

**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 Impairment <sup>1</sup>          | Monitoring Parameter <sup>2</sup>  |
|--|--|
| 2-Methylnapthalene                                 | 2-Methylnapthalene 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]fluoroanthene 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)<br>Total Nitrogen (marine waters)  |
| Chromium   | Chromium, Total  |
| Chrysene   | Chrysene (C1-C4) and all other PAHs  |
| Copper   | Copper, Total  |
| Cyanobacteria hepatotoxic microcystins             | Total Phosphorus (freshwater)<br>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<br>Temperature<br>BOD <sub>5</sub><br>Total Phosphorus (freshwater)<br>Total Nitrogen (marine waters) |
| E. coli  | E. coli  |
| Endrin   | Endrin   |
| Enterococcus                                       | Enterococcus   |
| Estuarine Bioassessments                           | Total Nitrogen   |
| Excess Algal Growth                                | Total Phosphorus (freshwater)<br><br>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)<br>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<br>Temperature<br>BOD <sub>5</sub><br>Total Phosphorus (freshwater)<br>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  |

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

<sup>2</sup> “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