

## Remediation General Permit Appendix III

### Effluent Limits and Monitoring Requirements by Sub-Category

| <b>Category I - Petroleum Related Site Remediation</b>                       |                                        |                                                                |                                                                        |                                      |
|------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|
| <b>Sub-category A - Gasoline Only Sites</b>                                  |                                        |                                                                |                                                                        |                                      |
| <b><u>Parameter</u> *</b>                                                    | <b><u>CAS</u><br/><u>Number(s)</u></b> | <b><u>Effluent Limit</u></b>                                   | <b><u>Limit type</u><br/><u>based on</u><br/><u>monthly sample</u></b> | <b><u>Sample</u><br/><u>Type</u></b> |
| 1. Total Suspended Solids (TSS)                                              |                                        | 30 milligrams/liter (mg/l),<br>50 mg/l for hydrostatic testing | monthly average                                                        | grab                                 |
| 3. Total Petroleum Hydrocarbons (TPH)                                        |                                        | 5.0 mg/l                                                       | daily maximum                                                          | grab                                 |
| 5. Benzene (B)                                                               | 71432                                  | 5 ug/l , 50.0 ug/l for hydrostatic testing only                | daily maximum                                                          | grab                                 |
| 9. Total Benzene, Toluene, Ethyl Benzene,<br>and Xylenes (BTEX) <sup>4</sup> |                                        | 100 ug/l                                                       | daily maximum                                                          | grab                                 |
| 10. Ethylene Dibromide (EDB) (1,2-<br>Dibromoethane)                         | 106-93-4                               | 0.05 ug/l                                                      | daily maximum                                                          | grab                                 |
| 11. Methyl-tert-Butyl Ether (MtBE)                                           | 1634-04-4                              | 70.0 ug/l                                                      | daily maximum                                                          | grab                                 |
| 12. tert-Butyl Alcohol (TBA) (Tertiary-<br>Butanol)                          | 75-65-0                                | Monitor Only (ug/L)                                            | daily maximum                                                          | grab                                 |
| 13. tert-Amyl Methyl Ether (TAME)                                            | 994-05-08                              | Monitor Only (ug/L)                                            | daily maximum                                                          | grab                                 |
| 14. Naphthalene <sup>5</sup>                                                 | 91-20-3                                | 20 ug/l                                                        | daily maximum                                                          | grab                                 |

\* Numbering system is provided to allow cross-referencing to Part 3 of the Notice of Intent (Contaminant Information) in Appendix V, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

| <b>Category I - Petroleum Related Site Remediation</b> |                                 |                                                                                                                                                   |                         |                                                                                                                                                   |                         |                                                          |                               |
|--------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category A - Gasoline Only Sites</b>            |                                 |                                                                                                                                                   |                         |                                                                                                                                                   |                         |                                                          |                               |
| <u><b>Metal parameters</b></u>                         | <u><b>CAS<br/>Number(s)</b></u> | <u><b>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> = 50<br/>mg/l CaCO3 for<br/>discharges in<br/>Massachusetts (ug/l) <sup>11</sup></b></u> |                         | <u><b>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> =<br/>25 mg/l CaCO3 for<br/>Discharges in New<br/>Hampshire (ug/l) <sup>11</sup></b></u> |                         | <u><b>Limit type<br/>based on<br/>monthly sample</b></u> | <u><b>Sample<br/>Type</b></u> |
|                                                        |                                 | <u><b>Freshwater</b></u>                                                                                                                          | <u><b>Saltwater</b></u> | <u><b>Freshwater</b></u>                                                                                                                          | <u><b>Saltwater</b></u> |                                                          |                               |
| 45. Lead                                               | 7439921                         | 1.3                                                                                                                                               | 8.5                     | 0.5                                                                                                                                               | 8.5                     | monthly average                                          | grab                          |
| 51. Iron                                               | 7439896                         | 1,000                                                                                                                                             |                         | 1,000                                                                                                                                             |                         | daily maximum                                            | grab                          |

| <b>Category I - Petroleum Related Site Remediation</b>                                                            |                                 |                                        |                                                          |                               |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category B - Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges)</b> |                                 |                                        |                                                          |                               |
| <u><b>Parameter</b></u>                                                                                           | <u><b>CAS<br/>Number(s)</b></u> | <u><b>Effluent Limit</b></u>           | <u><b>Limit type<br/>based on<br/>monthly sample</b></u> | <u><b>Sample<br/>Type</b></u> |
| 3. Total Petroleum Hydrocarbons (TPH)                                                                             |                                 | 5.0 mg/l                               | daily maximum                                            | grab                          |
| 5. Benzene (B)                                                                                                    | 71432                           | 50.0 ug/l for hydrostatic testing only | daily maximum                                            | grab                          |
| 9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup>                                         |                                 | 100 ug/l                               | daily maximum                                            | grab                          |
| 14. Naphthalene <sup>5</sup>                                                                                      | 91-20-3                         | 20 ug/l                                | daily maximum                                            | grab                          |
| 29. Acetone                                                                                                       | 67-64-1-                        | Monitor Only (ug/L)                    | daily maximum                                            | grab                          |
| 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)                                                          |                                 | 10.0 ug/l                              | daily maximum                                            | grab                          |
| a. Benzo(a) Anthracene <sup>7</sup>                                                                               | 56-55-3                         | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| b. Benzo(a) Pyrene <sup>7</sup>                                                                                   | 50-32-8                         | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| c. Benzo(b)Fluoranthene <sup>7</sup>                                                                              | 205-99-2                        | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| d. Benzo(k)Fluoranthene <sup>7</sup>                                                                              | 207-08-9                        | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| e. Chrysene <sup>7</sup>                                                                                          | 218-01                          | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| f. Dibenzo(a,h)anthracene <sup>7</sup>                                                                            | 53-70-3                         | 0.0038 ug/l                            | daily maximum                                            | grab                          |
| g. Indeno(1,2,3-cd) Pyrene <sup>7</sup>                                                                           | 193-39-5                        | 0.0038 ug/l                            | daily maximum                                            | grab                          |

