

**U.S. EPA 2008 Multi-Sector General Permit Monitoring Guidance
For Discharges into Impaired Waters (Part 6.2.4) - Parameters and Methods
For Operators Discharging into Massachusetts Waters**

Pollutant Causing Impairment ¹	Monitoring Parameter ²	EPA or Approved Method Nos. ³
Ammonia (Un-ionized)	Ammonia-Nitrogen	350.1
Cause Unknown	NMR	--
Chlorine	NMR	--
Flow alterations (Non-pollutant)	NMR	--
Metals	Total: Aluminum Arsenic Cadmium Chromium Copper Iron Lead Nickel Zinc	200.7 ; 200.8 ; 200.9
Nitrogen (Total)	Nitrogen, Total	351.1/351.2 + 353.2 ; USGS I-4650-03
Noxious aquatic plants	NMR	--
Nutrients	Phosphorus, Total Nitrogen, Total	365.1 ; 365.2 ; 365.3 ; SM 4500-P-E 351.1/351.2 + 353.2 ; USGS I-4650-03
Oil and Grease	NMR	--
Organic enrichment/low DO	NMR	--
Other habitat alterations (Non-pollutant)	NMR	--
Other Inorganics	NMR	--
Pathogens ⁴	E. Coli Enterococcus Fecal Coliform	1103.1 ; 1603 1106.1 ; 1600 1680 ; 1681
Pesticides	NMR	--
pH	pH	150.2
Priority organics	NMR	--
Salinity/TDS/Chloride	NMR	--
Siltation	Total Suspended Solids	160.2
Taste, odor, color	NMR	--
Thermal modifications	Temperature	SM 2550
Suspended Solids	Total Suspended Solids	160.2
Turbidity	Turbidity	180.1
Unknown toxicity	NMR	--

¹ [Massachusetts Year 2008 Integrated List of Waters](#)

² "NMR" indicates no monitoring required

³ Additional EPA-approved methods available at [40 CFR 136](#)

⁴ Pathogens:

- If discharge is to coastal or marine waters (Class SA, SB) or any brackish fresh water influenced by saline backwaters, sample for enterococci
- If discharge is to fresh water (Class A or B) water, sample for *E. coli*
- If discharge is to a water designated for shellfishing, sample for fecal coliform

See Massachusetts Surface Water Quality Standards ([314 CMR 4.00](#)) for surface water classes and uses