

Abington & Rockland Joint Water Works

April 8, 2010

US EPA, Region 1
PWTF GP Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: BRP WM 13 Potable Water Treatment Facilities General Permit

To Whom It May Concern:

Enclosed, please find a copy of the BRP WM 13 Potable Water Treatment Facilities General Permit Notice of Intent Application and associated transmittal form.

Should you have any questions, please feel free to contact me or Tara McManus at 978-532-1900.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.


Barbara K. Cook, P.E.
Associate

Attachments/Enclosures

APR 19 2010

cc: Daniel F. Callahan, Superintendent, Abington & Rockland Joint Water Works
MassDEP Division of Watershed Management

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Massachusetts

Five Centennial Drive (HQ)
Peabody, MA 01960-7985
100 Foxborough Blvd., Suite 250
Foxborough, MA 02035
225 New Boston Street
Woburn, MA 01801

Connecticut

273 Dividend Road
Rocky Hill, CT 06067

Rhode Island

477B Tiogue Avenue
Coventry, RI 02816

New Hampshire

100 International Drive
Suite 152
Portsmouth, NH 03801

Maine

PO Box 189
York, ME 03909

Vermont

98 South Main Street
Suite 2
Waterbury, VT 05676

New York

301 Manchester Road
Suite 201A
Poughkeepsie, NY 12603

Florida

1990 Main Street
Suite 750
Sarasota, FL 34236

Abington & Rockland Joint Water Works

April 8, 2010

Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd Floor
Worcester, MA 01608

Re: BRP WM 13 Potable Water Treatment Facilities General Permit

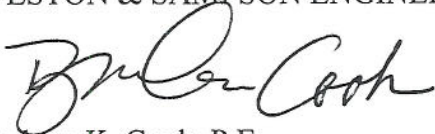
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cc: Daniel F. Callahan, Superintendent, Abington & Rockland Joint Water Works
US EPA Region 1, PWTF GP Processing Municipal Assistance Unit

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Enter your transmittal number

X232698

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://mass.gov/dep/service/online/trasmfrm.shtml>

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:

MassDEP
P.O. Box 4062
Boston, MA
02211

* Note:
For BWSC Permits,
enter the LSP.

A. Permit Information

BRP WM 13

General Permit Notice of Intent

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

2. Name of Permit Category

Surface water discharge from a potable water treatment facility.

3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Abington & Rockland Joint Water Works

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

96 East Water Street

5. Street Address

Rockland

MA

02370

781-878-0901

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Daniel F. Callahan, Superintendent

dcallahan@abrockwater.com

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Great Sandy Bottom Pond Water Treatment Plant

1. Name of Facility, Site Or Individual

Phillips Road

2. Street Address

Pembroke

MA

02359

781-294-8270

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

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)*

Weston & Sampson

1. Name of Firm Or Individual

5 Centennial Drive

2. Address

Peabody

MA

01960-7985

978-532-1900

2375

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

Barbara K. Cook, P.E.

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:

Check Number

Dollar Amount

Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
ONE CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

Request for General Permit Authorization to Discharge Wastewater
(Notice of Intent to be covered by the General Permit (NOI))

Potable Water Treatment Facility (PWTF)
NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information

1. Facility Owner:

Name Abington -Rockland Joint Water Works e-mail dcallahan@abrockwater.com
Street/PO Box 96 East Water Street City Rockland
State Massachusetts Zip Code 02370
Contact Person Dan Callahan Telephone Number 781-878-0901

2. Facility Operator (if different from above):

Name e-mail (optional)
Street/PO Box City
State Zip Code
Contact Person Telephone Number

3. Facility Data (attach topographic map or other map showing facility/discharge location):

Name Great Sandy Bottom Pond WTP e-mail (optional)
Street/PO Box Phillips Road City Pembroke
State Massachusetts Zip Code 02359
Contact Person Dan Callahan Telephone Number 781-878-0901
Latitude 42 degrees 03' 23" N Longitude 70 degrees 49' 57" W

