# VPDES General Permit for Domestic Sewage Discharges of Less Than or Equal to 1,000 GPD

# Monitoring Requirements – 2021 Reissuance

**(Potomac Embayment omitted in flow chart; see pages 10 through 12)**

**Disinfection by other method – E. coli limit**

**Disinfection by chlorine:**

* **7Q10 of receiving stream < 0.2 MGD – TRC limits (after contact tank & final effluent**
* **7Q10 of receiving stream > 0.2 MGD – TRC limit (final effluent)**

**Shellfish receiving water:**

* **No – no Fecal Coliform limit**
* **Yes – Fecal Coliform limit**

**Salt/Transition Zone Water - enterococci limit, but no TRC or E. coli limit**

**Required for all discharges:**

* **Flow**
* **pH**
* **BOD5**
* **TSS**

**Freshwater**

**Receiving Stream 7Q10:**

* **< 0.2 MGD – DO limit**
* **> 0.2 MGD – No DO limit**

**Receiving water – fresh water or salt/transition zone water?**

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow < 0.2 MGD, is a freshwater and is not a shellfish water; and the method of disinfection is chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Dissolved Oxygen** | **5.0 mg/l\*\*** | **NA** | **1/year** | **Grab** |
| **Total Residual Chlorine - After Contact Tank** | **1.0 mg/l** | **NA** | **1/year** | **Grab** |
| **Total Residual Chlorine - Final Effluent** | **NA** | **0.016 mg/l\*\*** | **1/year** | **Grab** |

**\*** The design flow of your treatment facility is less than or equal to 1,000 gallons per day.

\*\* Does not apply when the receiving stream is an ephemeral stream. An ephemeral stream is defined as drainage ways, ditches, hollows, or swales that contain only (i) flowing water during or immediately following periods of rainfall or (ii) water supplied by the discharger. These waterways would normally have no active aquatic community.

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**T**hese monitoring requirements apply when the receiving stream has a 7Q10 flow < 0.2 MGD, is a fresh water and is not a shellfish water; and the method of disinfection is other than chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Dissolved Oxygen** | **5.0 mg/l\*\*** | **NA** | **1/year** | **Grab** |
| **E. coli** | **NA** | **126 CFU/100 ml** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow < 0.2 MGD, is a salt water or transition zone, and is not a shellfish water.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Dissolved Oxygen** | **5.0 mg/l\*\*** | **NA** | **1/year** | **Grab** |
| **enterococci** | **NA** | **35 CFU/100 ml** | **1/year** | **Grab** |

**\*** The design flow of your treatment facility is less than or equal to 1,000 gallons per day.

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow < 0.2 MGD, is a salt water or transition zone, and is a shellfish water.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Dissolved Oxygen** | **5.0 mg/l\*\*** | **NA** | **1/year** | **Grab** |
| **enterococci** | **NA** | **35 CFU/100 ml** | **1/year** | **Grab** |
| **Fecal coliform Bacteria** | **NA** | **200 CFU/100 ml** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow > 0.2 MGD, is a freshwater and is not a shellfish water; and the method of disinfection is chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Residual Chlorine – After Contact Tank** | **1.0 mg/l** | **NA** | **1/year** | **Grab** |
| **Total Residual Chlorine – Final Effluent** | **NA** | **2.0 mg/l** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow > 0.2 MGD, is a fresh water and is not a shellfish water; and the method of disinfection is other than chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **E. coli** | **NA** | **126 CFU/100 ml** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow > 0.2 MGD, is a salt water or transition zone, and is not a shellfish water.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **enterococci** | **NA** | **35 CFU/100 ml** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving stream has a 7Q10 flow > 0.2 MGD, is a salt water or transition zone, and is a shellfish water.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/year** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/year** | **Grab** |
| **BOD5** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **Total Suspended Solids** | **NA** | **30 mg/l** | **1/year** | **Grab** |
| **enterococci** | **NA** | **35 CFU/100 ml** | **1/year** | **Grab** |
| **Fecal coliform Bacteria** | **NA** | **200 CFU/100 ml** | **1/year** | **Grab** |

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## These monitoring requirements apply when the receiving waters are subject to the Policy for the Potomac Embayment (9VAC25-415), is a freshwater, and the method of disinfection is chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/3 months** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/3 months** | **Grab** |
| **cBOD5** | **NA** | **5 mg/l** | **1/3 months** | **Grab** |
| **Total Suspended Solids** | **NA** | **6.0 mg/l** | **1/3 months** | **Grab** |
| **Dissolved Oxygen** | **6.0 mg/l** | **NA** | **1/3 months** | **Grab** |
| **Total Residual Chlorine - After Contact Tank** | **1.0 mg/l** | **NA** | **1/3 months** | **Grab** |
| **Total Residual Chlorine – Final Effluent** | **NA** | **0.016 mg/l** | **1/3 months** | **Grab** |
| **Ammonia as N (Apr 1 – Oct 31)** | **NA** | **1.0 mg/l** | **1/3 months** | **Grab** |
| **Ammonia as N (Nov 1 – Mar 31)** | **NA** | **3.1 mg/l** | **1/3 months** | **Grab** |
| **Total Phosphorus** | **NA** | **0.18 mg/l** | **1/3 months** | **Grab** |

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## These monitoring requirements apply when the receiving waters are subject to the Policy for the Potomac Embayment (9VAC25-415), is a fresh water, and the method of disinfection is other than chlorination.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/3 months** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/3 months** | **Grab** |
| **cBOD5** | **NA** | **5 mg/l** | **1/3 months** | **Grab** |
| **Total Suspended Solids** | **NA** | **6.0 mg/l** | **1/3 months** | **Grab** |
| **Dissolved Oxygen** | **6.0 mg/l** | **NA** | **1/3 months** | **Grab** |
| **E. coli** | **NA** | **126 CFU/100 ml** | **1/3 months** | **Grab** |
| **Ammonia as N (Apr 1 – Oct 31)**  | **NA** | **1.0 mg/l** | **1/3 months** | **Grab** |
| **Ammonia as N (Nov 1 – Mar 31)** | **NA** | **3.1 mg/l** | **1/3 months** | **Grab** |
| **Total Phosphorus** | **NA** | **0.18 mg/l** | **1/3 months** | **Grab** |

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## These monitoring requirements apply when the receiving waters are subject to the Policy for the Potomac Embayment (9VAC25-415), and is a salt water or transition zone.

| **EFFLUENT CHARACTERISTICS** | **DISCHARGE LIMITATIONS** | **MONITORING REQUIREMENTS** |
| --- | --- | --- |
| **Instantaneous Minimum** | **Instantaneous Maximum** | **Frequency** | **Sample Type** |
| **Flow \*** | **NA** | **NL** | **1/3 months** | **Estimate** |
| **pH (Standard Units)** | **6.0** | **9.0** | **1/3 months** | **Grab** |
| **cBOD5** | **NA** | **5 mg/l** | **1/3 months** | **Grab** |
| **Total Suspended Solids** | **NA** | **6.0 mg/l** | **1/3 months** | **Grab** |
| **Dissolved Oxygen** | **6.0 mg/l** | **NA** | **1/3 months** | **Grab** |
| **enterococci** | **NA** | **35 CFU/100 ml** | **1/3 months** | **Grab** |
| **Ammonia as N (Apr 1 – Oct 31)** | **NA** | **1.0 mg/l** | **1/3 months** | **Grab** |
| **Ammonia as N (Nov 1 – Mar 31)** | **NA** | **3.1 mg/l** | **1/3 months** | **Grab** |
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