| <b>Category I - Petroleum Related Site Remediation</b>                                                            |                      |                                       |                                           |                    |
|-------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|-------------------------------------------|--------------------|
| <b>Sub-category B - Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges)</b> |                      |                                       |                                           |                    |
| <u>Parameter</u>                                                                                                  | <u>CAS Number(s)</u> | <u>Effluent Limit</u>                 | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)                                                         |                      | 100 ug/l                              | daily maximum                             | grab               |
| h. Acenaphthene                                                                                                   | 83-32-9              | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| i. Acenaphthylene                                                                                                 | 208-96-8             | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| j. Anthracene                                                                                                     | 120-12-7             | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| k. Benzo(ghi) Perylene                                                                                            | 191-24-2             | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| l. Fluoranthene                                                                                                   | 206-44-0             | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| m. Fluorene                                                                                                       | 86-73-7              | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| n. Naphthalene <sup>5</sup>                                                                                       | 91-20-3              | 20 ug/l                               | daily maximum                             | grab               |
| o. Phenanthrene                                                                                                   | 85-01-8              | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |
| p. Pyrene                                                                                                         | 129-00-0             | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |

| Category I - Petroleum Related Site Remediation                                                            |               |                                                                                                                      |           |                                                                                                                      |           |                                    |             |
|------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------|-------------|
| Sub-category B - Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) |               |                                                                                                                      |           |                                                                                                                      |           |                                    |             |
| Metal parameters                                                                                           | CAS Number(s) | Total Recoverable Metal Limit @ H <sup>10</sup> = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) <sup>11</sup> |           | Total Recoverable Metal Limit @ H <sup>10</sup> = 25 mg/l CaCO3 for Discharges in New Hampshire (ug/l) <sup>11</sup> |           | Limit type based on monthly sample | Sample Type |
|                                                                                                            |               | Freshwater                                                                                                           | Saltwater | Freshwater                                                                                                           | Saltwater |                                    |             |
| 42. Chromium III (trivalent)                                                                               | 16065831      | 48.8                                                                                                                 | 100       | 27.7                                                                                                                 | 100       | monthly average                    | grab        |
| 43. Chromium VI (hexavalent)                                                                               | 18540299      | 11.4                                                                                                                 | 50.3      | 11.4                                                                                                                 | 50.3      | monthly average                    | grab        |
| 47. Nickel                                                                                                 | 7440020       | 29                                                                                                                   | 8.2       | 16.1                                                                                                                 | 8.2       | monthly average                    | grab        |
| 50. Zinc                                                                                                   | 7440666       | 66.6                                                                                                                 | 85.6      | 37                                                                                                                   | 85.6      | monthly average                    | grab        |
| 51. Iron                                                                                                   | 7439896       | 1,000                                                                                                                |           | 1,000                                                                                                                |           | daily maximum                      | grab        |

| <b>Category I - Petroleum Related Site Remediation</b>                                                 |                                                 |                                                                |                                           |                    |
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| Sub-category C - Petroleum Sites with Additional Contamination                                         |                                                 |                                                                |                                           |                    |
| <b>Category II - Non Petroleum Site Remediation</b>                                                    |                                                 |                                                                |                                           |                    |
| Sub-category B - VOC Sites with Additional Contamination                                               |                                                 |                                                                |                                           |                    |
| <b>Category III - Contaminated Construction Dewatering</b>                                             |                                                 |                                                                |                                           |                    |
| Sub-category A - General Urban Fill Sites                                                              |                                                 |                                                                |                                           |                    |
| Sub-category B - Known Contaminated Sites                                                              |                                                 |                                                                |                                           |                    |
| <b>Category IV - Miscellaneous Related Discharges</b>                                                  |                                                 |                                                                |                                           |                    |
| Sub-category A - Aquifer Pump Testing to Evaluate Formerly Contaminated Sites                          |                                                 |                                                                |                                           |                    |
| Sub-category B - Well Development/Rehabilitation at Contaminated/Formally Contaminated Sites           |                                                 |                                                                |                                           |                    |
| Sub-category D - Long-Term Remediation of Contaminated Non-residential Sumps and Dikes                 |                                                 |                                                                |                                           |                    |
| Sub-category E - Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) |                                                 |                                                                |                                           |                    |
| <u>Parameter</u>                                                                                       | <u>CAS Number(s)</u>                            | <u>Effluent Limit</u>                                          | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 1. Total Suspended Solids (TSS)                                                                        |                                                 | 30 milligrams/liter (mg/l),<br>50 mg/l for hydrostatic testing | monthly average                           | grab               |
| 2. Total Residual Chlorine (TRC) <sup>1</sup>                                                          |                                                 | Freshwater = 11 ug/l Saltwater = 7.5 ug/l                      | monthly average                           | grab               |
| 3. Total Petroleum Hydrocarbons (TPH)                                                                  |                                                 | 5.0 mg/l                                                       | daily maximum                             | grab               |
| 4. Cyanide (CN) <sup>2,3</sup>                                                                         | 57125                                           | Freshwater = 5.2 ug/l Saltwater = 1.0 ug/l                     | monthly average                           | grab               |
| 5. Benzene (B)                                                                                         | 71432                                           | 50.0 ug/l for hydrostatic testing only                         | daily maximum                             | grab               |
| 6. Toluene (T)                                                                                         | 108883                                          | (limited as ug/L total BTEX)                                   | daily maximum                             | grab               |
| 7. Ethylbenzene (E)                                                                                    | 100-41-4                                        | (limited as ug/L total BTEX)                                   | daily maximum                             | grab               |
| 8. (m,p,o) Xylenes (X)                                                                                 | 108-88-3;<br>106-42-3;<br>95-47-6;<br>1330-20-7 | (limited as ug/L total BTEX)                                   | daily maximum                             | grab               |
| 9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup>                              |                                                 | 100 ug/l                                                       | daily maximum                             | grab               |
| 10. Ethylene Dibromide (EDB) (1,2-Dibromoethane)                                                       | 106-93-4                                        | 0.05 ug/l                                                      | daily maximum                             | grab               |
| 11. Methyl-tert-Butyl Ether (MtBE)                                                                     | 1634-04-4                                       | 70.0 ug/l                                                      | daily maximum                             | grab               |