4. Standard Industrial Classification (SIC Codes) and Descriptions of Processes:

SIC Code(s)
Description(s) Water Treatment Plant Residuals

5. Current Permitting Status (please check yes or no):

1. Has a prior NPDES permit been granted for the discharge? Yes (Permit Number:)
No ☒
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ☒ No
3. Is the facility covered by an individual NPDES permit? Yes (Permit Number) No ☒
4. Is there a pending application on file with EPA for this discharge? Yes (Date of submittal:)
No ☒

B. Discharge Information

1. Name of Receiving Waterbody Great Sandy Bottom Pond
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Reservoir
3. State Water Quality Classification: A Freshwater: X Marine Water:

4. Describe the discharge activities for which the owner/applicant is seeking coverage, including process discharges not specifically authorized in the PWTF GP which need to be authorized for discharge (and which attain the

APR 19 2010

effluent limits and other conditions of the general permit). This description should include all treatment methods used on the wastewater prior to discharge including lagoons, baffles, filter presses etc. If lagoons are used at the facility, please include the number and size of lagoons; the size and elevation of the entry pipe; the time of travel from the entry point of the discharge into the lagoon to the entry point to the receiving water; and the length of backwash cycle for any combination of number of filters. (attach extra sheets if necessary):

See attached description.

5. Please provide a diagram depicting the treatment methods, outfalls, and receiving water.

6. Number of outfalls: 3

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:
From the discharge pipes every week on Tuesdays

C. Effluent Characteristics

1. List here and attach information on any water additives used at the facility (Including chemicals for pH adjustment, dechlorination, control of biological growth, and control of corrosion and scale in water pipes):
Chlorine, Potassium Permanganate, Calcium Hydroxide, Alum, Powder Activated Carbon, Polymer (to lime slurry, pre & post)

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.
N/A

3. Are aluminum-containing coagulants used at this facility? Yes ☒ No ☐

4. Does the discharge contain residual chlorine? Yes ☒ No ☐

5. Does the facility provide treatment to remove arsenic from the raw water source? Yes ☐ No ☒

6. Are phosphorus-containing chemicals added to the treated water at this facility? Yes ☐ No ☒

7. All applicants must attach a separate sheet listing all laboratory results (minimum of five) for total recoverable aluminum (in micrograms per liter) taken within the last six months. Do not include dilution when recording your results. See Section 4.4.5 of General Permit for more information.

8. Please include the following effluent data for each outfall: (data only collected for residuals drying beds)

Characteristic (report if measured)	Average Monthly	Maximum Daily
Discharge Flow (gpd)	121,000	140,500
TSS (mg/l)	N/A	N/A
pH (s.u.)	(min) 6.69	(max) 7.5
Total Recoverable Aluminum (ug/l)	45	70
Total Residual Chlorine (ug/l)	40	70

(continued on next page)

8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 N/A and/or C-NOEC _____

9. If the discharge contains aluminum and/or residual chlorine, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water, the dilution factor, and attach any calculations used to support stream flow and dilution calculations (See Appendix VII for dilution calculations and additional information):

7Q10 _____ cfs Dilution Factor 10:1 _____ cfs

D. Endangered Species Act Eligibility

1. Using the instructions in Appendix I of the PWTF GP, under which criterion listed in Part II are you eligible for coverage under this general permit?

A ☒ B _____ C _____ D _____ E _____ F _____

2. If you selected criteria D or F, has consultation with the federal services been completed? Yes _____ No _____

3. If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Yes _____ No ☒ Received "No Species Present" Letter - See attached documentation

4. Attach documentation of ESA eligibility as described below and required at Part 3.4.1 and Appendix I, Part III, Step 4, of the General Permit.

Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present: A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

Criterion B - Section 7 consultation completed with the Service(s) on a prior project: A copy of the USFWS's and/or NMFS's, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

Criterion C - Activities are covered by a Section 10 Permit: A copy of the USFWS's and/or the NMFS's, as appropriate, letter transmitting the ESA Section 10 authorization.

Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

Criterion E - Activities are covered by certification of eligibility: A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I: A copy of the USFWS and/or the NMFS, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of the PWTF GP, under which criterion listed in Part III are you eligible for coverage under this general permit?

