

- b) Is the facility covered by an individual NPDES permit for other discharges? yes ☐ no ☒
If yes, Permit Number: _____
- c) Is there a pending NPDES application on file with EPA for this discharge? yes ☐ no ☒
If yes, date of submittal: _____ and permit number, if available _____

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

Map attached? ☒ See Attachment A - MBTA Everett Facility Site Map

B. Discharge Information (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: Mystic River
Freshwater ☐ Marine Water ☒
State Water Quality Classification Class SB
Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) River

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s). **Line drawing or flow diagram attached?** ☒ See Attachment B – Dynamometer Discharge

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) The facility uses two (2) engine dynamometers. Non-contact cooling water is discharged from both dynamometers at one outfall.

4. Number of Outfalls 1 Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at http://www.epa.gov/tri/reporting/siting_tool. Attach additional pages if necessary.

Outfall # 1	Latitude <u>42.395955</u>	Longitude <u>-71.066697</u>
Outfall #	Latitude _____	Longitude _____
Outfall #	Latitude _____	Longitude _____

5. For each Outfall provide the following discharge information:

Outfall # 1

- a) Maximum Daily Flow 0.013 MGD Average Monthly Flow 0.0065 MGD

NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.

- b) Maximum Daily Temperature 140 °F Average Monthly Temperature 132 °F

- c) Maximum Monthly pH 8 s.u. Minimum Monthly pH 6 s.u.

- d) Outfall's discharge is: continuous ☐ intermittent ☒ seasonal ☐

Outfall # _____

- a) Maximum Daily Flow _____ MGD Average Monthly Flow _____ MGD

NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.

- b) Maximum Daily Temperature _____ °F Average Monthly Temperature _____ °F

- c) Maximum Monthly pH _____ s.u. Minimum Monthly pH _____ s.u.

- d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

Outfall # _____

- a) Maximum Daily Flow _____ MGD Average Monthly Flow _____ MGD

NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.

- b) Maximum Daily Temperature _____ °F Average Monthly Temperature _____ °F

- c) Maximum Monthly pH _____ s.u. Minimum Monthly pH _____ s.u.

d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

6. Is the source of the NCCW potable water? yes ☒ no ☐

If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 2.9 MGD

Attach any calculation sheets used to support stream flow and/or dilution calculations. **See Attachment C – NPDES Estimated 7Q10**

8. For facilities that discharge to Massachusetts surface waters:

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached? ☒ **See Attachment D – Surface Water Temperature Rise Calculations**

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? yes ☐ no ☒

c) If yes, provide the name of ACEC _____

Note: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.

C. Chemical Additives

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? yes ☐ no ☒

2. If yes, attach a listing of each chemical used. Include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for typically acceptable aquatic organism).

3. Was the listing submitted with the facility's 2008 NCCWGP NOI? yes ☐ no ☐

D. NCCW Source Water Information

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).

Source MWRA (Everett) Name of Source Water Mass Water Resource Authority

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)? yes ☐ no ☐ If yes, registration number _____

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.

Test results attached? ☐

4. Does the facility use both a primary and backup source of NCCW? yes ☐ no ☒ If yes, **attach information** that identifies and explains the primary and backup sources of NCCW and how often the backup supply was used in the past three years.

E. Best Technology Available for Cooling Water Intake Structures (CWISs)

If the facility's discharge is covered by this General Permit and the facility **withdraws non-contact cooling water from a surface water**, you are subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit? yes ☐ no ☒
- a) If no, explain _____ and skip to F.
- b) If yes, was the facility-specific BTA description submitted with the facility's 2008 NCCW GP NOI?
yes ☐ no ☐
- c) If yes, does that description accurately describe the facility current operations and practices? yes ☐ no ☐

2. If the facility is subject to the General Permit's BTA requirements and is requesting coverage under the NCCWGP for the first time, or if you answered "No" to question E.1.c. above, attach the facility-specific BTA description as required in Part 4.2 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet.

Include in your description:

- a) Measures to meet the General Permit Part 4.3.a general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrate; or the required alternative monitoring plan frequency and/or protocol.
- b) A characterization of the source water body's aquatic life habitat in the vicinity of each CWIS during the seasons when the CWIS may be in use.
- c) The attributes of the current CWIS.
- d) The design measures of the CWIS.
- e) The operation measures of the CWIS.
- f) The historical occurrence of impinged fish for the past five years.
- g) If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system.
- h) Other components to reduce impingement and/or entrainment of aquatic life.