| <b>Category I - Petroleum Related Site Remediation</b>                                                 |                      |                       |                                           |                    |
|--------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-------------------------------------------|--------------------|
| Sub-category C - Petroleum Sites with Additional Contamination                                         |                      |                       |                                           |                    |
| <b>Category II - Non Petroleum Site Remediation</b>                                                    |                      |                       |                                           |                    |
| Sub-category B - VOC Sites with Additional Contamination                                               |                      |                       |                                           |                    |
| <b>Category III - Contaminated Construction Dewatering</b>                                             |                      |                       |                                           |                    |
| Sub-category A - General Urban Fill Sites                                                              |                      |                       |                                           |                    |
| Sub-category B - Known Contaminated Sites                                                              |                      |                       |                                           |                    |
| <b>Category IV - Miscellaneous Related Discharges</b>                                                  |                      |                       |                                           |                    |
| Sub-category A - Aquifer Pump Testing to Evaluate Formerly Contaminated Sites                          |                      |                       |                                           |                    |
| Sub-category B - Well Development/Rehabilitation at Contaminated/Formally Contaminated Sites           |                      |                       |                                           |                    |
| Sub-category D - Long-Term Remediation of Contaminated Non-residential Sumps and Dikes                 |                      |                       |                                           |                    |
| Sub-category E - Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) |                      |                       |                                           |                    |
| <u>Parameter</u>                                                                                       | <u>CAS Number(s)</u> | <u>Effluent Limit</u> | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 12.tert-Butyl Alcohol (TBA) (TertiaryButanol)                                                          | 75-65-0              | Monitor Only (ug/L)   | daily maximum                             | grab               |
| 13. tert-Amyl Methyl Ether (TAME)                                                                      | 994-05-08            | Monitor Only (ug/L)   | daily maximum                             | grab               |
| 14. Naphthalene <sup>5</sup>                                                                           | 91-20-3              | 20 ug/l               | daily maximum                             | grab               |
| 15. Carbon Tetrachloride                                                                               | 56-23-5              | 4.4 ug/l              | daily maximum                             | grab               |
| 16. 1,2 Dichlorobenzene (o-DCB)                                                                        | 95-50-1              | 600 ug/l              | daily maximum                             | grab               |
| 17. 1,3 Dichlorobenzene (m-DCB)                                                                        | 541-73-1             | 320 ug/l              | daily maximum                             | grab               |
| 18. 1,4 Dichlorobenzene (p-DCB)                                                                        | 106-46-7             | 5.0 ug/l              | daily maximum                             | grab               |
| 18a. Total dichlorobenzene                                                                             |                      | 763 ug/l - NH only    | daily maximum                             | grab               |
| 19. 1,1 Dichloroethane (DCA)                                                                           | 75-34-3              | 70 ug/l               | daily maximum                             | grab               |
| 20. 1,2 Dichloroethane (DCA)                                                                           | 107-06-2             | 5.0 ug/l              | daily maximum                             | grab               |
| 21. 1,1 Dichloroethene (DCE)                                                                           | 75-35-4              | 3.2 ug/l              | daily maximum                             | grab               |
| 22. cis-1,2 Dichloroethene (DCE)                                                                       | 156-59-2             | 70 ug/l               | daily maximum                             | grab               |
| 23. Methylene Chloride                                                                                 | 75-09-2              | 4.6 ug/l              | daily maximum                             | grab               |
| 24. Tetrachloroethene (PCE)                                                                            | 127-18-4             | 5.0 ug/l              | daily maximum                             | grab               |
| 25. 1,1,1 Trichloro-ethane (TCA)                                                                       | 71-55-6              | 200 ug/l              | daily maximum                             | grab               |
| 26. 1,1,2 Trichloro-ethane (TCA)                                                                       | 79-00-5              | 5.0 ug/l              | daily maximum                             | grab               |
| 27. Trichloroethene (TCE)                                                                              | 79-01-6              | 5.0 ug/l              | daily maximum                             | grab               |