1 ☒ 2 ☐ 3 ☐

2. Have any State or Tribal historic preservation officers been consulted in this determination? Yes ☐ No ☒
If yes, attach the results of the consultation(s).

F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date April 6, 2010
Printed Name and Title Dan Callahan, Superintendent

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at www.epa.gov/region1/npdes/pwtfgp.html



Discharge from
decant basin

WTP

Discharge from microscreen
drying beds

Discharge from residuals
drying beds

Great Sandy Bottom Pond

FIGURE 1
ABINGTON ROCKLAND JOINT WATER WORKS
NPDES GENERAL PERMIT, APRIL 2010
GREAT SANDY BOTTOM POND WTP
PEMBROKE, MA

Data Source: Office of Geographic and
Environmental Information (MassGIS),
Commonwealth of Massachusetts
Executive Office of Environmental Affairs



Weston&Sampson.

Discharge Activities Description – Great Sandy Bottom Pond WTP

Background Information

The Great Sandy Bottom Pond WTP has a design capacity of 4 MGD for normal water flows and a peak day hydraulic flow limit of 6 MGD. The MassDEP CPE Evaluation rates the plant at 3.8 MGD based on 24 hour per day operation. The Great Sandy Bottom Pond WTP has an average daily flow of 1.32 MGD and a peak day flow of 1.75 MGD. Currently, the WTP is undergoing improvements to its residuals handling processes.

The two sedimentation basins and the two ABW sand filters discharge residuals and waste backwash water to the residuals collection sump. A combined flow of between 80,000 and 116,000 gallons per day is produced. Two submersible pumps (P-9 and P-10) then pump the residuals/waste backwash water to the new residuals decant basin. If for some reason the decant basin is inoperable, the flows can be diverted directly to the retrofitted residuals sand drying beds. Flow is measured out of the residual collection sump by a 6-inch magnetic flow meter. The sand drying beds will have the capability of recycling water back to the head of the plant through a new decant structure and underdrain system installed in each bed.

Decant Basin Discharge

The new decant basin has a total storage volume of approximately 128,000 gallons. Approximately four times a day, the residuals and waste backwash water will settle in the new decant basin for about 45 minutes. The thickened residuals will be pumped to the residuals drying beds by new submersible pumps (P-851 and P-855) located in the decant basin. Water will then be decanted out of the basin to the effluent return basin by gravity through a 4-inch floating pipeline. Two effluent return pumps (P-7 and P-8) will then pump the recycled water back to the head of the plant upstream of the raw water pumps. A 3-inch flow meter and modulating butterfly valve control the rate of residuals effluent return flow.

