



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

**5 Post Office Square, Suite 100
Boston, MA 02109-3912**

VIA EMAIL

January 12, 2021

Mr. Bradley Perron, Deputy Director
Salem and Beverly Water Supply Board
50 Arlington Ave.
Beverly, MA 01915

Re: New Authorization to discharge under the NPDES Potable Water Treatment Facilities General Permit (PWTFGP) – Authorization No. MAG640059 for the Arlington Avenue Water Treatment Facility located in Beverly, MA

Dear Mr. Perron:

In the letter addressed to Mr. Peter Smyrnios and dated November 3, 2020, the U.S. Environmental Protection Agency (EPA) authorized the Salem and Beverly Water Supply Board to discharge from the Arlington Avenue Water Treatment Facility (the “Facility”) in accordance with the provisions of the Potable Water Treatment Facilities General Permit (PWTFGP). The November 3, 2020 authorization includes monitoring requirements for total phosphorus because EPA thought chemicals containing phosphorus are used at the Facility and that the Facility discharges to a surface water that is listed as impaired for phosphorus. We have since learned by way of communications with yourself that the Wenham Lake Reservoir, the receiving water for the Facility's discharge, is not currently listed as impaired for phosphorus. Therefore, based on this clarifying information and on the on the review of your Notice of Intent (NOI) received May 11, 2017, EPA hereby retracts the November 3, 2020 authorization and with this letter authorizes the Salem and Beverly Water Board to discharge from the Facility in accordance with the provisions of the PWTFGP. This new authorization does not include monitoring requirements for total phosphorus. The Facility’s General Permit Number is indicated above and should be referenced on all correspondence. The effective date of coverage is the date of signature of this letter.

Your permitted discharge is to the Wenham Lake Reservoir, a Class A waterbody. Enclosed with this PWTFGP authorization to discharge is a summary of effluent limitations and monitoring requirements applicable to your discharge. Please be aware that sufficiently sensitive test methods must be used for any sample analysis conducted in accordance with this permit. See Part 2.1.2.

The summary presented in this authorization letter does not represent the complete requirements of the PWTFGP. Permittees must comply with all the applicable requirements of this General Permit such as discharge limits and monitoring requirements, state permit conditions,

administrative provisions, and other additional requirements including a Best Management Practices (BMP) plan. The complete PWTFGP and other related information can be found at <https://www.epa.gov/npdes-permits/potable-water-treatment-facility-general-permit-pwtf-gp-massachusetts-new-hampshire>.

As indicated in the summary, Whole Effluent Toxicity (WET) testing is required once per calendar year on a rotating quarterly basis, such that WET testing shall be conducted for each quarter (i.e., January-March; April-June; July-September; and October-December) over the course of a 4-calendar year period. EPA recommends that quarterly WET testing is conducted sequentially, meaning each year's quarterly test occurs during the quarter that follows the previous year's quarterly test.

Please note that Part 5 of the PWTFGP includes all monitoring, record-keeping and reporting requirements for the Facility that will become effective on the 1st day of the month following the date of signature on this letter. Facilities are now required to submit monitoring results on a monthly, not quarterly, basis. Unless the Permittee has received an approved Opt-Out Request, the Permittee shall electronically submit its monthly monitoring data in discharge monitoring reports (DMRs) to EPA and the Massachusetts Department of Environmental Protection (MassDEP) using NetDMR. NetDMR is accessed from the internet at <https://netdmr.zendesk.com/hc/en-us>. NetDMR reporting is due no later than the 15th day of the month following the completed reporting period. When DMRs are submitted electronically using NetDMR, the submittal of hard copies is not required.

Also note that when reporting annual WET testing results using NetDMR, you will be prompted to report WET test results at the end of every quarter during each year. The WET testing requirement shall begin the first full quarter following the date of this authorization letter (i.e., testing starts in January and is reported after the close of the quarter in March). As previously discussed, WET testing is required once per year on a rotating quarterly basis. For the three quarters in each calendar year that WET testing is not conducted, the Permittee should enter the NODI code "9", indicating that WET testing is not required for that quarter.

This General Permit and authorization to discharge expires March 6, 2022, except as provided in Part 6.2, or upon submission of a Notice of Termination. EPA appreciates your cooperation in applying for coverage under this General Permit. If you have additional questions, please contact Mark Voorhees at (617) 918-1537.

