



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

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

VIA EMAIL

November 7, 2019

Mr. Timothy W. D. MacDonald
Director of Water Operations
City of Cambridge
250 Freshwater Parkway
Cambridge, MA 02138

Re: Updated Effluent Limitation and Monitoring Requirements for NPDES Potable Water Treatment Facilities General Permit (PWTFGP) – Authorization No. MAG640040 for the Walter J. Sullivan Water Treatment Plant in Cambridge, MA

Dear Mr. MacDonald:

Enclosed please find updated Effluent Limitation and Monitoring Requirements for MAG640040. The updates include corrections of transcription errors and clarifications. The updated Effluent Limitation and Monitoring Requirements included in this letter supersede the Effluent Limitation and Monitoring Requirements included in your authorization letter dated October 21, 2019. 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 of the PWTFGP.

Please note that 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>.

If you have additional questions, please contact Mark Voorhees at (617) 918-1537.

Sincerely,

Newton Tedder, Acting Chief
Stormwater and Construction Permits Section
Water Division

cc: Sam Corda, Cambridge Water Department (via email: scorda@cambridgema.gov)
Xiaodon Ruan, MassDEP (via email: xiaodan.ruan@state.ma.us)

**Summary Information: NPDES General Permit for Potable Water Treatment Facilities
No. MAG640040 Walter J. Sullivan Water Treatment Plant in Cambridge, MA**

Table 1: Authorization Information

Permit Number	MAG640040
Receiving Water	Fresh Pond 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 MAG640040

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 range		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.