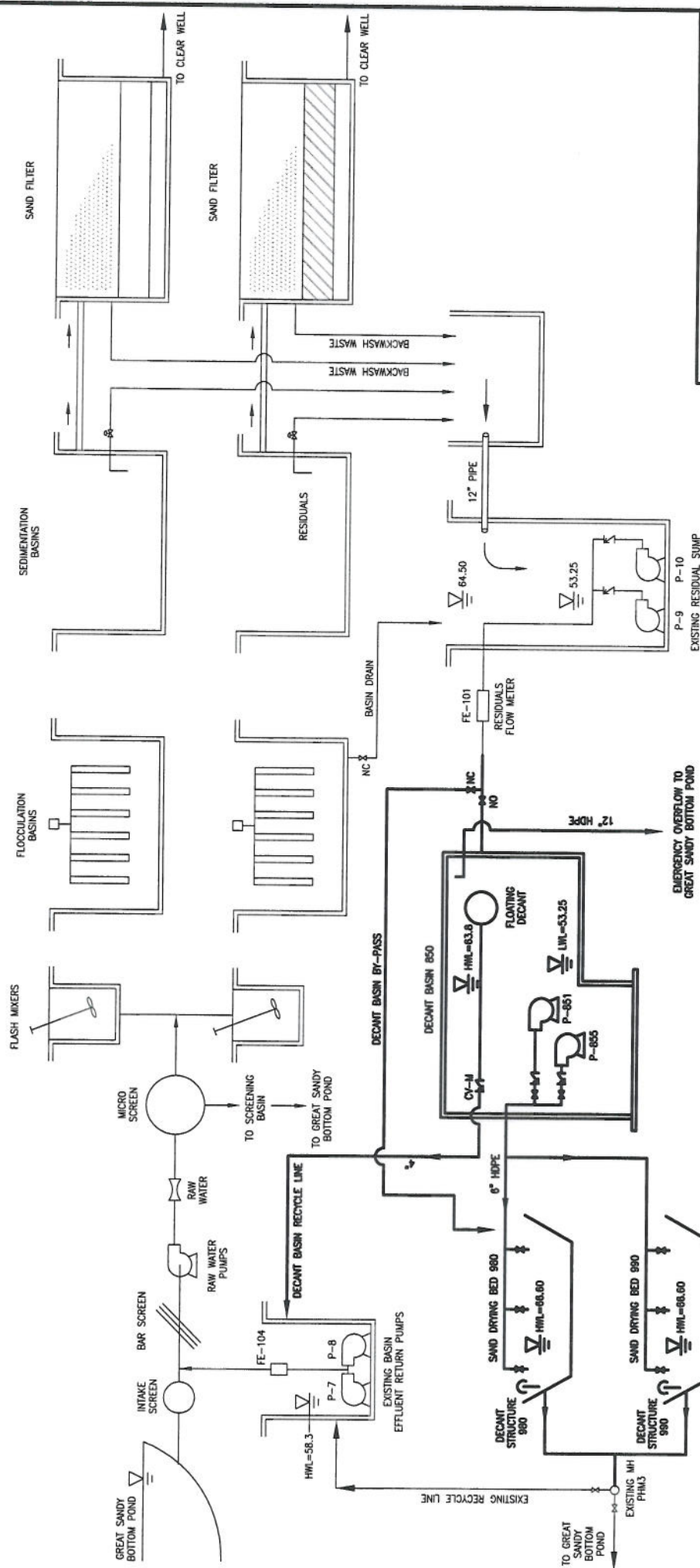
The new decant basin is constructed with a 12-inch HDPE emergency overflow pipe and headwall that discharges to Great Sandy Bottom Pond. This 12-inch emergency overflow is alarmed. The water level sensors in the new basin will de-energize the pumps feeding residuals/waste backwash water into the basin prior to the water in the basin reaching the overflow level. The basin would only overflow if the interlocks failed and water was inadvertently pumped into the decant basin.

Residuals Drying Beds Discharge

The existing residuals lagoons are being retrofitted to new lined residuals sand drying beds. Decanted water from the residuals drying beds can flow by gravity to an existing effluent return basin where it is then pumped by two effluent return pumps (P-7 and P-8) back to the head of the plant upstream of the raw water pumps. The residuals supernatant effluent can also flow back to Great Sandy Bottom Pond where it discharges through a 12-inch RCP pipe and headwall.

Microscreen Drying Beds Discharge

Raw water from Great Sandy Bottom Pond flows through a microscreen before the water is treated. These screens remove twigs and other natural debris. The microscreen has a continuous wash down cycle that is fed by raw water from the pond. The wash down water and debris are diverted to the microscreen drying beds where the water infiltrates into the ground. Emergency overflow from the microscreen drying beds discharges through a 6-inch PVC pipe and headwall.



ABINGTON & ROCKLAND JOINT WATER WORKS GREAT SANDY BOTTOM WTP	
PROCESS SCHEMATIC	
DESIGNED BY: WJN	CHECKED BY: BKC
DATE: APRIL 2010	
Weston & Sampson®	

Great Sandy Bottom Pond WTP

Date	Alum residual ug/L
2/27/2010	33
2/19/2010	62
2/9/2010	59
2/4/2010	31
2/2/2010	29
1/27/2010	6
1/19/2010	52
1/8/2010	39
12/18/2009	39
11/13/2009	53
10/15/2009	36
9/11/2009	42
8/5/2009	14

APPENDIX I

ENDANGERED SPECIES ACT REQUIREMENTS BACKUP DOCUMENTATION

Discharge at the Great Sandy Bottom Pond Water Treatment Plant (WTP), in Pembroke Massachusetts, is considered to meet Criterion A of the Endangered Species Act (ESA). No federally listed threatened or endangered species or federally-designated critical habitats is present. The following text documents procedures used to determine that the discharge sites at the Great Sandy Bottom Pond WTP do not occur in any areas of federally listed threatened or endangered species or federally-designated critical habitats.