| <b>Category I - Petroleum Related Site Remediation</b>                                                 |                      |                       |                                           |                    |
|--------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-------------------------------------------|--------------------|
| Sub-category C - Petroleum Sites with Additional Contamination                                         |                      |                       |                                           |                    |
| <b>Category II - Non Petroleum Site Remediation</b>                                                    |                      |                       |                                           |                    |
| Sub-category B - VOC Sites with Additional Contamination                                               |                      |                       |                                           |                    |
| <b>Category III - Contaminated Construction Dewatering</b>                                             |                      |                       |                                           |                    |
| Sub-category A - General Urban Fill Sites                                                              |                      |                       |                                           |                    |
| Sub-category B - Known Contaminated Sites                                                              |                      |                       |                                           |                    |
| <b>Category IV - Miscellaneous Related Discharges</b>                                                  |                      |                       |                                           |                    |
| Sub-category A - Aquifer Pump Testing to Evaluate Formerly Contaminated Sites                          |                      |                       |                                           |                    |
| Sub-category B - Well Development/Rehabilitation at Contaminated/Formally Contaminated Sites           |                      |                       |                                           |                    |
| Sub-category D - Long-Term Remediation of Contaminated Non-residential Sumps and Dikes                 |                      |                       |                                           |                    |
| Sub-category E - Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) |                      |                       |                                           |                    |
| <u>Parameter</u>                                                                                       | <u>CAS Number(s)</u> | <u>Effluent Limit</u> | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 28. Vinyl Chloride (Chloroethene)                                                                      | 75-01-4              | 2.0 ug/l              | daily maximum                             | grab               |
| 29. Acetone                                                                                            | 67-64-1-             | Monitor Only (ug/L)   | daily maximum                             | grab               |
| 30. 1,4 Dioxane                                                                                        | 123-91-1             | Monitor Only (ug/L)   | daily maximum                             | grab               |
| 31. Total Phenols                                                                                      | 108-95-2             | 300 ug/l              | daily maximum                             | grab               |
| 32. Pentachlorophenol (PCP)                                                                            | 87-86-5              | 1.0 ug/l              | daily maximum                             | grab               |
| 33. Total Phthalates (Phthalate esters) <sup>6</sup>                                                   |                      | 3.0 ug/L              | monthly average                           | grab               |
| 34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]                                           | 117-81-7             | 6.0 ug/l              | daily maximum                             | grab               |
| 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)                                               |                      | 10.0 ug/l             | daily maximum                             | grab               |
| a. Benzo(a) Anthracene <sup>7</sup>                                                                    | 56-55-3              | 0.0038 ug/l           | daily maximum                             | grab               |
| b. Benzo(a) Pyrene <sup>7</sup>                                                                        | 50-32-8              | 0.0038 ug/l           | daily maximum                             | grab               |
| c. Benzo(b)Fluoranthene <sup>7</sup>                                                                   | 205-99-2             | 0.0038 ug/l           | daily maximum                             | grab               |
| d. Benzo(k)Fluoranthene <sup>7</sup>                                                                   | 207-08-9             | 0.0038 ug/l           | daily maximum                             | grab               |
| e. Chrysene <sup>7</sup>                                                                               | 218-01               | 0.0038 ug/l           | daily maximum                             | grab               |
| f. Dibenzo(a,h)anthracene <sup>7</sup>                                                                 | 53-70-3              | 0.0038 ug/l           | daily maximum                             | grab               |
| g. Indeno(1,2,3-cd) Pyrene <sup>7</sup>                                                                | 193-39-5             | 0.0038 ug/l           | daily maximum                             | grab               |

| <b>Category I - Petroleum Related Site Remediation</b>                                                 |                                                                         |                                       |                                           |                    |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|--------------------|
| Sub-category C - Petroleum Sites with Additional Contamination                                         |                                                                         |                                       |                                           |                    |
| <b>Category II - Non Petroleum Site Remediation</b>                                                    |                                                                         |                                       |                                           |                    |
| Sub-category B - VOC Sites with Additional Contamination                                               |                                                                         |                                       |                                           |                    |
| <b>Category III - Contaminated Construction Dewatering</b>                                             |                                                                         |                                       |                                           |                    |
| Sub-category A - General Urban Fill Sites                                                              |                                                                         |                                       |                                           |                    |
| Sub-category B - Known Contaminated Sites                                                              |                                                                         |                                       |                                           |                    |
| <b>Category IV - Miscellaneous Related Discharges</b>                                                  |                                                                         |                                       |                                           |                    |
| Sub-category A - Aquifer Pump Testing to Evaluate Formerly Contaminated Sites                          |                                                                         |                                       |                                           |                    |
| Sub-category B - Well Development/Rehabilitation at Contaminated/Formally Contaminated Sites           |                                                                         |                                       |                                           |                    |
| Sub-category D - Long-Term Remediation of Contaminated Non-residential Sumps and Dikes                 |                                                                         |                                       |                                           |                    |
| Sub-category E - Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) |                                                                         |                                       |                                           |                    |
| <u>Parameter</u>                                                                                       | <u>CAS Number(s)</u>                                                    | <u>Effluent Limit</u>                 | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)                                              |                                                                         | 100 ug/l                              | daily maximum                             | grab               |
| h. Acenaphthene                                                                                        | 83-32-9                                                                 | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| i. Acenaphthylene                                                                                      | 208-96-8                                                                | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| j. Anthracene                                                                                          | 120-12-7                                                                | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| k. Benzo(ghi) Perylene                                                                                 | 191-24-2                                                                | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| l. Fluoranthene                                                                                        | 206-44-0                                                                | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| m. Fluorene                                                                                            | 86-73-7                                                                 | (limited as total ug/L Group II PAHs) | daily maximum                             | grab               |
| n. Naphthalene <sup>5</sup>                                                                            | 91-20-3                                                                 | 20 ug/l                               | daily maximum                             | grab               |
| o. Phenanthrene                                                                                        | 85-01-8                                                                 | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |
| p. Pyrene                                                                                              | 129-00-0                                                                | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |
| 37. Total Polychlorinated Biphenyls (PCBs) <sup>8,9</sup>                                              | 85-68-7;<br>84-74-2;<br>117-84-0;<br>84-66-2;<br>131-11-3;<br>117-81-7. | 0.000064 ug/L                         | daily maximum                             | grab               |
| 38. Chloride                                                                                           | 16887006                                                                | Monitor only                          | daily maximum                             | grab               |

