

7 February 2003  
Reference: 143.64

401 Water Quality Certification Coordinator  
Department of Environmental Protection  
Northeast Region Office  
Bureau of Resource Protection - Wetlands and Waterways  
205-A Lowell Street  
Wilmington, MA 01887



Subject: Major Project Certification – 401 Water Quality Certification  
Former Raytheon Facility  
430 Boston Post Road  
Wayland, Massachusetts

Dear Representative:

Woodlot Alternatives, Inc. (Woodlot) and Environmental Resources Management, Inc. (ERM) are pleased to provide the wetland impact permit applications to your respective agencies. This application includes a Major Project Certification – 401 Water Quality Certification, and a supporting document titled, *Regulatory Permit Application for Wetland Impact Permit Applications for the Oils and Hazardous Materials Remediation on the Former Raytheon Property, Wayland, Massachusetts*. The remediation is being pursued through the Massachusetts Contingency Plan, Massachusetts Executive Office of Environmental Affairs, Army Corp of Engineers and Town of Wayland Conservation Commission. As part of this process various wetland related permits are required and we have tried to address all the regulatory requirements in one report since there is a substantial amount of overlap between the regulations. The application report is organized into sections discussed below.

1. Executive Summary: Overview of the project.
2. Ecological Characterization: A summary of the Woodlot studies of the natural communities on the site including an endangered species assessment, flooding characterization, and a wetland functions and values assessment.
3. Hazardous Waste Summary: A summary of the ERM studies on oils and hazardous materials (OHM) found in the wetland soils.

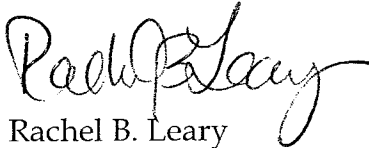
4. Alternatives Analysis: A discussion of the remedial technology options and the process by which the proposed technology was chosen.
5. Proposed Remediation Process: A discussion of the actual remediation activity and how it will be implemented. Site-specific design features and wetland impacts are discussed.
6. Avoidance and Minimization of Impacts: Provides a discussion of aspects of the remediation that will be employed to avoid and reduce temporary wetland impacts. This includes a discussion of the risk-based remediation objectives as required by the Massachusetts Contingency Plan.
7. Restoration Plan: Provides detail of the proposed restoration effort to restore the impacted wetland area.
8. Regulatory Criteria Assessment: This section summarizes the permit review and issuance criteria for the Individual Permit – Army Corps of Engineers and Environmental Protection Agency, Massachusetts Wetland Protection Act, and the Massachusetts Environmental Policy Act. This information should also help address issues related to the State 401 Water Quality Certification. It is provided to help insure that all the regulatory criteria are addressed in this application and the permit reviewers may use this information to help process the applications.
9. Summary: A brief summation of the above information.
10. References: Scientific literature citations.

A number of exhibits and appendices are included which provide more detail on a variety of topics including the alternatives analysis, hazardous waste data, and wildlife and plant surveys. Several exhibits provide support for the restoration plan and the minimization effort and a number of site photos. The application forms and fees are also attached. The input that we received during the pre-application meetings was very helpful and we have made very effort to include those suggestions in our applications. As with any permit application there will likely be additional information, clarification, and modifications that we will need to provide. It will be our pleasure to provide this assistance

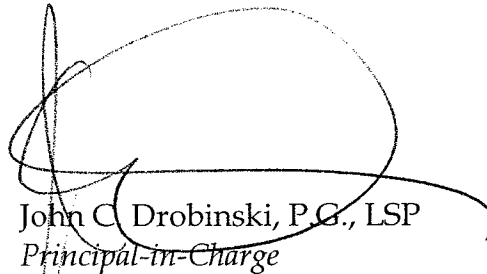
and see the applications through to completion. If you wish to visit the site please call and arrange a time through Mr. John Drobinski LSP, PG of ERM at 617-267-8377 as access to the property is restricted. Also, we have attached permit applications from other agencies that the agency is to be copied on. The department's transmittal form and fee are also attached.

If you have any questions please do not hesitate to contact any of the project team members.

