

Appendix G
New Hampshire Small MS4 Permit Monitoring Requirements
For Discharges into Impaired Waters - Parameters

See <https://www.epa.gov/cwa-methods> for approved EPA test methods under 40 CFR Part 136.

Pollutant Causing Impairment¹	Monitoring Parameter²
2-Methylnaphthalene	2-Methylnaphthalene and all other PAHs
Acenaphthene	Acenaphthene and all other PAHs
Acenaphthylene	Acenaphthylene and all other PAHs
Aluminum	Aluminum, Total
Ammonia (Un-ionized)	Ammonia – Nitrogen
Anthracene	Anthracene and all other PAHs
Arsenic	Arsenic, Total
Benthic-Macroinvertebrate Bioassessments (Streams)	Contact NHDES Watershed Management Bureau for requirements
Benzo[a]anthracene	Benzo[a]anthracene and all other PAHs
Benzo[a]pyrene	Benzo[a]pyrene and all other PAHs
Benzo[b]fluoranthene	Benzo[b]fluoranthene and all other PAHs
Benzo[g,h,i] perylene	Benzo[g,h,i] perylene and all other PAHs
Benzo[k]fluoranthene	Benzo[k]fluoranthene and all other PAHs
Biphenyl	Biphenyl and all other PAHs
BOD, Biochemical oxygen demand	NMR
Cadmium	Cadmium, Total
Chloride	Chloride
Chlorophyll-a	Total Phosphorus (freshwater) Total Nitrogen (marine waters)
Chromium	Chromium, Total
Chrysene	Chrysene (C1-C4) and all other PAHs
Copper	Copper, Total
Cyanobacteria hepatotoxic microcystins	Total Phosphorus (freshwater) Total Nitrogen (marine waters)
DDD	NMR
DDE	NMR
DDT	NMR
Dibenz[a,h]anthracene	Dibenz[a,h]anthracene and all other PAHs
Dieldrin	Dieldrin
Dioxin (including 2,3,7,8-TCDD)	NMR
Dissolved oxygen saturation	Dissolved Oxygen Temperature BOD ₅ Total Phosphorus (freshwater) Total Nitrogen (marine waters)
E. coli	E. coli
Endrin	Endrin
Enterococcus	Enterococcus
Estuarine Bioassessments	Total Nitrogen
Excess Algal Growth	Total Phosphorus (freshwater) Total Nitrogen (marine waters)
Fecal Coliform	Fecal Coliform
Fishes Bioassessments (Streams)	Contact NHDES Watershed Management Bureau for requirements

Fluoranthene	Fluoranthene and all other PAHs
Fluorene	Fluorene and all other PAHs
Foam/Flocs/Scum/Oil Slicks	Contact NHDES Watershed Management Bureau for requirements
Habitat Assessment (Streams)	Contact NHDES Watershed Management Bureau for requirements
Heptachlor	Heptachlor
Indeno[1,2,3-cd]pyrene	Indeno[1, 2, 3-cd] pyrene and all other PAHs
Invasive Aquatic Algae	Total Phosphorus (freshwater) Total Nitrogen (marine waters)
Iron	Iron, Total
Lead	Lead, Total
Lindane	Lindane
Low flow alterations	NMR
Manganese	Total Manganese
Mercury	NMR unless potentially present such (e.g., salvage yards crushing vehicles with Hg switches)
Napthalene	Napthalene and all other PAHs
Nitrogen (Total)	Nitrogen, Total
Non-Native (Aquatic) Plants	NMR
Other flow regime alterations	NMR
Oxygen, Dissolved	Dissolved Oxygen Temperature BOD ₅ Total Phosphorus (freshwater) Total Nitrogen (marine waters)
pH	pH
Phenanthrene	Phenanthrene and all other PAHs
Phosphorus (Total)	Phosphorus, Total
Physical substrate habitat alterations	Contact NHDES Watershed Management Bureau for requirements
Polychlorinated biphenyls	NMR
Pyrene	Pyrene and all other PAHs
Sedimentation/Siltation	Total Suspended Solids
Taste, odor, color	NMR
Turbidity	Total Suspended Solids and Turbidity
Zinc	Zinc, Total

¹ [New Hampshire 2012 Section 305\(b\) and 303\(d\) Surface Water Quality Report](#)

² “NMR” indicates no monitoring required

“Total Phosphorus (freshwater)” indicates monitor for total phosphorus where a stormwater discharges to a water body that is freshwater

“Total Nitrogen (marine water)” indicates monitor for total nitrogen where a stormwater discharges to a water body that is a marine or estuarine water