| <b>Category I - Petroleum Related Site Remediation</b>                                                 |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
|--------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------|------------------------|
| Sub-category C - Petroleum Sites with Additional Contamination                                         |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| <b>Category II - Non Petroleum Site Remediation</b>                                                    |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category B - VOC Sites with Additional Contamination                                               |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| <b>Category III - Contaminated Construction Dewatering</b>                                             |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category A - General Urban Fill Sites                                                              |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category B - Known Contaminated Sites                                                              |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| <b>Category IV - Miscellaneous Related Discharges</b>                                                  |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category A - Aquifer Pump Testing to Evaluate Formerly Contaminated Sites                          |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category B - Well Development/Rehabilitation at Contaminated/Formally Contaminated Sites           |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category D - Long-Term Remediation of Contaminated Non-residential Sumps and Dikes                 |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| Sub-category E - Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) |                          |                                                                                                                                                      |                  |                                                                                                                                                      |                  |                                                   |                        |
| <u>Metal parameters</u>                                                                                | <u>CAS<br/>Number(s)</u> | <u>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> = 50<br/>mg/l CaCO<sub>3</sub> for<br/>discharges in<br/>Massachusetts (ug/l)<sup>11</sup></u> |                  | <u>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> =<br/>25 mg/l CaCO<sub>3</sub> for<br/>Discharges in New<br/>Hampshire (ug/l)<sup>11</sup></u> |                  | <u>Limit type<br/>based on<br/>monthly sample</u> | <u>Sample<br/>Type</u> |
|                                                                                                        |                          | <u>Freshwater</u>                                                                                                                                    | <u>Saltwater</u> | <u>Freshwater</u>                                                                                                                                    | <u>Saltwater</u> |                                                   |                        |
| 39. Antimony                                                                                           | 7440360                  | 5.6                                                                                                                                                  |                  | 5.6                                                                                                                                                  |                  | daily maximum                                     | grab                   |
| 40. Arsenic                                                                                            | 7440382                  | 10                                                                                                                                                   | 36               | 10                                                                                                                                                   | 36               | monthly average                                   | grab                   |
| 41. Cadmium                                                                                            | 7440439                  | 0.2                                                                                                                                                  | 8.9              | 0.8                                                                                                                                                  | 9.3              | monthly average                                   | grab                   |
| 42. Chromium III (trivalent)                                                                           | 16065831                 | 48.8                                                                                                                                                 | 100              | 27.7                                                                                                                                                 | 100              | monthly average                                   | grab                   |
| 43. Chromium VI (hexavalent)                                                                           | 18540299                 | 11.4                                                                                                                                                 | 50.3             | 11.4                                                                                                                                                 | 50.3             | monthly average                                   | grab                   |
| 44. Copper                                                                                             | 7440508                  | 5.2                                                                                                                                                  | 3.7              | 2.9                                                                                                                                                  | 3.7              | monthly average                                   | grab                   |
| 45. Lead                                                                                               | 7439921                  | 1.3                                                                                                                                                  | 8.5              | 0.5                                                                                                                                                  | 8.5              | monthly average                                   | grab                   |
| 46. Mercury                                                                                            | 7439976                  | 0.9                                                                                                                                                  | 1.1              | 0.9                                                                                                                                                  | 1.1              | monthly average                                   | grab                   |
| 47. Nickel                                                                                             | 7440020                  | 29                                                                                                                                                   | 8.2              | 16.1                                                                                                                                                 | 8.2              | monthly average                                   | grab                   |
| 48. Selenium                                                                                           | 7782492                  | 5                                                                                                                                                    | 71               | 5                                                                                                                                                    | 71               | monthly average                                   | grab                   |
| 49. Silver                                                                                             | 7440224                  | 1.2                                                                                                                                                  | 2.2              | 0.4                                                                                                                                                  | 2.2              | daily maximum                                     | grab                   |
| 50. Zinc                                                                                               | 7440666                  | 66.6                                                                                                                                                 | 85.6             | 37                                                                                                                                                   | 85.6             | monthly average                                   | grab                   |
| 51. Iron                                                                                               | 7439896                  | 1,000                                                                                                                                                |                  | 1,000                                                                                                                                                |                  | daily maximum                                     | grab                   |

| <b>Category II - Non Petroleum Site Remediation</b>                       |                                 |                              |                                                          |                               |
|---------------------------------------------------------------------------|---------------------------------|------------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category A - Volatile Organic Compound (VOC) Only Sites</b>        |                                 |                              |                                                          |                               |
| <b><u>Parameter</u></b>                                                   | <b><u>CAS<br/>Number(s)</u></b> | <b><u>Effluent Limit</u></b> | <b><u>Limit type<br/>based on<br/>monthly sample</u></b> | <b><u>Sample<br/>Type</u></b> |
| 3. Total Petroleum Hydrocarbons (TPH)                                     |                                 | 5.0 mg/l                     | daily maximum                                            | grab                          |
| 9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup> |                                 | 100 ug/l                     | daily maximum                                            | grab                          |
| 15. Carbon Tetrachloride                                                  | 56-23-5                         | 4.4 ug/l                     | daily maximum                                            | grab                          |
| 16. 1,2 Dichlorobenzene (o-DCB)                                           | 95-50-1                         | 600 ug/l                     | daily maximum                                            | grab                          |
| 17. 1,3 Dichlorobenzene (m-DCB)                                           | 541-73-1                        | 320 ug/l                     | daily maximum                                            | grab                          |
| 18. 1,4 Dichlorobenzene (p-DCB)                                           | 106-46-7                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 18a. Total dichlorobenzene                                                |                                 | 763 ug/l - NH only           | daily maximum                                            | grab                          |
| 19. 1,1 Dichloroethane (DCA)                                              | 75-34-3                         | 70 ug/l                      | daily maximum                                            | grab                          |
| 20. 1,2 Dichloroethane (DCA)                                              | 107-06-2                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 21. 1,1 Dichloroethene (DCE)                                              | 75-35-4                         | 3.2 ug/                      | daily maximum                                            | grab                          |
| 22. cis-1,2 Dichloroethene (DCE)                                          | 156-59-2                        | 70 ug/l                      | daily maximum                                            | grab                          |
| 23. Methylene Chloride                                                    | 75-09-2                         | 4.6 ug/l                     | daily maximum                                            | grab                          |
| 24. Tetrachloroethene (PCE)                                               | 127-18-4                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 25. 1,1,1 Trichloro-ethane (TCA)                                          | 71-55-6                         | 200 ug/l                     | daily maximum                                            | grab                          |
| 26. 1,1,2 Trichloro-ethane (TCA)                                          | 79-00-5                         | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 27. Trichloroethene (TCE)                                                 | 79-01-6                         | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 28. Vinyl Chloride (Chloroethene)                                         | 75-01-4                         | 2.0 ug/l                     | daily maximum                                            | grab                          |
| 29. Acetone                                                               | 67-64-1-                        | Monitor Only (ug/L)          | daily maximum                                            | grab                          |
| 30. 1,4 Dioxane                                                           | 123-91-1                        | Monitor Only (ug/L)          | daily maximum                                            | grab                          |
| 31. Total Phenols                                                         | 108-95-2                        | 300 ug/l                     | daily maximum                                            | grab                          |
| 32. Pentachlorophenol (PCP)                                               | 87-86-5                         | 1.0 ug/l                     | daily maximum                                            | grab                          |
| 33. Total Phthalates (Phthalate esthers) <sup>6</sup>                     |                                 | 3.0 ug/L                     | monthly average                                          | grab                          |
| 34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]              | 117-81-7                        | 6.0 ug/l                     | daily maximum                                            | grab                          |

