

**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L.Ch 21, §§26-53),

**Massachusetts Water Resources Authority**

is authorized to discharge from a facility located at

**UV Test Facility at Winsor Dam Powerhouse  
Quabbin Reservoir and Winsor Dam  
Belchertown, MA 01007**

to receiving water named

**Swift River, Chicopee River Watershed (MA-36)**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective **upon signature**.

This permit and the authorization to discharge expire at midnight, two (2) years from the effective date.

This permit consists of 5 pages in Part I including effluent limitations, monitoring requirements and 35 pages in Part II including General Conditions and Definitions.

Signed this 10<sup>th</sup> day of February, 2003

/Signature on File/

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Director  
Office of Ecosystem Protection  
Environmental Protection Agency  
Boston, MA

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Director  
Division of Watershed Management  
Department of Environmental Protection  
Commonwealth of Massachusetts  
Boston, MA

PART I

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge effluent from outfall serial number 001 combined chlorinated/dechlorinated and UV test water to the Swift River. Such discharges shall be limited and monitored by the permittee as specified below.

<u>Effluent Characteristic</u>	<u>Units</u>	<u>Discharge Limitation</u>			<u>Monitoring Requirement</u>	
		<u>Average Monthly</u>	<u>Average Weekly</u>	<u>Maximum Daily</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow <sup>1, 2, 3</sup>	gallons per day	***	***	6.3	Daily	Recorder
Total Residual Chlorine <sup>4, 5</sup>	ug/l	50	***	50	Continuous	Recorder

Footnotes:

1. For flow, report total flow used for each operating date.
2. Flow must be measured for each treatment train daily to assure the dilutions anticipated by the permittee and submitted as part of the application are achieved.
3. Flow used for testing described in the fact sheet will exceed releases required under the 1927 Acts of Massachusetts. MWRA will discharge at least 20 mgd at Winsor. When Quabbin Reservoir's operating range is not in a drought warning or drought emergency stage as defined in the MWRA's approved Drought Management Plan, and/or there is no demand on MWRA from non-MWRA communities due to DEP declared states of emergency, MWRA will discharge 22 mgd at Winsor.
4. Total Residual Chlorine is to be sampled continuously and report the monthly average and daily maximum for the monthly reporting period. Weekly trend charts should also be submitted.
5. The chlorinated waste stream shall be dechlorinated prior to mixing with any other stream.

Part I.A.3.

- a. The discharge shall not cause a violation of the water quality standards of the receiving waters.
  - b. The pH shall be in the range of 6.5 through 8.3 standard units but no more than 0.5 units outside of the background range or equal to incoming reservoir pH. There shall be no change from background conditions that would impair designated uses.
  - c. These waters shall be free from floating, suspended and settleable solids in concentrations or combinations that would impair any use assigned to this inland water, that would cause aesthetically objectionable conditions, or that would impair the benthic biota or degrade the chemical composition of the bottom.
  - d. These waters shall be free from color and turbidity in concentrations or combinations that are aesthetically objectionable or would impair any use assigned to this inland water.
  - e. For receiving waters designated as Class B, these waters shall be free from oil, grease, and petrochemicals that produce a visible film on the surface of the water, impart an oily taste to the water or an oily or other undesirable taste to the edible portions of aquatic life, coat the banks or bottom of the water course or are deleterious or become toxic to aquatic life.
  - f. These waters shall have no taste or odor other than of natural origin.
4. The Massachusetts Water Resources Authority must provide adequate notice to the Director of any substantial change in the volume or character of pollutants being discharged by the Massachusetts Water Resources Authority. Information shall include:
- a. The quantity and quality of the influent and;
  - b. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the UV Test Facility at Winsor Dam Powerhouse.
5. Toxics Control
- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
  - b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

6. Operational Plan

Prior to discharge from the facility, the permittee shall submit an operational plan. An operations and maintenance manual shall satisfy this permit condition. At a minimum the plan shall include:

- a. Facility overview
- b. Details of operation and controls, including notification system
- c. Maintenance schedules
- d. Emergency contingency plan - detailing contact information in event of a failure including notification of the McLaughlin State Trout Hatchery.

**B. UNAUTHORIZED DISCHARGES**

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from the outfall listed in Part I A.1. of this permit. Discharges of wastewater from any other point sources are not authorized by this permit and shall be reported in accordance with Section D.1.e. (1) of the General Requirements of this permit ( Twenty-four hour reporting).

**C. MONITORING AND REPORTING**

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the month following the effective date of the permit.

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director and the State at the following addresses:

Environmental Protection Agency  
Water Technical Unit (SEW)  
P.O. Box 8127  
Boston, Massachusetts 02114

The State Agency address for all reports is:

Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention  
Western Regional Office  
436 Dwight Street  
Springfield, MA 01103

Signed and dated Discharge Monitoring Report Form(s) and all other reports required by this permit shall also be submitted to the State at:

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
Surface Water Discharge Permit Program  
627 Main Street, 2nd Floor  
Worcester, Massachusetts 01608

and to:

Massachusetts Department of Fisheries, Wildlife and Environmental Law Enforcement  
Massachusetts Division of Fisheries and Wildlife  
Field Headquarters  
One Rabbit Hill Road  
Westborough, Massachusetts 01581

#### **D. STATE PERMIT CONDITIONS**

1. This Discharge Permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) under Federal and State law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the MA DEP pursuant to M.G.L. Chap.21, §43.
2. Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this Permit is declared, invalid, illegal or otherwise issued in violation of State law such permit shall remain in full force and effect under Federal law as a NPDES Permit issued by the U.S. Environmental Protection Agency. In the event this Permit is declared invalid, illegal or otherwise issued in violation of Federal law, this Permit shall remain in full force and effect under State law as a Permit issued by the Commonwealth of Massachusetts.