

**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 <u>Village District of Eastman</u>	e-mail <u>weber@eastman.org</u>
Street/PO Box <u>990</u>	City <u>Grantham</u>
State <u>NH</u>	Zip Code <u>03753</u>
Contact Person <u>William S. Weber</u>	Telephone Number <u>(603) 863-6512</u>

2. Facility Operator (if different from above):

Name <u>Joshua Worthen</u>	e-mail (optional) _____
Street/PO Box <u>990</u>	City <u>Grantham</u>
State <u>NH</u>	Zip Code <u>03753</u>
Contact Person _____	Telephone Number <u>(603) 863-6512</u>

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

Name <u>Village District of Eastman</u>	e-mail (optional) _____
Street/PO Box <u>990</u>	City <u>Grantham</u>
State <u>NH</u>	Zip Code <u>03753</u>
Contact Person <u>William S. Weber</u>	Telephone Number <u>(603) 863-6512</u>
Facility Latitude <u>42 30' 47.92</u>	Facility Longitude <u>72 06' 20.00</u>

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

SIC Code(s) <u>1623</u>
Description(s) <u>Water</u>

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

1. Has a prior NPDES permit been granted for the discharge? Yes ☒ (Permit Number: NHG640008)
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 Bog Brook
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Stream
3. State Water Quality Classification: _____ 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

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):

1 Lagoon, Dimension = 114' X 64' X 4', With a liquid capacity of appx. 115K gallons. The invert in = El.99.0 against an assumed El.100, with the lagoon bottom @ El.98.00
Because historically there has been no discharge the time of travel from the entry point of discharge to the receiving
water is unknown as it has never been documented having never happened.
The treatment method is 3 greensand filters for the removal of iron and manganese. The backwash cycle is appx. 1 hour per filter or 3 hours total.

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

6. Number of outfalls: 1 Latitude and Longitude for each outfall (attach additional pages if necessary)
 OUTFALL # Latitude 42 30' 46.94 N Longitude 72 06' 21.11 W
 OUTFALL # Latitude _____ Longitude _____

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:
End of discharge (treatment) swale.

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): Sodium Hypochlorite,
Sodium Hydroxide, Potassium Permanganate

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.
None

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:

Characteristic (report if measured)	Average Monthly	Maximum Daily
Discharge Flow (gpd)	<u>NA</u>	<u>NA</u>
TSS (mg/l)	<u>NA</u>	<u>NA</u>
pH (s.u.)	(min) <u>NA</u>	(max) <u>NA</u>
Total Recoverable Aluminum (ug/l)	<u>NA</u>	<u>NA</u>
Total Residual Chlorine (ug/l)	<u>NA</u>	<u>NA</u>

(continued on next page)

8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 NA and/or C-NOEC NA

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 NA cfs Dilution Factor NA 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 ☐

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 William F. Sullivan Date Feb 2, 2010
Printed Name and Title William F. Sullivan Chair Commissioners

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

February 4th 2010

I hereby certify that my determination, that there are no endangered species at near or within the bounds of our discharge or further in the Town of Grantham, NH, County of Sullivan is based on the information provided in the NOI Appendix II page 3 of 3 and Appendix 1 page 1 of 11 and 1 of 12.

William S. Weber, Facility Owner, Village District of Eastman, Permit # NHG 640008

A handwritten signature in black ink, appearing to read 'W. S. Weber', is written below the printed name.

APPENDIX I ENDANGERED SPECIES ACT REQUIREMENTS

I. Background

In order to meet its obligations under the Clean Water Act and the Endangered Species Act (ESA), and to promote the goals of those Acts, the Environmental Protection Agency (EPA) is seeking to ensure the activities regulated by this general permit do not adversely affect endangered and threatened species and critical habitat. Applicants applying for permit coverage must assess the impacts of their discharges and discharge-related activities on federally-listed endangered and threatened species (“listed species”) and designated critical habitat (“critical habitat”), to ensure that those goals are met. Prior to obtaining general permit coverage, applicants must meet the ESA eligibility provisions of this permit. EPA strongly recommends that applicants follow the guidance in this Appendix at the earliest possible stage to ensure the notification requirements for general permit coverage are complete upon NOI submission. A facility that cannot meet any of the ESA eligibility criteria must apply for an individual permit.

Applicants also have an independent ESA obligation to ensure that their activities do not result in any prohibited “takes” of listed species¹. Many of the measures to protect species required in this general permit and these instructions may also assist in ensuring that the facilities seeking coverage activities do not result in a prohibited taking of species in violation of section 9 of the ESA. If the applicant has plans or activities in areas where endangered and threatened species are located, they may wish to ensure that they are protected from potential takings liability under ESA section 9 by obtaining an ESA section 10 permit (Incidental Take Permit) or by requesting formal consultation under ESA section 7. Facilities seeking coverage that are unsure whether to pursue a section 10 Incidental Take Permit or a section 7 consultation for takings protection, should confer with the appropriate U.S. Fish and Wildlife Service (USFWS)² office or the National Marine Fisheries Service (NMFS), (collectively, “the Services”).