3. Provide the following information for each CWIS to support your attached facility-specific BTA description:

- a) The design capacity of the of the CWIS _____MGD
- b) Maximum monthly average intake of the CWIS during the previous five years _____MGD
- c) The month in which this flow reported in 3.b. occurred _____
- d) The maximum through-screen design intake velocity _____feet/second (fps)

4. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

- a) The source water's annual mean flow in MGD as available from USGS or other appropriate source
_____MGD
- b) The design intake flow as a % of the source water's annual mean flow _____ %
Attach calculations if equal to or less than 5% of annual mean flow.
- c) The source water's 7Q10 _____MGD
- d) The design intake flow as a percent of the source water's 7Q10 _____%

5. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?** ☐

F. Endangered Species Act Eligibility Information

Using the instructions in Appendix 2 of the NCCW GP, which of the following criteria apply to your facility? USFWS

Criteria: A ☒ B ☐ C ☐

1. If you selected USFWS criteria B, has consultation with the U.S. Fish and Wildlife Service been completed?
yes ☐ no ☐

2. If consultation with US Fish & 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 ☐

3. Attach documentation of ESA eligibility for USFWS as required at Part 3.4 and Appendix 2 of the General Permit.
Documentation attached? See Attachment E – Official USFWS Endangered Species List

4. Please indicate if your facility **directly intakes water for non-contact cooling** from any of the following waterbodies:

- ☐ Merrimack River
☐ Connecticut River
☐ Piscataqua River
☐ Taunton River

EPA will consult with the National Marine Fisheries Service on cooling water intakes covered under this permit in areas (in the above waterbodies) of the endangered Shortnose Sturgeon and Atlantic Sturgeon.

G. National Historic Properties Act Eligibility

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes ☐ no ☒

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).

3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C have you met?
☐ 1 ☐ 2 ☐ 3

H. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

I. Signature Requirements

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR § 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) 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 my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted 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.

Signature Janis Kearney Date 2-2-15

Printed Name and Title Janis Kearney, Director of Environmental Compliance

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 a 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.

Attachment A

MBTA Everett Maintenance Facility Site Map



D.M.H.
R. 17.56
(17.56)
I=13.6

NEW 6" CISP W/6"
FLAP GATE @ C.B.
FLAP GATE INCLUDED
WITH PRICE OF PIPE

NEW 10"
CISP

EMERGENCY EXIT
D.M.H. TO BE REMOVED
AS PART OF BLDG.
CONSTRUCTION.

EXISTING 8" V.C. LINE TO
BE REPLACED WITH 85'
OF 12" R.C.P.

NEW 125' OF 12" R.C.P.

D.M.H. TO BE
ABD.

C.B. TO BE
ABD.

C.B.
R. 17.98
(18.10)
I=11.9
TO BE ADJ.

M.H.
R. 19.47
(19.47)
I=11.5-12

BUS

NEW ADDITION

LINE TO
BE ABD.
NEW 6"
CISP
NEW 6"
CISP

TIED INTO
6" line

access
point

C.B.

C.B.
R. 18.46
(18.46)

I=10.3

D.M.H.
R. 18.91
(18.91)

I=10.7

2000 GAL. STORAGE
TANKS, SEE BO/M-1

1000 GAL
OIL STOR
SEE BO.

Attachment B
Dynamometer Discharge

C

11/5

2-1-6

T

1-4

Attachment C
NPDES NCCW ESTIMATED 7Q10

Facility	Permit No.	Receiving Water (Watershed)	7Q10 (MGD)	7Q10 (cfs)
Ashland Hercules Water Technologies Chicopee	MAG250848	Connecticut River	1235	1910
Baker Commodities North Billerica	MAG250026	Concord River	16.1	24.9
Chemplastia Florence	MAG250960	Mill River (Connecticut)	3.2	4.8
Communications & Power Industries - Beverly Microwave Division Beverly	MAG250520	Unnamed Trib to Bass River (North Coastal)	0.01	0.01
Concrete Block Insulating Systems, Inc. West Brookfield	MAG250121	Wetlands leading to Quaboag River (Chicopee)	0.11	0.17
Eastern Point Condos Shrewsbury	MAG250018	Lake Quinsigamond (Blackstone)	Lake	
Eastport Bayside LLC Harborview Place Plymouth	MAG250020	Plymouth Harbor	Marine	
Fall River Tool & Die Fall River	MAG250017	Sucker Brook (Mount Hope Bay)	0.04	0.06
Flo Chemical Ashburnham	MAG250957	Phillips Brook (Nashua)	0.04	0.07
Fortifiber Corp. Attleboro	MAG250033	Bungay River (Ten Mile)	0.16	0.24
Four-in-One Chelmsford	MAG250244	Tributary to River Meadow Brook (SuAsCo)	0.01	0.01
Gutierrez Company Westford	MAG250976	(SuAsCo)	Wetland	
Haartz Corporation Acton	MAG250006	Conant Brook (SuAsCo)	0.01	0.01

