



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. **VA0024988**
Effective Date: **June 1, 2018**
Expiration Date: **May 31, 2023**

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, Part II – Conditions Applicable To All VPDES Permits, and Part III – Biosolids, as set forth herein.

Owner Name: Upper Occoquan Service Authority
Facility Name: Upper Occoquan Service Authority
County: Fairfax
Facility Location: 14631 Compton Rd, Centreville, VA 20121-2506

The owner is authorized to discharge to the following receiving stream:

Stream Name: Bull Run, UT
River Basin: Potomac
River Subbasin: Potomac
Section: 7a
Class: III
Special Standards: g

A handwritten signature in black ink that reads "Thomas A. Faha".

Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality

May 21, 2018
Date

A. Effluent Limitations and Monitoring Requirements

1. Outfall 001 – 54 MGD Facility

- a. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- b. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN010019, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Dischargers and Nutrient Trading in the Chesapeake Watershed in Virginia.
- c. During the period beginning with the permit’s effective date and lasting until the expiration date or the issuance of the CTO for the 64 MGD facility, whichever occurs first, the permittee is authorized to discharge from Outfall Number 001. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements			
	Monthly Average ⁽¹⁾		Weekly Average ⁽¹⁾		Minimum	Maximum ⁽¹⁾	Frequency ⁽⁵⁾	Sample Type
Flow ⁽²⁾ (MGD)	NL		NA		NA	NL	Continuous	TIRE
pH	NA		NA		6.0 S.U.	9.0 S.U.	1/D	Grab
Chemical Oxygen Demand, COD	10 mg/L	2000 kg/day	25 mg/L	5100 kg/day	NA	NA	5D/W	24H-C
Total Suspended Solids, TSS	1.0 mg/L	200 kg/day	2.5 mg/L	510 kg/day	NA	NA	5D/W	24H-C
Total Kjeldahl Nitrogen, TKN	1.0 mg/L		2.5 mg/L		NA	NA	5D/W	24H-C
Methylene Blue Activated Substances, MBAS	0.10 mg/L		0.25 mg/L		NA	NA	1/6M	24H-C
Dissolved Oxygen	NA		NA		5.0 mg/L	NA	1/D	Grab
Turbidity (immediately prior to Chlorination)	0.50 NTU		NA		NA	NA	5D/W	3G/24H
Total Residual Chlorine (after dechlorination)	0.008 mg/L		0.010 mg/L		NA	NA	1/D	Grab
<i>E. coli</i> (Geometric Mean) ⁽⁴⁾	<2 n/100 mL		NA		NA	NA	5D/W	Grab
Total Phosphorus	0.10 mg/L		0.25 mg/L		NA	NA	5D/W	24H-C
Chronic Toxicity – <i>C. dubia</i> (TU ₀) ⁽³⁾	NA		NA		NA	NL	1/YR	24H-C
Chronic Toxicity – <i>P. promelas</i> (TU ₀) ⁽³⁾	NA		NA		NA	NL	1/YR	24H-C

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| (1) See Part I.B. | MGD = Million gallons per day. | 1/D = Once every day. |
| (2) The design flow is 54 MGD. | NA = Not applicable. | 3G/24H = Three grabs per 24 hr period. |
| (3) See Part 1.C. for toxicity monitoring requirements | NL = No limit; monitor and report. | 5D/W = Five days every week. |
| (4) <i>E. coli</i> samples shall be collected just prior to dechlorination and after chlorine contact. The samples shall be collected in containers prepared with dechlorinating agent. | S.U. = Standard units. | 1/M = Once every month. |
| | TIRE = Totalizing, indicating and recording equipment. | 1/6M = Once every six months. |
| | NTU = Nephelometric Turbidity Units | 1/YR = Once every year. |
| (5) See Part I.E.12 for the Effluent Monitoring Reduction special condition | | |

24H-C = A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of twenty-four (24) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum of twenty-four (24) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by 10% or more during the monitored discharge.

3G/24H = Twenty-four Hour Composite – Consisting of three (3) grab samples collected at 8-hour intervals.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.