Appendix I – Endangered Species Act Requirements for the NPDES Potable Water Treatment Facilities General Permit was first reviewed for endangered species in Pembroke, Massachusetts. Pembroke was not listed in Appendix I as an area where the four species of concern (dwarf wedgemussel, shortnose sturgeon, bog turtle, northern red-bellied cooter) are located.

The Fish and Wildlife Services – New England Field Office web site was then accessed to verify the most up-to-date listing of federally listed endangered and threatened species in Massachusetts. This list (attached) was updated June 22, 2009, and on this list it is noted that the northern red-bellied cooter is in Pembroke, MA. The website containing this list is at the address below:

<http://www.fws.gov/newengland/pdfs/MA%20species%20by%20town.pdf>

A map showing the areas in Massachusetts with known and expected occurrences for the northern red-bellied cooter was also downloaded from the Fish and Wildlife Services – New England Field Office web site which indicated that Pembroke is a town where cooters are present. The map has been attached, however, no date is provided on the map as evidence when it was last updated. The website containing this list is at the address below:

http://www.fws.gov/newengland/pdfs/NRBC_MAP.pdf

Based on the Federally Listed Endangered and Threatened Species in Massachusetts List and the Area with Known and Expected Occurrences for the Northern Red-bellied Cooter in Massachusetts Map, it appears that the cooter is present in Pembroke. However it is not clear where the cooter's specific habitats are nor if they are near the Great Sandy Bottom Pond WTP discharge locations. More specific species mapping was used to show more exact locations of the endangered species habitat area. The most recent electronic mapping of the Natural Heritage & Endangered Species Program (NHESP) Priority Habitats of Rare Species (updated October 2008) and NHESP Estimated Habitats of Rare Wildlife (updated October 2008) were obtained from MassGIS and viewed using ArcView v9.3 software. The NHESP mapping (see attached map) indicates that there are no priority habitats of rare species or estimated habitats of rare wildlife where the Great Sandy Bottom Pond Water Treatment Plant discharges are located.

A phone call to Michael Amaral (US Fish and Wildlife – New England Office Endangered Species Division) was placed to discuss the findings noted above. Mr. Amaral noted that the most current electronic version of NHESP mapping from MassGIS is a sufficient source to locate a more detailed representation of habitat for the northern red-bellied cooter than the List and Map provided on the Fish and Wildlife website. He noted that the US Fish and Wildlife – New England Office relies on the NHESP mapping for the northern red-bellied cooter as the NHESP

data is more accurate than what the Fish and Wildlife Office would have. Mr. Amaral also agreed that it would be appropriate to download the "No Species Present" letter from the Fish and Wildlife website stating that "no species are known to occur in the project area". A copy of this letter has been attached for reference.

In conclusion, the northern red-bellied cooter and its habitat are not likely to occur in the vicinity of the Great Sandy Bottom Pond WTP discharge locations.

O:\Abington Rockland JWWNPDES Water Treatment General Permit\2010\Appendix I\APPENDIX I documentation.doc