Facility	Permit No.	Receiving Water (Watershed)	7Q10 (MGD)	7Q10 (cfs)
Riverdale Mills Northbridge	MAG250279	Blackstone River	29	45
Saint-Gobain Containers Milford	MAG250911	Charles River	Wetlands	
Simonds Industries Fitchburg	MAG250022	Nashua	6.0	9.3
Sinclair Mfg. Corp., Norton	MAG250030	Charley Brook (Taunton)	0.19	0.29
Steinerfilm, Inc. Williamstown	MAG250037	Broad Brook (Hoosic)	0.52	0.8
Union Wharf Boston	MAG250979	Boston Harbor	Marine	
United County Industries Millbury	MAG250014	Blackstone River	24.9	38.5
The Weetabix Company, Inc. Clinton	MAG250759	South Nashua River	1.71	2.64
Weston Corporate Center	MAG250979	Charles	Quarry	

(9/27/2013)

Attachment D

Surface Water Temperature Rise Calculations

The basic equations used for the calculation of river temperature rise are as follows:

$$\Delta T_r = m_p \div m_r * \Delta T_p$$

Where:

ΔT_p = change in temperature, effluent – influent, °F

m_p = mass of effluent, lbs (MGD if volume is used)

m_r = mass of river, lbs (MGD if volume is used)

ΔT_r = change in river temperature, °F

Solution:

$$\Delta T_p = \text{effluent} - \text{influent} = 140^\circ \text{ F} - 80^\circ \text{ F} = 60^\circ \text{ F}$$

$$\Delta T_r = m_p \div m_r * \Delta T_p = 0.013 \text{ MGD} \div 2.9 \text{ MGP} * 60^\circ \text{ F} = 0.2689^\circ \text{ F}$$

Note: The Mystic River is estimated to have an average temperature of 80°F based on the “MYSTIC RIVER WATERSHED AND COASTAL DRAINAGE AREA, 2004-2008 WATER QUALITY ASSESSMENT REPORT”; Prepared by: Jamie W. Carr, Massachusetts Department of Environmental Protection, Division of Watershed Management; Report Number:71-AC-2; DWM Control Number:CN170.2; dated March 2010. The report identifies temperature for Class SB as <85°F (29.4°C) nor a maximum daily mean of 80°F (26.7°C.



United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland



Consultation Code: 05E1NE00-2015-SLI-0201

January 12, 2015

Event Code: 05E1NE00-2015-E-00333

Project Name: MBTA Everett Shops

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: MBTA Everett Shops

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
<http://www.fws.gov/newengland>

Consultation Code: 05E1NE00-2015-SLI-0201

Event Code: 05E1NE00-2015-E-00333

Project Type: Transportation

Project Name: MBTA Everett Shops

Project Description: The MBTA is seeking coverage under EPA's Non-Contact Cooling Water General Permit for the maintenance garage located at 80 Broadway, Everett, MA. The facility supports the operations of MBTA's public transportation vehicles.

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: MBTA Everett Shops

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-71.0671734 42.3950829, -71.0695338 42.3924523, -71.0697913 42.3923572, -71.0704779 42.3924206, -71.0711216 42.391755, -71.0723233 42.392896, -71.0695359 42.3965408, -71.0662743 42.3993614, -71.0647723 42.3985675, -71.0655019 42.3979352, -71.0656306 42.3972047, -71.0671734 42.3950829)))

Project Counties: Middlesex, MA | Suffolk, MA



United States Department of Interior
Fish and Wildlife Service

Project name: MBTA Everett Shops

Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.



