

**Remediation General Permit
 Appendix IV**

**Chloride & Total Recoverable Metals Limitations (ug/L)
 at Selected Dilution Ranges & Technology-Based Ceiling Limitations for
 Facilities Located in Massachusetts and New Hampshire**

**For Facilities Located in Massachusetts (for discharges to freshwater at Hardness =
 50 mg/L CaCO₃)¹**

| Parameter | Chloride & Total Recoverable Metal Limitations (ug/l) by Dilution Factor Range | | | | | Ceiling Value ² |
|--------------------------------|--|---------|----------|-----------|---------|----------------------------|
| | 1 – 5 ⁶ | >5 - 10 | >10 - 50 | >50 - 100 | >100 | |
| 38. Chloride | Monitor | Monitor | Monitor | Monitor | Monitor | Monitor |
| 39. Antimony | 5.6 | 30 | 60 | 141 | 141 | 141 ³ |
| 40. Arsenic | 10 | 50 | 100 | 500 | 540 | 540 ⁴ |
| 41. Cadmium | 0.2 | 1 | 2 | 10 | 20 | 260 |
| 42. ChromiumIII (Trivalent) | 48.8 | 244 | 489 | 1,710 | 1,710 | 1,710 |
| 43. ChromiumVI (Hexavalent) | 11.4 | 57 | 114 | 570 | 1,140 | 1,710 ⁵ |
| 44. Copper | 5.2 | 26 | 52 | 260 | 520 | 2,070 |
| 45. Lead | 1.3 | 6.5 | 13 | 66 | 132 | 430 |
| 46. Mercury | 0.9 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 ³ |
| 47. Nickel | 29 | 145 | 290 | 1,451 | 2,380 | 2,380 |
| 48. Selenium | 5 | 25 | 50 | 250 | 408 | 408 ³ |
| 49. Silver | 1.2 | 6 | 12 | 57 | 115 | 240 |
| 50. Zinc | 66.6 | 333 | 666 | 1,480 | 1,480 | 1,480 |
| 51. Iron | 1,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |

Footnotes for Massachusetts:

1. Based on 7Q10 Flow.
2. The Ceiling Value for Cadmium, Chromium, Copper, Lead, Nickel, Silver, and Zinc is a Technology Based Value and represents the “Best Available Control Technology” (BAT) for the Metal Finishing Industry, 40 CFR Section 433.14 (monthly average concentration).
3. Based on 40 CFR 437.42, “The Centralized Waste Treatment Point Source Category - Subpart D - Multiple Wastestreams Best Practicable Control Technology” (BPT) daily maximum.
4. Based on 40 CFR 445.11, “RCRA Subtitle C Landfill Best Practicable Control Technology” (BPT) for Arsenic.
5. Assumes Hexavalent Chromium reduced to Tri-valent Chromium in treatment.
6. For a Dilution Factor Range from 1 to 5, metals limits are calculated using DF times the base limit for the metal. For example, iron limits for DF 1-5 are equal to the base limit of 1,000 ug/L times the DF. For example, if DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.

For Facilities Located in New Hampshire (for discharges to freshwater at Hardness = 25 mg/L CaCO₃)¹

| Parameter | Chloride & Total Recoverable Metal Limitations (ug/l) by Dilution Factor Range | | | | | Ceiling Value ² |
|-----------------------------|--|---------|----------|-----------|---------|----------------------------|
| | 1 – 5 ⁶ | >5 - 10 | >10 - 50 | >50 - 100 | >100 | |
| 38. Chloride ⁷ | Monitor | Monitor | Monitor | Monitor | Monitor | Monitor |
| 39. Antimony | 5.6 | 30 | 60 | 141 | 141 | 141 ³ |
| 40. Arsenic | 10 | 50 | 100 | 500 | 540 | 540 ⁴ |
| 41. Cadmium | 0.8 | 4 | 8 | 16 | 32 | 260 |
| 42. ChromiumIII (Trivalent) | 27.7 | 138 | 277 | 1,385 | 1,710 | 1,710 |
| 43. ChromiumVI (Hexavalent) | 11.4 | 57 | 114 | 570 | 1,140 | 1,710 ⁵ |
| 44. Copper | 2.9 | 14.5 | 29 | 142 | 285 | 2,070 |
| 45. Lead | 0.5 | 2.5 | 5 | 27 | 55 | 430 |
| 46. Mercury | 0.9 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 ³ |
| 47. Nickel | 16.1 | 80.5 | 161 | 807 | 1,614 | 2,380 |
| 48. Selenium | 5.0 | 25 | 50 | 250 | 408 | 408 ³ |
| 49. Silver | 0.4 | 2 | 4 | 17 | 35 | 240 |
| 50. Zinc | 37 | 185 | 370 | 1,480 | 1,480 | 1,480 |
| 51. Iron | 1,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |

Footnotes for New Hampshire:

1. Based on 7Q10 Flow.
2. The Ceiling Value for Cadmium, Chromium, Copper, Lead, Nickel, Silver, and Zinc is a Technology Based Value and represents the “Best Available Control Technology” (BAT) for the Metal Finishing Industry, 40 CFR Section 433.14 (monthly average concentration).
3. Based on 40 CFR 437.42, “The Centralized Waste Treatment Point Source Category - Subpart D - Multiple Wastestreams Best Practicable Control Technology” (BPT) daily maximum.
4. Based on 40 CFR 445.11, “RCRA Subtitle C Landfill Best Practicable Control Technology” (BPT) for Arsenic.
5. Assumes Hexavalent Chromium reduced to Tri-valent Chromium in treatment.
6. For a Dilution Factor Range from 1 to 5, metals limits are calculated using DF times the base limit for the metal. For example, iron limits for 1-5 DF are equal to the base limit of 1,000 ug/L times the DF. For example, if DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = 1,000 x 2 = 2,000 ug/L., etc. not to exceed the DF = 5.
7. Subject additional water quality certification requirements by the State of New Hampshire Department of Environmental Services (NHDES).