| Category II - Non Petroleum Site Remediation                |                                                                         |                       |                                           |                    |
|-------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------|-------------------------------------------|--------------------|
| Sub-category A - Volatile Organic Compound (VOC) Only Sites |                                                                         |                       |                                           |                    |
| <u>Parameter</u>                                            | <u>CAS Number(s)</u>                                                    | <u>Effluent Limit</u> | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 37. Total Polychlorinated Biphenyls (PCBs) <sup>8,9</sup>   | 85-68-7;<br>84-74-2;<br>117-84-0;<br>84-66-2;<br>131-11-3;<br>117-81-7. | 0.000064 ug/L         | daily maximum                             | grab               |

| Category II - Non Petroleum Site Remediation                |                      |                                                                                                                           |                  |                                                                                                                           |                  |
|-------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|
| Sub-category A - Volatile Organic Compound (VOC) Only Sites |                      |                                                                                                                           |                  |                                                                                                                           |                  |
| <u>Metal parameters</u>                                     | <u>CAS Number(s)</u> | <u>Total Recoverable Metal Limit @ H<sup>10</sup> = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)<sup>11</sup></u> |                  | <u>Total Recoverable Metal Limit @ H<sup>10</sup> = 25 mg/l CaCO3 for Discharges in New Hampshire (ug/l)<sup>11</sup></u> |                  |
|                                                             |                      | <u>Freshwater</u>                                                                                                         | <u>Saltwater</u> | <u>Freshwater</u>                                                                                                         | <u>Saltwater</u> |
| 51. Iron                                                    | 7439896              | 1,000                                                                                                                     |                  | 1,000                                                                                                                     |                  |
|                                                             |                      |                                                                                                                           |                  |                                                                                                                           |                  |

| Category II - Non Petroleum Site Remediation |                      |                                                             |                                           |                    |
|----------------------------------------------|----------------------|-------------------------------------------------------------|-------------------------------------------|--------------------|
| Sub-category C - Primarily Heavy Metal Sites |                      |                                                             |                                           |                    |
| <u>Parameter</u>                             | <u>CAS Number(s)</u> | <u>Effluent Limit</u>                                       | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| 1. Total Suspended Solids (TSS)              |                      | 30 milligrams/liter (mg/l), 50 mg/l for hydrostatic testing | monthly average                           | grab               |
| 4. Cyanide (CN) <sup>2,3</sup>               | 57125                | Freshwater = 5.2 ug/l Saltwater = 1.0 ug/l                  | monthly average                           | grab               |
| 15. Carbon Tetrachloride                     | 56-23-5              | 4.4 ug/l                                                    | daily maximum                             | grab               |
| 16. 1,2 Dichlorobenzene (o-DCB)              | 95-50-1              | 600 ug/l                                                    | daily maximum                             | grab               |
| 17. 1,3 Dichlorobenzene (m-DCB)              | 541-73-1             | 320 ug/l                                                    | daily maximum                             | grab               |

| <b>Category II - Non Petroleum Site Remediation</b> |                                 |                              |                                                          |                               |
|-----------------------------------------------------|---------------------------------|------------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category C - Primarily Heavy Metal Sites</b> |                                 |                              |                                                          |                               |
| <b><u>Parameter</u></b>                             | <b><u>CAS<br/>Number(s)</u></b> | <b><u>Effluent Limit</u></b> | <b><u>Limit type<br/>based on<br/>monthly sample</u></b> | <b><u>Sample<br/>Type</u></b> |
| 18. 1,4 Dichlorobenzene (p-DCB)                     | 106-46-7                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 18a. Total dichlorobenzene                          | n/a                             | 763 ug/l - NH only           | daily maximum                                            | grab                          |
| 19. 1,1 Dichloroethane (DCA)                        | 75-34-3                         | 70 ug/l                      | daily maximum                                            | grab                          |
| 20. 1,2 Dichloroethane (DCA)                        | 107-06-2                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 21. 1,1 Dichloroethene (DCE)                        | 75-35-4                         | 3.2 ug/l                     | daily maximum                                            | grab                          |
| 22. cis-1,2 Dichloroethene (DCE)                    | 156-59-2                        | 70 ug/l                      | daily maximum                                            | grab                          |
| 23. Methylene Chloride                              | 75-09-2                         | 4.6 ug/l                     | daily maximum                                            | grab                          |
| 24. Tetrachloroethene (PCE)                         | 127-18-4                        | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 25. 1,1,1 Trichloro-ethane (TCA)                    | 71-55-6                         | 200 ug/l                     | daily maximum                                            | grab                          |
| 26. 1,1,2 Trichloro-ethane (TCA)                    | 79-00-5                         | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 27. Trichloroethene (TCE)                           | 79-01-6                         | 5.0 ug/l                     | daily maximum                                            | grab                          |
| 28. Vinyl Chloride (Chloroethene)                   | 75-01-4                         | 2.0 ug/l                     | daily maximum                                            | grab                          |