Sincerely,



Rachel B. Leary  
*Project Engineer*

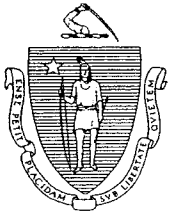


John C. Drobinski, P.G., LSP  
*Principal-in-Charge*

rbl

enclosures: Transmittal Letter and Check  
Major Project Certification - 401 Water Quality Certification  
(3)  
Regulatory Permit Application for Wetland Impact Permit  
Applications for the Oils and Hazardous Materials  
Remediation on the Former Raytheon Property, Wayland,  
Massachusetts (3)  
Environmental Notification Form and Cover Letter (3)

cc: Town of Wayland Conservation Commission (1)



Hand-enter Your Transmittal Number

W 034545

Your unique Transmittal Number can be accessed through DEP's web site or by calling the DEP InfoLine as listed on the last page of this document

Massachusetts Department of Environmental Protection
Transmittal Form for Permit Application and Payment

Instructions

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

2. Your check should be made payable to the Commonwealth of Massachusetts. Please mail your check along with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three (3) 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

For DEP Use Only

Permit No.
Rec'd Date
Reviewer

A. Application Information

DEP Permit Code (the 7 or 8 character code from first page of permit application instructions):
Name of Permit Category: 401 Water Quality Certification
Type of Project or Activity: Limited Project

B. Applicant Information (Firm or Individual)

Name of Firm: Raytheon Company
Or, if party needing this approval is clearly an individual:
Individual's Last Name: First Name MI

Street Address: 528 Boston Post Road Mail Stop 1880
City/Town: Sudbury State: MA Zip Code: 01776 Telephone Number: (978) 440-1813 ext.
Contact: Mr. Edwin P. Madera e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Name of Facility, Site or Individual: Former Raytheon Facility DEP Facility Number (if Known)
Street Address: 430 Boston Post Road e-mail address: (optional)
City/Town: Wayland State: MA Zip Code: 01778 Telephone Number: ( ) ext.

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

Name of Individual or Firm: Environmental Resource Management Inc.
Address: 399 Boylston Street, 6th Floor
City/Town: Boston State: MA Zip Code: 02116 Telephone Number: (617) 267-8377 ext.
Contact: John Drobinski, LSP, PG LSP Number (21E only)

E. Permit - Project Coordination

Is this project subject to MEPA review? [x] yes [ ] no
If yes, indicate the project's EOE file number (assigned when an Environmental Notification Form is submitted to the MEPA unit)
EOEA # Is an Environmental Impact Report Required? [x] yes [ ] no
Is this application part of a larger project for which two or more DEP permits are being or will be sought? [ ] yes [x] no
List any other DEP permits that apply to this project:

Table with 3 columns: Permit Category, Date of Submission (tentative or actual), Transmittal Number (if application already submitted)
Rows: Wetland Protection Act (May 2003), 401 Water Quality Cert (February 2003)

F. Amount Due

Special Provisions: [ ] Fee Exempt\* (city, town or municipal housing authority )(state agency if fee is \$100 or less)
[ ] Hardship Request [payment extensions according to 310 CMR 4.04(3)(c)]
[ ] Alternative Schedule Project (according to 310 CMR 4.05 and 4.10)

\*There are no fee exemptions for 21E, regardless of applicant status

Check #: Dollar Amount: \$250.00 Date:
Please make check payable to the Commonwealth of Massachusetts and mail check and one copy of this form to DEP, P.O. Box 4062, Boston, MA 02211



ERM  
399 BOYLSTON STREET 6TH FLOOR  
BOSTON, MA 02116  
PH. (617) 267-8377

CITIZENS BANK  
MASSACHUSETTS  
5-7017-2110

CHECK DATE Feb. 7, 2003

PAY Two Hundred Fifty and  $\frac{00}{100}$

TO Commonwealth of Massachusetts  
D.E.P.  
P.O. Box 4062  
Boston, MA 02211

AMOUNT \$250.00

AUTHORIZED SIGNATURE

⑈01898⑈ ⑆211070175⑆ 1130150116⑈

ERM

Permit Fee

Project 143.64

Security Features Included. Details on back.