There are four species of concern, found in the areas listed below, that should be noted by owners and operators of facilities seeking coverage under the general permit. These species of concern include the **shortnose sturgeon**, the **dwarf wedge mussel**, the **bog turtle**, and the **northern red-bellied cooter**. The **shortnose sturgeon** is listed under the jurisdiction of the National Marine Fisheries Service and the **dwarf wedgemussel**, the **bog turtle**, and the **northern redbelly cooter** are listed under the jurisdiction of the U.S. Fish and Wildlife Service.

The federally-listed endangered **dwarf wedgemussel** (*Alasmodonta heterodon*) is found in the following areas in Massachusetts and New Hampshire:

- Connecticut River from Northumberland to Dalton, NH (Coos County).
- Connecticut River from Haverhill to Lyme, NH (Grafton County)
- Connecticut River from Lebanon to North Walpole, NH (Grafton and Sullivan Counties).
- Connecticut River from Haverhill to Piermont, NH (Grafton County).
- Ashuelot River from the Surry Mountain Flood Control Project in Surry to Swanzey, NH (Cheshire County).
- South Branch of the Ashuelot River in East Swanzey, NH (Cheshire County).

- Mill River from Whately to Hatfield, MA (Hampshire County).
- Fort River in Amherst, MA (Hampshire County).
- Mill River south of State Route 10 in Northampton, MA (Hampshire County).

The federally-listed endangered **shortnose sturgeon** (*Acipenser brevirostrum*) is found in the following areas in Massachusetts:

- Merrimack River from the Essex Dam in Lawrence, MA to the Merrimack River's mouth (Essex County).
- Connecticut River from Turners Falls, MAs (Franklin, Hampshire, and Hampden Counties) to the Connecticut River's mouth, Connecticut (Hartford, Middlesex, and New London Counties).

The federally-listed threatened **bog turtle** (*Clemmys muhlenbergii*), is found in the following areas in Massachusetts:

- ☐ wetlands and waters in the Towns of Egremont and Sheffield (Berkshire County), MA.

The federally-listed endangered **northern red-bellied cooter** (*Pseudemys rubriventris*) is found in the following areas in Massachusetts:

- bodies of water occurring within the following boundaries: in the Towns of Kingston, Plymouth, Carver, Middleborough, Wareham, Lakeville, Bridgewater and Rochester (Plymouth County), MA.
- bodies of water in the Towns of Bourne and Sandwich (Barnstable County), MA.
- bodies of water in the Town of Raynham (Bristol County), MA.

Maps are available at: http://www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation_Project_Review.htm

Applicants discharging to areas listed above must consult with the Service(s) and certify eligibility with Criteria F to obtain authorization to discharge under the PWTF GP. By terms of this permit, EPA has automatically designated operators as non-Federal representatives for the purpose of conducting informal consultations with NMFS and USFWS (See 50 CFR §402.08 and §402.13).

II. The ESA Eligibility Criteria

A facility seeking coverage by this general permit must demonstrate that it meets one or more of the following criteria:

- Criterion A: No federally-listed threatened or endangered species or their designated critical habitat are likely to occur in the vicinity of the discharge.
- Criterion B: In the course of a separate federal action involving the facility, formal or informal consultation with the Fish and Wildlife Service and/or the National Marine

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN NEW HAMPSHIRE

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Belknap	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Meredith, Alton and Laconia
Carroll	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Albany, Eaton, Madison Wolfeboro, Brookfield and Wakefield
Coos	Canada Lynx	Threatened	Regenerating softwood forest, usually with a high density of snowshoe hare.	All Towns
	Dwarf wedgemussel	Endangered	Connecticut River main channel and Johns River	Northumberland, Lancaster and Dalton
Cheshire	Dwarf wedgemussel	Endangered	S. Branch Ashuelot River and Ashuelot River	Swanzey, Keene and Surry
Grafton	Dwarf wedgemussel	Endangered	Connecticut River main channel	Haverhill, Piermont, Orford and Lyme
	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Holderness
Hillsborough	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Weare
Merrimack	Karner Blue Butterfly	Endangered	Pine Barrens with wild blue lupine	Concord and Pembroke
	Small whorled Pogonia	Threatened	Forests	Danbury, Epsom, Warner and Allenstown
Rockingham	Piping Plover	Threatened	Coastal Beaches	Hampton and Seabrook
	Roseate Tern	Endangered	Atlantic Ocean and nesting at the Isle of Shoals	
	Small whorled Pogonia	Threatened	Forests	Northwood, Nottingham, and Epping
Strafford	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Middleton, New Durham, Milton, Farmington, Strafford, Barrington, and Madbury
Sullivan	Northeastern bulrush	Endangered	Wetlands	Acworth, Charlestown, Langdon and Walpole
	Dwarf wedgemussel	Endangered	Connecticut River main channel	Plainfield, Cornish, Claremont and Charlestown
	Jesup's milk-vetch	Endangered	Banks of the Connecticut River	Plainfield and Claremont

- Eastern cougar, gray wolf and Puritan tiger beetle are considered extirpated in New Hampshire.
- Endangered gray wolves are not known to be present in New Hampshire, but dispersing individuals from source populations in Canada may occur statewide.
- There is no federally-designated Critical Habitat in New Hampshire.

7/31/2008