

MODIFICATION OF
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. Chap. 21, §§26-53),

Upper Blackstone Water Pollution Abatement District
("UBWPAD")

is authorized to discharge from:

Upper Blackstone Water Pollution Abatement District
50 Route 20
Millbury, MA 01527

which discharges to a receiving water named the Blackstone River; in accordance with effluent limitations, monitoring requirements and other conditions set in the permit signed on September 30, 1999, with the following changes as set forth herein and listed as follows:

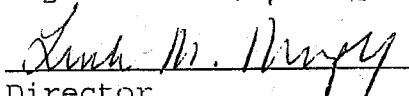
This modifies the permit issued on September 30, 1999.

This permit modification shall become effective 30 days from the date of signature on the final permit modification.

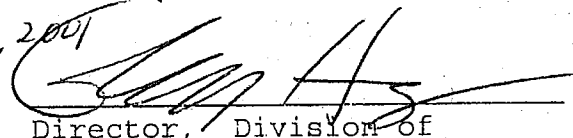
This permit modification, the permit, and the authorization to discharge shall expire at midnight, May 10, 2006.

This permit modification consists of 8 attached pages.

Signed this 19 day of December, 2005



Director
Office of Ecosystem Protection
Environmental Protection Agency
Region I
Boston, MA



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

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The following modifications are made to effluent limitations and monitoring requirements.

Delete the following effluent limitations and monitoring requirements:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u> (specify units)			<u>Monitoring Requirement</u>	
	Average Monthly	Average Weekly	Maximum Daily	Measurement Frequency	Sample Type
Flow, MGD	56	----	----	Continuous	See Footnote 1
BOD ₅ , mg/l (November to April)	30	45	50	Daily ²	24-hr comp ³
TSS, mg/l (June to October)	10	15	17	Daily ²	24-hr comp ³
Total Ammonia Nitrogen, in mg/L as N					
(December to April)	10	20	Report	3/Week	24-hr comp ³
(May)	3.0	6.0	Report	3/Week	24-hr comp ³
(June to October)	2.0	4.0	Report	3/Week	24-hr comp ³
(November)	8.0	16	Report	3/Week	24-hr comp ³
Cadmium, ug/l					
	1.0	-	2.0	1/Week	24 hour comp ³
Copper, Total, ug/l					
	7.2	-	10	1/Week	24 hour comp ³
Zinc, Total, ug/l					
	65	-	72	1/Week	24 hour comp ³

Add the following effluent limitations and monitoring requirements:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u> (specify units)			<u>Monitoring Requirement</u>	
Average Annual	Average Monthly	Average Weekly	Maximum Daily		Measurement Frequency	Sample Type
Flow, MGD	56	----	----		Continuous	See Footnote 1
CBOD ₅ ,						
(November to April)						
mg/l	25	40	45		Daily ²	24-hr comp ³
lbs/day	11,676					
(June to October)						
lbs/day	4,670					
(May) lbs/day	9,341					
TSS,						
(June to October)						
mg/l	15	15	22		Daily ²	24-hr comp ³
lbs/day	7,006					
(May) lbs/day	9,341					
(November to April)						
lbs/day	14,011					

Monitoring Requirement

Discharge Limitations
(specify units)
Average Maximum
Monthly Weekly Daily

Measurement Sample
Frequency Type

Total Ammonia Nitrogen,
(December to April)
mg/l as N
lbs/day

12 24 Report 3/Week 24-hr comp³
5,600

(May)
mg/l as N
lbs/day

5.0 10 Report 3/Week 24-hr comp³
2,330

(June to October)
mg/l as N
lbs/day

2.0 4.0 Report 3/Week 24-hr comp³
934

(November)
mg/l as N
lbs/day

10 20 Report 3/Week 24-hr comp³
4,670

Phosphorus, Total
(April 1 - October 31)
lbs/day

350

Cadmium, ug/l
Copper, Total, ug/l
Zinc, Total, ug/l

2.0 3.1 1/Week 24 hour comp³
7.2 10.2 1/Week 24 hour comp³
91.3 91.3 1/Week 24 hour comp³

Add the following to Footnote 1 on page 4:

"The flow limit of 56 MGD is an annual average instead of a monthly average. Each month, the permittee shall report the annual average flow that is calculated from the monthly average flow from the reporting month and the monthly average flows from the preceding 11 months."

In footnote 5, change reference to Standard methods for the Examination of Water and Wastewater from the 18th Edition to the 20th Edition.

