT KNOWN that John Drobinski is of legal age and is hereby deposed and being duly sworn, under oath says the following:

In accordance with 310 CMR 40.0703(8)(a)(1), the legal notice will be published by Environmental Resources Management in the following publications:

- Wayland Town Crier – 18 December 2003
- The Environmental Monitor – 23 December 2003

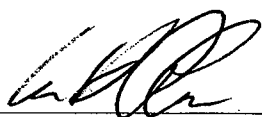


John Drobinski, P.G., LSP

12/12/03

Date

Sworn to before me on 12 December 2003, by John Drobinski, who acknowledged that the foregoing statements are true.



William H. O'Connell
Notary Public

1-22-04

My Commission Expires:

WILLIAM H. O'CONNELL
Notary Public
My Commission Expires Jan. 22, 2004

NOTICE OF INITIAL SITE INVESTIGATION AND
WASTE SITE CLEANUP PERMIT APPLICATION

FORMER RAYTHEON FACILITY
430 BOSTON POST ROAD, WAYLAND, MASSACHUSETTS
RELEASE TRACKING NUMBER 3-22408

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 1B (310 CMR 40.0500). A Phase I – Initial Site Investigation and an Initial Application For Tier 1B Permit was submitted on 17 December 2003 to the Department of Environmental Protection (DEP) pursuant to 310 CMR 40.0703. A permit is required to proceed with a Comprehensive Remedial Response at all Tier 1 sites.

Anyone interested in reviewing the permit application should notify DEP by writing to DEP, BUREAU OF WASTE SITE CLEANUP, PERMIT SECTION, 1 WINTER STREET, BOSTON, MA 02108 by 19 January 2004. If anyone notifies DEP of his or her interest in reviewing or submitting comment on the Tier 1 permit application, 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).

The permit application and the Phase I Report can be viewed at the public repositories located at the Wayland Public Library 5 Concord Road, Wayland, MA 01778, Wayland Board of Health 41 Cochituate Road, Wayland, MA 01778 and on the internet at www.ermne.com with user name: raytheon and password: wayland.

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 John Drobinski, P.G., LSP, ERM, 399 Boylston Street, 6th Floor, Boston, MA 02116 at (617) 646-7800.