United States Department of Interior
Fish and Wildlife Service

Project name: MBTA Everett Shops

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Attachment F

Previous Authorization to Discharge under the Noncontact Cooling Water General Permit for
MBTA Everett Maintenance Facility – MAG250005

Dated April 2, 2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

APR 02 2013

Janis O. Kearney, Director
Environmental Compliance
MBTA
10 Park Plaza
Boston, MA 02116-3974

RE: Authorization to discharge under the Noncontact Cooling Water General Permit for MBTA Everett Maintenance Facility, 80 Broadway, Everett, MA 02149, National Pollutant Discharge Elimination System (NPDES) Authorization Number MAG250005

Dear Ms. Kearney:

Based on a review of MBTA's March 13, 2013 amended notice of intent (NOI), the US Environmental Protection Agency (EPA) authorizes the discharge of noncontact cooling water from the Everett facility listed above in accordance with the provisions of the 2008 NPDES Noncontact Cooling Water General Permit (the "NCCW" General Permit). Enclosed is a copy of the March 25, 2013 concurrence letter from the Massachusetts Department of Environmental Protection (MassDEP) to EPA. The NCCW General Permit was issued pursuant to the Clean Water Act, as amended. The environmental permit regulations at 40 CFR § 122.28 specify the applicability, administration, and exemptions (if any) of general permits. These regulations were used to develop the NCCW General Permit. The NCCW General Permit is posted at <http://www.epa.gov/region1/npdes/nccwgp.html>.

Your authorization number is MAG250005 and authorization to discharge is effective on May 1, 2013. The NCCW General Permit and authorization to discharge under it expires on July 31, 2013, unless as otherwise provided for in Part 7.2 of the NCCW General Permit.

The source of the noncontact cooling water is the MWRA municipal water supply. The MBTA facility's permitted discharge is Outfalls 001 to the Mystic River, a Class SB water in the Mystic River watershed (MA-71). The temperature limits which apply to your facility's discharge are for Class SB waters as indicated in the NCCW General Permit. The effluent limitation for maximum daily discharge flow is 0.01 MGD. Discharge flow, temperature, pH, and total residual chlorine (TRC) monitoring are required. The authorized discharge limits for TRC are listed below.

7Q10 = 2.8 MGD

Outfall 001	Discharge Vol MGD	Dilution Factor	TRC Criteria ug/l	TRC Limit mg/l
Daily max	0.01	281	19	1.0 mg/l
Avg Monthly	0.004	701	11	1.0 mg/l

The Commonwealth's Implementation Policy for the Control of Toxic Pollutants in Surface Waters, February 23, 1990, limits the maximum effluent concentration of total residual chlorine to 1 mg/l. Therefore, a limit of 1 mg/l is included as the maximum daily limit

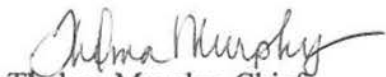
For your convenience, a summary of the discharge limits and monitoring requirements for Outfall 001 is enclosed. However, your facility must comply with all of the applicable requirements of the NCCW General Permit, including effluent monitoring, narrative water quality standards, record keeping and reporting requirements. Monitoring, record keeping and reporting requirements for your facility are found in Parts 6, 8.3, and 8.4 of the NCCW General Permit, respectively.

Under separate cover, EPA's Water Technical Unit will send you a supply of DMR forms and instructions for your use. Please note that EPA has developed a web-based tool named "NetDMR" that allows permittees to electronically submit their DMRs and other reports to EPA via a secure internet connection. NetDMR is now available for use at facilities in New Hampshire and Massachusetts, and information concerning NetDMR can be found at <http://www.epa.gov/netdmr>. Although the NCCW General Permit does not currently require the use of NetDMR, EPA expects that future permits will include a requirement for its use. Accordingly, EPA is requesting that permittees subject to the requirements of the NCCW General Permit consider using NetDMR during this permit cycle. In order to begin using NetDMR, a facility must participate in some initial training which is provided at no cost by EPA. Please contact Norma Mason at (617) 918-1879 if you are interested in registering for the NetDMR training or have questions about the use of NetDMR.

In the future, if the facility does not meet the NCCW General Permit conditions or if there is a change to the discharge which is not covered by the NCCW General Permit, then an application for discharge must be made to this Agency at least **180 days** in advance of the proposed discharge(s). See 40 CFR §122.21. With certain statutory exceptions, discharges to waters of the U.S. without obtaining a NPDES permit are in violation of Section 301(a) of the Clean Water Act and subject to the civil and/or criminal enforcement provisions of Section 309 of the Act.

Thank you in advance for your cooperation. Please contact Ms. Austine Frawley at 617-918-1065 or Frawley.austine@epa.gov if you have any questions.