I. B. OPERATION AND MAINTENANCE OF THE SEWER SYSTEM

Delete subparagraph 2. Infiltration/Inflow, and substitute the following:

2. Infiltration/Inflow

The provisions of this subparagraph shall not, in any way, alter, diminish, or transfer MADEP's authority to regulate and ensure the proper operation or maintenance of sewer systems pursuant to, but not limited to, 314 C.M.R. 12.00 and 314 C.M.R. 7.00. The provisions of this subparagraph speak to the UBWPAD's role as a facilitator, and only that of a facilitator, for purposes of its member communities achieving elimination of excessive I/I. Notwithstanding the preceding sentence, nothing in this subparagraph shall alter the UBWPAD's obligation to comply with all effluent limitations of the permit.

(a) UBWPAD, with the cooperation of its member communities, shall oversee establishment of a working group to develop and implement strategies to eliminate excessive infiltration/inflow ("I/I") to optimize local sewer service and to ensure that flows to its treatment facilities do not cause violations of effluent limitations in this Permit. The strategies shall include the following efforts by the Permittee's member communities:

(1) implementation of wastewater metering programs to quantify community wastewater flows and to estimate member community I/I;

(2) implementation of mechanisms to ensure that member communities report unauthorized overflow events to EPA and MADEP;

(3) implementation of maintenance plans and inspection programs by member communities;

(4) identification of I/I reduction priorities within the member community collection systems, with consideration of such factors as public health impacts (e.g., basement flooding), water quality impacts (e.g., sanitary sewer overflows or "SSOs"), cost effectiveness, and value effectiveness; and

(5) pursuing appropriate financial assistance programs, such as grants and loans for I/I removal.

Starting on April 1, 2002, by April 1st of every year, UBWPAD shall submit to EPA and MADEP a written summary of the progress of such efforts during the previous calendar year. The summary shall include, to the extent available, I/I quantities in member communities, a graph of flows to the treatment plant during the year and an analysis of I/I trends (i.e., is I/I being reduced in member communities), a description of maintenance and inspection programs implemented by the member communities, and the amount of funding member communities allocated to I/I evaluation, planning, design and construction.

(b) Reopener: If EPA and MADEP are not satisfied with the progress of such cooperative efforts, they may reopen this permit, utilizing permit modification procedures, to add to the permit more detailed I/I planning and remediation requirements, including the issuance of individual permits to member communities, or adding the member communities as co-permittees directly regulated under this permit.

Note: In addition to the reopener, EPA and MADEP always retain their rights to respond to violations of legal requirements through enforcement (e.g., to require member communities to implement I/I reduction measures to abate any SSOs). In addition, EPA and MADEP retain the right to seek to cover the member communities under general or individual permits (subject to public comment and appeal rights at the time).

I. C. DEVELOPMENT OF LIMITATIONS FOR INDUSTRIAL USERS

Delete the first paragraph on page 7 of the Permit and substitute the following:

On April 13, 2001, UBWPAD submitted to EPA for review and approval a draft local limits report. UBWPAD shall cooperate with EPA in developing its final report based on comments received by EPA and in accordance with EPA's Guidance Manual for the Development and Implementation for Local Discharge Limitations Under the Pretreatment Program (December, 1987) and shall list all metals in total recoverable form. The final report shall include EPA's comments in the letter dated October 10, 2000 from Justin Pimpare to Thomas K. Walsh and an assessment of how the POTW performs with respect to influent and effluent of pollutants, water quality concerns, sludge quality, sludge processing concerns/inhibition, biomonitoring results, activated sludge inhibition, worker health and safety and collection system concerns. UBWPAD shall submit its final local limits report to EPA for review and approval within forty-five (45) days of receipt of EPA's comments on the draft local limits report.

I.E. COMBINED SEWER OVERFLOWS (CSO)

Delete Section I.E. in its entirety.

I.F. SLUDGE CONDITIONS

Delete Paragraph I.F.3.b and substitute the following:

"The monthly average concentration of carbon monoxide in the exit gas from the sewage sludge incinerator stack, corrected to seven percent oxygen, does not exceed 100 ppm on a volumetric basis."

Delete the phrase "The CO monitor and" from the beginning of Paragraph I.F.4.b.

Delete Paragraph I.F.7.g. and substitute the following:

"The oxygen concentration in the exit gas from the sewage sludge incinerator. Report the oxygen concentration used to determine the CO values reported in Paragraph 7.b."

ATTACHMENT 1 - Chlorination System Report

Delete Attachment 1 in the permit and substitute the following:

Starting in the year 2002, UBWPAD shall submit to EPA and MADEP an annual report on December 20 of each year, for the prior 12-month period ending on October 31 of the reporting year, summarizing all exceedances of the TRC and fecal coliform effluent limits during the previous year, the estimated or measured fecal coliform and chlorine discharge levels during the exceedance, and measures taken to fix the problem and to prevent future occurrences.