| <b>Category II - Non Petroleum Site Remediation</b> |                                 |                                                                                                                                                             |                         |                                                                                                                                                             |                         |                                                          |                               |
|-----------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category C - Primarily Heavy Metal Sites</b> |                                 |                                                                                                                                                             |                         |                                                                                                                                                             |                         |                                                          |                               |
| <u><b>Metal parameters</b></u>                      | <u><b>CAS<br/>Number(s)</b></u> | <u><b>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> = 50<br/>mg/l CaCO<sub>3</sub> for<br/>discharges in<br/>Massachusetts (ug/l)<sup>11</sup></b></u> |                         | <u><b>Total Recoverable<br/>Metal Limit @ H<sup>10</sup> =<br/>25 mg/l CaCO<sub>3</sub> for<br/>Discharges in New<br/>Hampshire (ug/l)<sup>11</sup></b></u> |                         | <u><b>Limit type<br/>based on<br/>monthly sample</b></u> | <u><b>Sample<br/>Type</b></u> |
|                                                     |                                 | <u><b>Freshwater</b></u>                                                                                                                                    | <u><b>Saltwater</b></u> | <u><b>Freshwater</b></u>                                                                                                                                    | <u><b>Saltwater</b></u> |                                                          |                               |
| 39. Antimony                                        | 7440360                         | 5.6                                                                                                                                                         |                         | 5.6                                                                                                                                                         |                         | daily maximum                                            | grab                          |
| 40. Arsenic                                         | 7440382                         | 10                                                                                                                                                          | 36                      | 10                                                                                                                                                          | 36                      | monthly average                                          | grab                          |
| 41. Cadmium                                         | 7440439                         | 0.2                                                                                                                                                         | 8.9                     | 0.8                                                                                                                                                         | 9.3                     | monthly average                                          | grab                          |
| 42. Chromium III (trivalent)                        | 16065831                        | 48.8                                                                                                                                                        | 100                     | 27.7                                                                                                                                                        | 100                     | monthly average                                          | grab                          |
| 43. Chromium VI (hexavalent)                        | 18540299                        | 11.4                                                                                                                                                        | 50.3                    | 11.4                                                                                                                                                        | 50.3                    | monthly average                                          | grab                          |
| 44. Copper                                          | 7440508                         | 5.2                                                                                                                                                         | 3.7                     | 2.9                                                                                                                                                         | 3.7                     | monthly average                                          | grab                          |
| 45. Lead                                            | 7439921                         | 1.3                                                                                                                                                         | 8.5                     | 0.5                                                                                                                                                         | 8.5                     | monthly average                                          | grab                          |
| 46. Mercury                                         | 7439976                         | 0.9                                                                                                                                                         | 1.1                     | 0.9                                                                                                                                                         | 1.1                     | monthly average                                          | grab                          |
| 47. Nickel                                          | 7440020                         | 29                                                                                                                                                          | 8.2                     | 16.1                                                                                                                                                        | 8.2                     | monthly average                                          | grab                          |
| 48. Selenium                                        | 7782492                         | 5                                                                                                                                                           | 71                      | 5                                                                                                                                                           | 71                      | monthly average                                          | grab                          |
| 49. Silver                                          | 7440224                         | 1.2                                                                                                                                                         | 2.2                     | 0.4                                                                                                                                                         | 2.2                     | daily maximum                                            | grab                          |
| 50. Zinc                                            | 7440666                         | 66.6                                                                                                                                                        | 85.6                    | 37                                                                                                                                                          | 85.6                    | monthly average                                          | grab                          |
| 51. Iron                                            | 7439896                         | 1,000                                                                                                                                                       |                         | 1,000                                                                                                                                                       |                         | daily maximum                                            | grab                          |

| <b>Category IV - Miscellaneous Related Discharges</b>              |                                 |                                                             |                                                          |                               |
|--------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------|----------------------------------------------------------|-------------------------------|
| <b>Sub-category C - Hydrostatic Testing of Pipelines and Tanks</b> |                                 |                                                             |                                                          |                               |
| <u><b>Parameter</b></u>                                            | <u><b>CAS<br/>Number(s)</b></u> | <u><b>Effluent Limit</b></u>                                | <u><b>Limit type<br/>based on<br/>monthly sample</b></u> | <u><b>Sample<br/>Type</b></u> |
| 1. Total Suspended Solids (TSS)                                    |                                 | 30 milligrams/liter (mg/l), 50 mg/l for hydrostatic testing | monthly average                                          | grab                          |
| 2. Total Residual Chlorine (TRC) <sup>1</sup>                      |                                 | Freshwater = 11 ug/l Saltwater = 7.5 ug/l                   | monthly average                                          | grab                          |
| 3. Total Petroleum Hydrocarbons (TPH)                              |                                 | 5.0 mg/l                                                    | daily maximum                                            | grab                          |