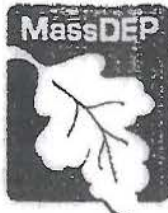
Sincerely yours,



Thelma Murphy, Chief
Stormwater and Construction Permits Section
Water Permits Branch, Office of Ecosystem Protection

Enclosures: MassDEP's March 25, 2013 concurrence letter
Summary of Outfall discharge limits and monitoring requirements

cc: R. Kubit, MassDEP
NPDES File MAG250005



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 627 Main Street, Worcester MA 01608 • 508-792-7650

DEVAL L. PATRICK
Governor

RICHARD K. SULLIVAN JR.
Secretary

TIMOTHY P. MURRAY
Deputy Secretary

KENNETH L. KIMMEL
Commissioner

Ms. Austine Frawley, OEP 6-04
US Environmental Protection Agency
Five Post Office Square – Suite 100
Boston, MA 02109-3912

March 25, 2013

RE: MBTA Everett Maintenance Facility
Noncontact Cooling Water General Permit Number MAG250005

Dear Ms. Frawley:

The Department of Environmental Protection, Division of Watershed Management, has reviewed the MWRA's March 13, 2013 amended notice of intent for this facility to discharge noncontact cooling water (NCCW) under the NPDES Noncontact Cooling Water General Permit. The source of the NCCW is the MWRA water supply. The Department concurs that this facility should be authorized to discharge to the Mystic River, Class SB water body in the Mystic River watershed (MA-71).

Number of outfalls:	1
Maximum daily flow:	0.01 MGD
Instream Monitoring:	Not required – no rise in water body temperature
pH	8.6 su from NOI; therefore, recommend use of Federal limit for SB waters which is 6-9 SU
Toxicity Testing:	Not required

Proposed total residual chlorine limits are:

Outfall 001	Discharge Vol MGD	Dilution Factor	TRC Criteria ug/l	TRC Limit ug/l
Daily max	0.01	281	19	1.0 mg/l
Avg Monthly	0.004	701	11	1.0 mg/l

The Commonwealth's Implementation Policy for the Control of Toxic Pollutants in Surface Waters, February 23, 1990, limits the maximum effluent concentration of total residual chlorine to 1 mg/l. Therefore, a limit of 1 mg/l is included as the maximum daily limit.

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-855-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep

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Outfall 001 Discharge Limits and Monitoring Requirements

During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge NCCW from Outfall 001. The discharge shall be limited and monitored as specified below.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	Average Monthly	Maximum Daily	Monitoring Frequency	Sample Type
Flow, MGD	---	1.0 MGD ¹	1/Week	Estimate or Totalizer
Discharge Temperature in °F Class SA and SB	Report	80°F ^{2,3}	1/Week	Grab
pH Class SA and SB	-----	6.0-9.0 s.u. ^{3,4,5}	1/Week	Grab report maximum and minimum
Total Residual Chlorine ⁶ Class SA and SB, mg/l	1.0 mg/l	1.0 mg/l	1/Month	Grab

¹ Discharges and intakes must be consistent with all terms and conditions of the permit and must not violate applicable surface water quality standards. Effluent flow is limited to the flow reported by the permittee on its Notice of Intent.

² The discharge temperature limit shall not be exceeded (314 CMR 4.05(4)(b)(2)(a))

³ There shall be no change from background conditions that would impair any uses assigned to the receiving water class.

⁴ The discharge shall not be more than 0.2 pH units from background conditions.

⁵ MassDEP, with EPA concurrence, may expand the pH range to the federal standard 6.0-9.0 s.u., on a case-by-case basis when conditions warrant it.

⁶ Monitoring for total residual chlorine is only required for dischargers using potable water for NCCW. See also Part 1.2.5 of the GP.

Attachment G

Mass DEP Transmittal Form X264776

2014 Non Contact Cooling Water General Permit – BRP WM 11



Enter your transmittal number

X264776

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 11

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

Non Contact Cooling Water General Permit

2. Name of Permit Category

3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Massachusetts Bay Transportation Authority

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

10 Park Plaza, Suite 6720

3. First Name of Individual

4. MI

5. Street Address

Boston

MA

02116

617-222-1557

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Janis Kearney

jkearney@mbta.com

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

MBTA Everett Maintenance Facility

1. Name of Facility, Site Or Individual

80 Broadway

2. Street Address

Everett

MA

02149

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)*

1. Name of Firm Or Individual

2. Address

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

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