**New Jersey Department of Environmental Protection**  
Standards for Drinking Water, Ground Water, Surface Water, Soil, and Indoor Air

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GenX (Hexafluoropropylene oxide dimer acid & its ammonium salt) | CAS#: 13252-13-6 & 62037-80-3

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### Drinking Water Quality Standards

**µg/L or ppb**

<table>
<thead>
<tr>
<th>Standard:</th>
<th>Type:</th>
</tr>
</thead>
</table>

### Ground Water Quality Standards

**µg/L or ppb**

<table>
<thead>
<tr>
<th>Standard:</th>
<th>Type:</th>
<th>GW-Quality Criterion:</th>
<th>PQL:</th>
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</thead>
<tbody>
<tr>
<td>0.02</td>
<td>Interim Specific</td>
<td>0.02</td>
<td>0.0075</td>
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</tbody>
</table>

### Surface Water Quality Standards

**µg/L or ppb**

- **Freshwater**
  - Human Health:
    - Aquatic (acute):
    - Aquatic (chronic):
    - Aquatic General:

- **Saline Water**
  - Human Health:
    - Aquatic (acute):
    - Aquatic (chronic):
    - Aquatic General:

### Soil Remediation Standards

**mg/kg**

- **Ingestion-Dermal Exposure Pathway**
  - Residential: 0.23 (Interim)
  - Nonresidential: 3.9 (Interim)

- **Migration to Ground Water Exposure Pathway Soil Remediation Standard**: Area of Concern/Site Specific
- **Soil Leachate Remediation Standard**: 0.40 µg/L

- **Inhalation Exposure Pathway**
  - Residential:
  - Nonresidential:

### Indoor Air Remediation Standards

**µg/m³**

- **Vapor Intrusion Exposure Pathway**
  - Residential:
  - Nonresidential:
Ground Water Standard Footnotes:
a = Asbestos criterion is measured in terms of fibers/liter longer than 10 micrometers (f/L > 10 µm)

Surface Water Standard Footnotes:
(a) Criteria as listed at NJA 7:9B-1.14(f)3 above as formula
(b) Criteria as listed at NJA 7:9B-1.14(f)4 above as formula
(d) Criterion expressed as a function of the Water Effect Ratio (WER). For criterion in the table, WER equates to the default value of 1.0.
(fc) Criteria expressed as free cyanide (as CN)/L
(h) Human health noncarcinogen
(hc) Human health carcinogen
(ol) Organoleptic effect-based criterion with no frequency of exceedance at or above the MA7CD10 flow
(s) Dissolved criterion
(T) Total recoverable criterion
FW1 means those fresh waters, as designated in N.J.A.C. 7:9B-1.15(j), that are to be maintained in their natural state of quality (set aside for posterity) and not subjected to any manmade wastewater discharges or increases in runoff from anthropogenic activities. These waters are set aside for posterity because of their clarity, color, scenic setting, other characteristic of aesthetic value, unique ecological significance, exceptional recreational significance, exceptional water supply significance or exceptional fisheries resource(s).
FW2 means the general surface water classification applied to those fresh waters that are not designated as FW1 or Pinelands Waters.
FW2-TP means FW2 trout production.
FW2-TM means FW2 trout maintenance.
FW2-NF means FW2 non-trout.
PL means Pinelands Waters
SE1 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(d).
SE2 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(e).
SE3 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(f).
SC means the general surface water classification applied to saline coastal waters

Soil Remediation Standards Footnotes:
(1) Not applicable because toxicological information that meets the Site Remediation and Waste Management Program's policy is not available
(2) Not applicable because the calculated health-based criterion exceeds one million mg/kg
(3) Not applicable because the calculated health-based criterion exceeds the soil saturation limit
(4) Not applicable because the calculated health-based soil criterion exceeds the soil saturation limit
(5) Not applicable because ground water remediation standard is a secondary standard
(6) Not applicable because a ground water remediation standard does not exist
(7) Standard is based on natural background
(8) Standard set at reporting limit
(9) Exceeds soil saturation limit; however, health-based criterion based on particulate portion of the equation
(10) Standard based on the Integrated Exposure Uptake Biokinetic (IEUBK) model for lead in children
(11) Standard based on the Adult Lead Model (ALM)
(12) This standard is used for comparison to site soil data that have been converted to sample-specific TCDD-TEQ values through application of the Toxicity Equivalence Factor Methodology (USEPA 2010) and using the WHO 2005 Mammalian Toxic Equivalency Factors (TEFs)
(13) This standard is used for comparison to site soil leachate data that have been converted to sample-specific TCDD-TEQ values through application of the Toxicity Equivalence Factor Methodology (USEPA 2010) and using the WHO 2005 Mammalian Toxic Equivalency Factors (TEFs)
(14) To be calculated using SPLP and the Department's PFAS SPLP Calculator
(15) Not applicable because there currently is no established Ground Water Remediation Standard to calculate soil and soil leachate remediation standards for the migration to ground water exposure pathway. NJDEP recommends delineating to the Laboratory Reporting Limit when investigating GenX in soil for the migration to ground water exposure pathway until a GWRS is established for GenX.
NA: Standard Not Applicable
NR: Chemical Not Regulated

Indoor Air Remediation Standards Footnotes:
(i) Not applicable because toxicological information that meets the Site Remediation and Waste Management's policy is not available
(ii) Standard set at reporting limit
(iii) Value is for elemental mercury
NA: Standard Not Applicable
NR: Chemical Not Regulated
**Indoor air remediation standards are to be used when evaluating the vapor intrusion exposure pathway
**NJDEP - Toxicity Factors for GenX**

*These are the human health toxicity data that were used by the Department to derive its health based criteria.*

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<thead>
<tr>
<th>Media</th>
<th>Carcinogen Group</th>
<th>Oral Slope Factor</th>
<th>Oral Reference Dose</th>
<th>Basis:</th>
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<tbody>
<tr>
<td>Drinking water</td>
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<td>NJDEP</td>
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<tr>
<td>Ground water</td>
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<tr>
<td>Soil</td>
<td>Oral Carcinogen</td>
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<tr>
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*Reference Doses for Group C chemicals are shown with uncertainty factor of 10 for possible carcinogenicity included. These are the Reference Doses used to derive criteria for all media. In the Basis and Background documents for these criteria, these Reference Doses may or may not be shown with this uncertainty factor incorporated.*
1. The Reference Doses for the Group C chemicals incorporate an additional uncertainty factor of 10 for possible carcinogenicity.
2. Toxicity factors were developed by the NJDWQI under the A-280 process for the following chemicals, but MCLs were not adopted for unrelated reasons, such as lack of a standardized analytical method for drinking water: Ethylene glycol, formaldehyde, hexane, methyl ethyl ketone, and 2,4,6-trichlorophenol.
3. The New Jersey MCL for 1,4-Dichlorobenzene was adopted from USEPA, but New Jersey did not necessarily agree with the USEPA RfD, so it is not included on this table.