| <b>Category IV - Miscellaneous Related Discharges</b>                     |                      |                                            |                                           |                    |
|---------------------------------------------------------------------------|----------------------|--------------------------------------------|-------------------------------------------|--------------------|
| <b>Sub-category C - Hydrostatic Testing of Pipelines and Tanks</b>        |                      |                                            |                                           |                    |
| <b>Parameter</b>                                                          | <b>CAS Number(s)</b> | <b>Effluent Limit</b>                      | <b>Limit type based on monthly sample</b> | <b>Sample Type</b> |
| 4. Cyanide (CN) <sup>2,3</sup>                                            | 57125                | Freshwater = 5.2 ug/l Saltwater = 1.0 ug/l | monthly average                           | grab               |
| 5. Benzene (B)                                                            | 71432                | 50.0 ug/l for hydrostatic testing only     | daily maximum                             | grab               |
| 9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup> |                      | 100 ug/l                                   | daily maximum                             | grab               |
| 10. Ethylene Dibromide (EDB) (1,2-Dibromoethane)                          | 106-93-4             | 0.05 ug/l                                  | daily maximum                             | grab               |
| 11. Methyl-tert-Butyl Ether (MtBE)                                        | 1634-04-4            | 70.0 ug/l                                  | daily maximum                             | grab               |
| 12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)                           | 75-65-0              | Monitor Only (ug/L)                        | daily maximum                             | grab               |
| 13. tert-Amyl Methyl Ether (TAME)                                         | 994-05-08            | Monitor Only (ug/L)                        | daily maximum                             | grab               |
| 14. Naphthalene <sup>5</sup>                                              | 91-20-3              | 20 ug/l                                    | daily maximum                             | grab               |
| 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)                  |                      | 10.0 ug/l                                  | daily maximum                             | grab               |
| a. Benzo(a) Anthracene <sup>7</sup>                                       | 56-55-3              | 0.0038 ug/l                                | daily maximum                             | grab               |
| b. Benzo(a) Pyrene <sup>7</sup>                                           | 50-32-8              | 0.0038 ug/l                                | daily maximum                             | grab               |
| c. Benzo(b)Fluoranthene <sup>7</sup>                                      | 205-99-2             | 0.0038 ug/l                                | daily maximum                             | grab               |
| d. Benzo(k)Fluoranthene <sup>7</sup>                                      | 207-08-9             | 0.0038 ug/l                                | daily maximum                             | grab               |
| e. Chrysene <sup>7</sup>                                                  | 218-01               | 0.0038 ug/l                                | daily maximum                             | grab               |
| f. Dibenzo(a,h)anthracene <sup>7</sup>                                    | 53-70-3              | 0.0038 ug/l                                | daily maximum                             | grab               |
| g. Indeno(1,2,3-cd) Pyrene <sup>7</sup>                                   | 193-39-5             | 0.0038 ug/l                                | daily maximum                             | grab               |
| 36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)                 |                      | 100 ug/l                                   | daily maximum                             | grab               |
| h. Acenaphthene                                                           | 83-32-9              | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |
| i. Acenaphthylene                                                         | 208-96-8             | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |
| j. Anthracene                                                             | 120-12-7             | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |
| k. Benzo(ghi) Perylene                                                    | 191-24-2             | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |
| l. Fluoranthene                                                           | 206-44-0             | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |
| m. Fluorene                                                               | 86-73-7              | (limited as total ug/L Group II PAHs)      | daily maximum                             | grab               |

| <b>Category IV - Miscellaneous Related Discharges</b>              |                      |                                       |                                           |                    |
|--------------------------------------------------------------------|----------------------|---------------------------------------|-------------------------------------------|--------------------|
| <b>Sub-category C - Hydrostatic Testing of Pipelines and Tanks</b> |                      |                                       |                                           |                    |
| <u>Parameter</u>                                                   | <u>CAS Number(s)</u> | <u>Effluent Limit</u>                 | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
| n. Naphthalene <sup>5</sup>                                        | 91-20-3              | 20 ug/l                               | daily maximum                             | grab               |
| o. Phenanthrene                                                    | 85-01-8              | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |
| p. Pyrene                                                          | 129-00-0             | (limited as ug/L total Group II PAHs) | daily maximum                             | grab               |

| <b>Category IV - Miscellaneous Related Discharges</b>              |                      |                                                                                                                       |                  |                                                                                                                               |                  |                                           |                    |
|--------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------|--------------------|
| <b>Sub-category C - Hydrostatic Testing of Pipelines and Tanks</b> |                      |                                                                                                                       |                  |                                                                                                                               |                  |                                           |                    |
| <u>Metal parameters</u>                                            | <u>CAS Number(s)</u> | <u>Total Recoverable Metal Limit @ H<sup>10</sup> = 50 mg/l CaCO3 for discharges in Mass. (ug/l) <sup>11-12</sup></u> |                  | <u>Total Recoverable Metal Limit @ H<sup>10</sup> = 25 mg/l CaCO3 for Discharges in New Hampshire (ug/l) <sup>11-12</sup></u> |                  | <u>Limit type based on monthly sample</u> | <u>Sample Type</u> |
|                                                                    |                      | <u>Freshwater</u>                                                                                                     | <u>Saltwater</u> | <u>Freshwater</u>                                                                                                             | <u>Saltwater</u> |                                           |                    |
| 42. Chromium III (trivalent)                                       | 16065831             | 48.8                                                                                                                  | 100              | 27.7                                                                                                                          | 100              | monthly average                           | grab               |
| 43. Chromium VI (hexavalent)                                       | 18540299             | 11.4                                                                                                                  | 50.3             | 11.4                                                                                                                          | 50.3             | monthly average                           | grab               |
| 45. Lead                                                           | 7439921              | 1.3                                                                                                                   | 8.5              | 0.5                                                                                                                           | 8.5              | monthly average                           | grab               |
| 47. Nickel                                                         | 7440020              | 29                                                                                                                    | 8.2              | 16.1                                                                                                                          | 8.2              | monthly average                           | grab               |
| 50. Zinc                                                           | 7440666              | 66.6                                                                                                                  | 85.6             | 37                                                                                                                            | 85.6             | monthly average                           | grab               |
| 51. Iron                                                           | 7439896              | 1,000                                                                                                                 |                  | 1,000                                                                                                                         |                  | daily maximum                             | grab               |

#### Footnotes:

<sup>1</sup> Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 20 ug/l).

<sup>2</sup> Limits for cyanide are based on EPA's water quality criteria expressed as micrograms (ug/L) of free cyanide per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

<sup>3</sup> Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

<sup>4</sup> BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

<sup>5</sup> Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

<sup>6</sup> The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

*Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.*

<sup>7</sup> Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

<sup>8</sup> In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as *total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."* *Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.*

<sup>9</sup> Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

<sup>10</sup> Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

<sup>11</sup> For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using  $DF \times 1,000 \text{ ug/L}$  (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =  $1,000 \times 2 = 2,000 \text{ ug/L}$ , etc. not to exceed the DF=5.

<sup>12</sup>

Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).