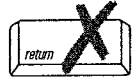


Massachusetts Department of Environmental Protection  
 Bureau of Resource Protection – Wetlands and Waterways  
**BRP WW 10 Major Project Certification**  
**BRP WW 11 Minor Project Certification**  
 401 water Quality Certification for Fill and excavation  
 Projects in waters and Wetlands

W034545  
 Transmittal Number #

**A. Applicant 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. Which permit category are you applying for?

BRP WW 10       BRP WW 11

2. Applicant/Owner:

Raytheon Company

Name

528 Boston Post Road, Mail Stop 1880

Address

Sudbury

City/Town

MA

State

01776

Zip Code

Edwin P. Madera

Contact Person

978-440-1813

Telephone (home)

(work)

3. Authorized Agent

Environmental Resources Management

Name

399 Boylston Street, 6<sup>th</sup> Floor

Address

Boston

City/Town

MA

State

02116

Zip Code

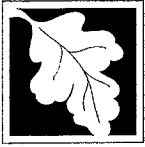
John Drobinski, LSP, PG

Contact Person

617-267-8377

Telephone (home)

(work)



Massachusetts Department of Environmental Protection  
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## B. Project Information

1. Project Location:

430 Boston Post Road

Address

Wayland

City/Town

MA

State

01778

Zip Code

Sudbury River

Nearest or Adjacent Waterbody

2. Project Name (if any):

Raytheon Wetland Remediation

3. a. Describe project purpose:

Per the Massachusetts Contingency Plan, the proposed work involves the remediation of approximately 1.5 acres of wetland soils for the removal of various concentrations of polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and metals that have contaminated the floodplain of the Sudbury River. The basic project purpose is based on the regulatory authority of the MCP, which mandates that remediation be completed to reduce levels of OHMs to achieve a condition of no significant risk. Therefore the applicant will complete remediation of wetland areas that pose a significant risk to human health and the environment to achieve a condition of no significant risk and a permanent solution. Temporary wetland impacts cannot be avoided in order to achieve this purpose. Areas of temporary wetland impacts will be minimized by using a risk-based assessment of the contaminated area to set the clean up target goals. Restoration of the impacted wetland area will be completed to restore a viable wetland community.

b. Is the project

water-dependent

non water-dependent



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**B. Project Information** (cont.)

4. a. provide a brief description of the proposed project (See Application Instructions and include a copy of the Notice of intent, if any.):

The project will remediate an area, 1.5 -acres, of soil contamination in Sudbury River floodplain wetlands. The contamination area will be excavated and the soil removed for appropriate disposal to an off-site disposal facility. Excavation will be to a depth of 1.5-feet, constituting approximately 3,700 cubic yards. The remediation will be staged to minimize wetland impacts and complete the removal in a safe and environmentally sound process. The appropriate safeguards will be employed to avoid and minimize possible wetland impacts. Small impacts will result from flood protection and access. The remediation area will be restored by re-soiling and establishing a viable wetland community.

b. Notice of Intent File number (if any): NOI has not yet been submitted

5. Identify the loss in square feet of each type of resource area (see Application Instructions for additional information.):

a. Bordering vegetated wetland:	<u>74,740</u> square feet
b. Isolated vegetated wetland:	<u>                    </u> square feet
c. Land under water:	<u>                    </u> square feet
d. Total cumulative loss of a. + b. + c.:	<u>74,740</u> square feet
e. Salt marsh:	<u>                    </u> square feet

6. a. Will the proposed project occur in any wetlands or waters designated as "Outstanding Resource Waters"?

Yes       No

If yes has public notice been published in the Environmental Monitor?

Yes       No

Being published concurrently through MEPA  
 Date of Publication

b. Is this project a subdivision or any part of a subdivision?       Yes       No

c. Is the project categorically subject to MEPA?       Yes       No

If yes, has final action been taken?       Yes       No

If yes, please include copy of MEPA certificate.





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**B. Project information (cont.)**

7. Alternatives Analysis:

As related to the project purpose, attach a detailed description of alternatives to the proposed project that were considered and why none are available that avoid adverse impacts to wetlands and waters.

If no alternatives are available, describe how the activity will minimize or mitigate the adverse impacts to wetlands and waters.

See application instructions for information required. Attach required documentation.

**C. Additional Information**

1. Is any of your proposed work exempt from the Massachusetts Wetlands Protection Act or taking place in a federal non-state wetland?

Yes     No

If yes, see Application Instructions for additional information needed.

2. Public notice to a newspaper of general circulation within the area of the proposed activity must be published within 10 days of the date of this application. Is proof of public notice submitted?

Yes     No

(See Application Instructions for additional information)

**D. Certification**

Application is hereby made for water quality certification.

"I certify that I am familiar with the work proposed and that to the best of my knowledge and belief the information contained in this application is true, complete, and accurate"

*Edwin P. Madera*

Applicant's Signature

Edwin P. Madera

Print name

*John Drobinski*

Agent's Signature

John Drobinski, LSP, PG

Print Name

01/30/03

Date