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

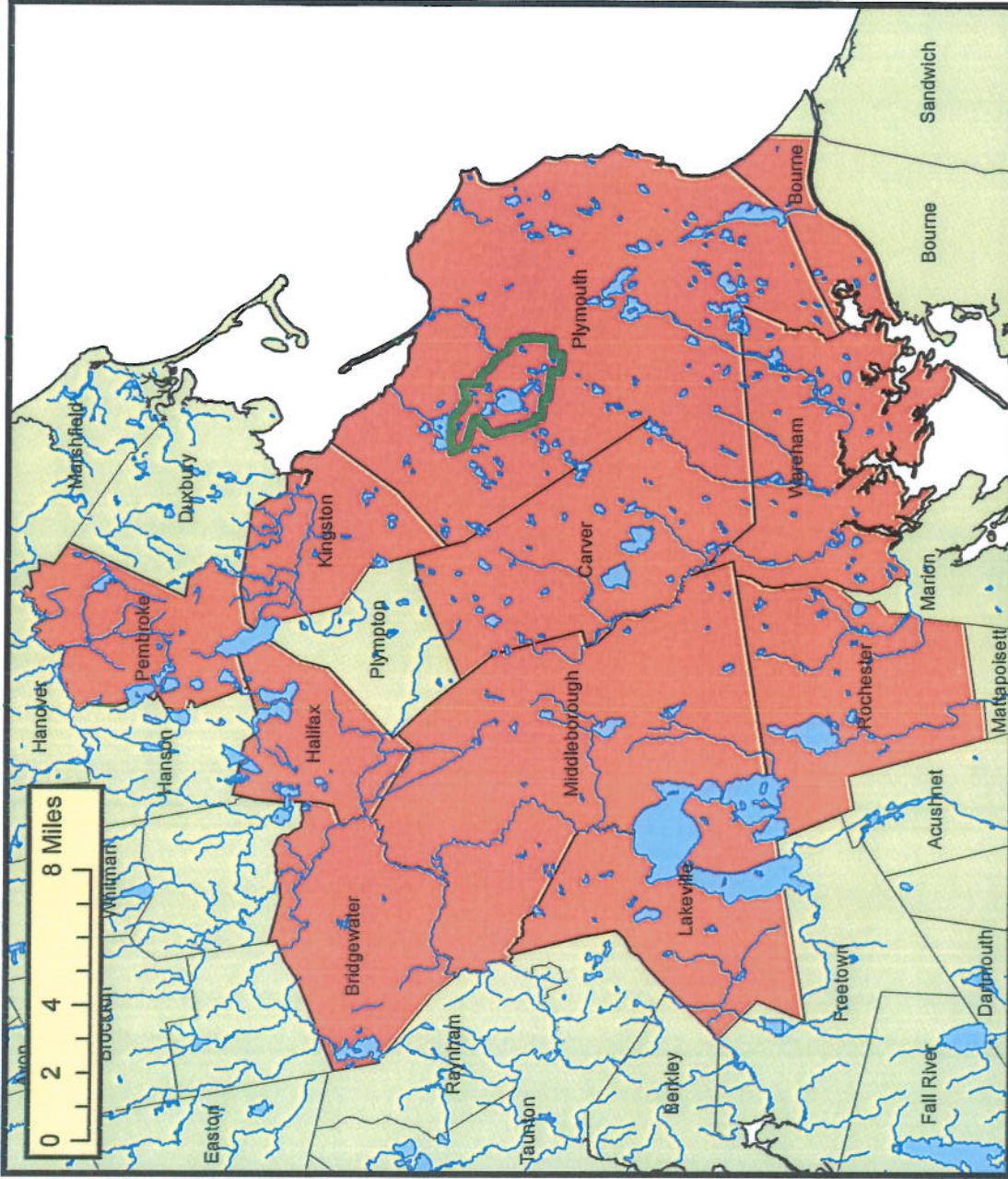
-Eastern cougar and gray wolf are considered extirpated in Massachusetts.

-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.

-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

Revised 06/22/2009

Area with Known and Expected Occurrences for the Northern Red-bellied Cooter in Massachusetts



For a complete description of the Critical Habitat boundary, please visit : http://ecos.fws.gov/docs/federal_register/fr398.pdf



U.S. Fish & Wildlife Service
New England Field Office
Conserving New England's Natural Resources





FIGURE 1
ABINGTON ROCKLAND JOINT WATER WORKS
GREAT SANDY BOTTOM POND WTP

Data Source: Office of Geographic and
 Environmental Information (MassGIS),
 Commonwealth of Massachusetts
 Executive Office of Environmental Affairs

NATURAL HERITAGE MAPPING

- Potential Vernal Pools
- NHESP Certified Vernal Pools
- Town Border
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife



Weston & Sampson.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 4, 2010

To Whom It May Concern:

This project was reviewed for the presence of federally-listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes the review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Anthony Tur at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office