Sincerely,

TODD BORCI | Digitally signed by TODD BORCI
Date: 2021.01.12 10:49:57 -05'00'

Todd Borci, Chief
Stormwater and Construction Permits Section
Water Division

cc: Xiaodon Ruan, MassDEP (via email: xiaodan.ruan@state.ma.us)

**Summary Information: NPDES General Permit for Potable Water Treatment Facilities
No. MAG640059 Arlington Avenue Water Treatment Facility in Beverly, MA**

Table 1: Authorization Information

Permit Number	MAG640059
Receiving Water	Wenham Lake Reservoir
Outfall Number	001
Monitoring Requirements	See Table 2 below and Part 2 of the PWTFGP
Reporting Requirement	See Part 5 of the PWTFGP

Table 2: Summary of Effluent Limitation and Monitoring Requirements for MAG640059

Effluent Characteristics		Discharge Limitations		Monitoring Requirements	
Parameter	Units	Avg. Monthly	Max Daily	Monitoring Frequency	Sample Type
Flow	MGD	Report	1.0	1/Day	Meter or Estimate
TSS	mg/l	30	50	1/Week	Composite
pH (Class A and B)	S.U.	6.5 - 8.3		1/Week	Grab
pH (Class SA and SB)	S.U.	Not Applicable (N/A)		N/A	N/A
Total Residual Chlorine	µg/l	110	190	1/Week	Grab
Aluminum, Total Recoverable*	µg/l	Report	Report	1/Month	Composite
Arsenic, Total Recoverable	µg/l	N/A	N/A	N/A	N/A
Iron, Total Recoverable	µg/l	N/A	N/A	N/A	N/A
Total Phosphorus, as P (April 1-Oct.31)	µg/l	N/A	N/A	N/A	N/A

*See footnote 13 of Part 2.1.1 of the PWTFGP regarding the additional monitoring requirement for aluminum from the ambient receiving water at a location beyond the influence of the effluent discharge. The ambient receiving water monitoring shall be conducted by grab sampling.

Table 3. Summary of Whole Effluent Toxicity Test Monitoring Requirements

Whole Effluent Toxicity				
Parameter	Units	Limitation	Monitoring Frequency	Sample Type
LC ₅₀ (Acute WET Testing)	%	Report %	1/Year	Composite
C-NOEC (Chronic WET Testing)	%	Report %	1/Year	Composite
Hardness	mg/l	Report	1/Year	Composite
Total Residual Chlorine	mg/l	Report	1/Year	Grab
Alkalinity	mg/l	Report	1/Year	Composite
pH	S.U.	Report	1/Year	Grab
Specific Conductance	umhos/cm	Report	1/Year	Composite
Total Solids	mg/l	Report	1/Year	Composite
Total Dissolved Solids	mg/l	Report	1/Year	Composite
Ammonia Nitrogen as N	mg/l	Report	1/Year	Composite
Total Organic Carbon	mg/l	Report	1/Year	Composite
Total Recoverable Aluminum	mg/l	Report	1/Year	Composite
Total Recoverable Cadmium	mg/l	Report	1/Year	Composite
Total Recoverable Copper	mg/l	Report	1/Year	Composite
Total Recoverable Lead	mg/l	Report	1/Year	Composite
Total Recoverable Nickel	mg/l	Report	1/Year	Composite
Total Recoverable Zinc	mg/l	Report	1/Year	Composite
Diluent Whole Effluent Toxicity				
Hardness	mg/l	Report	1/Year	Grab
Alkalinity	mg/l	Report	1/Year	Grab
pH	S.U.	Report	1/Year	Grab
Specific Conductance	umhos/cm	Report	1/Year	Grab

Ammonia Nitrogen as N	mg/l	Report	1/Year	Grab
Total Organic Carbon	mg/l	Report	1/Year	Grab
Total Recoverable Aluminum	mg/l	Report	1/Year	Grab
Total Recoverable Cadmium	mg/l	Report	1/Year	Grab
Total Recoverable Copper	mg/l	Report	1/Year	Grab
Total Recoverable Lead	mg/l	Report	1/Year	Grab
Total Recoverable Nickel	mg/l	Report	1/Year	Grab
Total Recoverable Zinc	mg/l	Report	1/Year	Grab

Table 3 Note: The diluent shall be collected from the receiving water at a location beyond the influence of the effluent discharge.