



December 17, 2009

United States Environmental Protection Agency
New England – Region I
Municipal Assistance
One Congress Street, Suite 1100
Boston, MA 02114-2023

RE: Notice of Intent
NPDES General Permit No. MAG640045
Ashburnham / Winchendon Joint Water Treatment Plant

Dear Sir or Madam;

Please find attached the Notice of Intent submitted for the Ashburnham / Winchendon Joint Water Treatment Plant NPDES Permit No. MAG640045.

If you should have any questions or require additional information please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert Chalifoux', with a large, stylized loop at the beginning.

Mr. Robert Chalifoux
Project Manager

cc: Kathleen Keohane, MA DEP
Leo Collette, AWJWA Chairman
Douglas C. Briggs, Town Administrator (Ashburnham)
James Kreidler, Town Administrator (Winchendon)

**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 Ashburnham Winchendon Joint Water Authority e-mail _____
Street/PO Box 204 Lake Road City Ashburnham
State Massachusetts Zip Code 01430
Contact Person Leo Collette Telephone Number (978) 827-5386

2. Facility Operator (if different from above):

Name Veolia Water North America LLC e-mail (optional) _____
Street/PO Box 204 Lake Road City Ashburnham
State Massachusetts Zip Code 01430
Contact Person Robert Chalifoux Telephone Number (978) 827-5386

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

Name Ashburnham Winchendon Joint Water Treatment Plant e-mail (optional) _____
Street/PO Box 204 City Ashburnham
State Massachusetts Zip Code 01430
Contact Person Robert Chalifoux Telephone Number (978) 827-5386
Facility Latitude 42.6619 Facility Longitude -71.9361

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

SIC Code(s) 4941
Description(s) Municipal Drinking Water Treatment Plant

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 Upper Naukeag Lake
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Lake
3. State Water Quality Classification: _____ Freshwater: ☒ 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):

Filter trains are flushed with raw water and backwashed with treated water from the clearwell. All water is discharged into an exterior lagoon where it sits while solids settle to the bottom. Once the solids have settled the plant operator begins a decanting process which discharges the supernatant back into the Upper Naukeag Lake. The decanting process is begun after visual observation of the lagoon shows solids have settled. Typical detention time is 24 hours. A second lagoon is also available if additional decant time is necessary. Each Lagoon holds 240,000 gallons. Typical Summer/Spring discharge to the lagoon is 68,650 gallons. Typical Fall/Winter discharge to the lagoon is 47,230 gallons as backwash cycles are reduced.

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 42.6620 Longitude -71.9351
 OUTFALL # Latitude Longitude

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:
 Sampling is taken directly at the point of discharge into the Upper Naukeag Lake every Wednesday during the decant period.

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, Cationic Polymer, Polyaluminum Chloride, Sodium Polyphosphate, Sodium Carbonate, Sodium Fluoride

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

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)	68,650	308,000
TSS (mg/l)	20.4	36.0
pH (s.u.)	(min) 6.5	(max) 7.9
Total Recoverable Aluminum (ug/l)	1400	3600
Total Residual Chlorine (ug/l)	150	560

(continued on next page)

8. Continued

Characteristic (report if measured)

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

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 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



Date

12-23-09

Printed Name and Title

Robert Chalick Project Manager

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

Ashburnham / Wichendon Joint Water Treatment Plant
204 Lake Road
Ashburnham, Massachusetts





AWJWA Water Treatment Plant
Lagoon Discharge

204 Lake Road
Ashburnham, MA

Aluminum Results (microgram per liter)

Year	Month	Result
2009	May	1200
2009	June	200
2009	July	1200
2009	August	1600
2009	September	1200
2009	October	560



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

BRP WM 13

Request for General Permit Coverage Surface Water Discharge from a Water Treatment Facility

W068059
Transmittal Number

Date Received

A. Facility 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. Project owner:

Ashburnham/Winchendon Joint Water Authority

Name

204 Lake Rd.

Street/PO Box:

MA

State

Matthew LaPointe

Contact Person

Ashburnham

City

01430

Zip Code

(978) 827-5386

Telephone Number

2. Project operator (if different from above):

Name

Street/PO Box

State

Contact Person

City

Zip Code

Telephone Number

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

Ashburnham/Winchendon Joint Water Authority Water Filtration Facility

Name

204 Lake Rd.

Street/PO Box

Ashburnham

City

MA

State

01430

Zip

usfawjwa@gis.net

Email address (optional)

9788275386

Telephone Number

Matthew LaPointe

Contact Person

4. Standard Industrial Codes (SIC) and Descriptions:

4941

Standard Industrial Code

Description



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

BRP WM 13

**Request for General Permit Coverage
Surface Water Discharge from a Water Treatment Facility**

W068059
Transmittal Number

Date Received

B. Effluent Characteristics

(Refer to general permit in Federal Register Volume 65, Number 221, November 15, 2000, page 69000-69013)

	Average Monthly	Maximum Daily
Flow, gpd [< 1 MGD]	<u>45,000</u>	<u>69,000</u>
TSS [avg. monthly use must be < 30 mg/l; max. daily < 50 mg/l]	<u>2.0</u>	<u>8.2</u>
Settleable Solids [avg. monthly must be < 0.1 mg/l; max. daily < 0.2 mg/l]	<u>N/A</u>	<u>N/A</u>
pH (freshwater 6.5-8.3, saltwater 6.5-8.5)	<u>6.5</u>	<u>8.3</u>
Aluminum [report mg/l]	<u>.06</u>	<u>.13</u>
LC-50 & C-NOEC [if tests previously conducted]	<u>N/A</u>	<u>N/A</u>
Chlorine residual [report mg/l if chlorination used in process]	<u>.03</u>	<u>.06</u>
Receiving waterbody: Upper Naukeag Lake		

C. 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 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 persons or persons directly responsible for gathering the information, I certify that the information is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Matthew LaPointe
Signature

Matthew LaPointe
Printed Name and Title

9-7-05
Date



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 1

1 CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 29, 2005

Mr. Matthew Lapointe
Ashburnham/Winchendon Joint Water Authority
204 Lake Road
Ashburnham, MA 01430

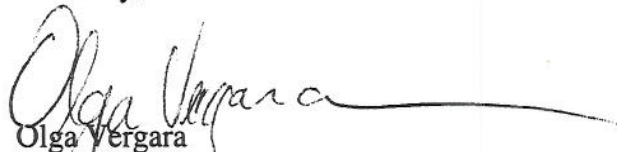
RE: NPDES Notice of Intent for Water Treatment Plant General Permit -
MAG640045 (Ashburnham/Winchendon Joint Water Authority Water Filtration Facility)

Dear Mr. Lapointe:

This letter is to acknowledge that your Notice of Intent (NOI) for the Water Treatment Plant General Permit has been received and has been reviewed by this office as well as by the Massachusetts Department of Environmental Protection (MA DEP). The information submitted appears to be complete and will be kept in our offices until such time as a new Water Treatment General Permit is reissued. Until a new permit is issued, and since you have submitted a timely Notice of Intent (NOI), your facility is administratively continued under the old permit. It is expected that the new General Permit will be reissued in 2006.

Please note that should there be any changes to your processes which may affect your final permit, do not hesitate to contact me and/or my DEP counterpart, Kathleen Keohane. I can be reached at (617)918-1519 and Kathleen can be reached at (508)767-2856.

Sincerely,


Olga Vergara
Environmental Protection Specialist
Municipal Assistance Unit

cc: K. Keohane, MA DEP

Toll Free • 1-888-372-7341

Internet Address (URL) • <http://www.epa.gov/region1>

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COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

ELLEN ROY HERZFELDER
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

September 15, 2005

Matthew LaPointe
Ashburnham/Winchendon Joint Water Authority
204 Lake Road
Ashburnham, MA 01430

**Re: Ashburnham/Winchendon Joint Water Authority Water Filtration Facility
NPDES General Permit for Water Treatment Facility Discharges
Transmittal #W068059 MAG640045 Renewal**

Dear Mr. LaPointe:

The Department of Environmental Protection (DEP), Division of Watershed Management, has received your state permit application for the National Pollutant Discharge Elimination System (NPDES) General Permit for Water Treatment Facility Discharges. We have reviewed the BRP WM 13 application for administrative completeness and determined that all the application requirements have been fulfilled.

NPDES/Surface Water Discharge Permits are issued jointly by DEP and the U. S. Environmental Protection Agency (US EPA). EPA has not yet issued a new general permit for water treatment plant discharges, however, your coverage will be administratively continued and remains in force as described in Section I.C.2.c of the permit. You will receive written confirmation from EPA.

If you have any questions, please feel free to call me at 508-767-2856 or email kathleen.keohane@state.ma.us.

Very truly yours,

A handwritten signature in cursive script that reads "Kathleen Keohane".

Kathleen Keohane
Environmental Engineer

Cc: Paul Hogan
Olga Vergara/EPA

This information is available in alternate format by calling our ADA Coordinator at (617) 574-6872.

<http://www.state.ma.us/dep> • Phone (508) 792-7470 • Fax (508) 791-4131