

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0024651  
APS ID 1029800  
Authorization ID 1338542

**Applicant and Facility Information**

|                           |   |                  |   |
|---------------------------|---|------------------|---|
| Applicant Name            | <u>Atglen Borough Sewer Authority<br/>Chester County</u>          | Facility Name    | <u>Atglen Borough Municipal<br/>Authority STP</u> |
| Applicant Address         | <u>120 West Main Street P O Box 250<br/>Atglen, PA 19310-0250</u> | Facility Address | <u>120 Main Street<br/>Atglen, PA 19310</u>       |
| Applicant Contact         | <u>Caren Andrews</u>  | Facility Contact | <u>Bryan Umble</u>                                |
| Applicant Phone           | <u>(610) 593-6854</u>   | Facility Phone   | <u>(610) 593-6854</u>                             |
| Client ID                 | <u>75317</u>  | Site ID          | <u>457781</u>                                     |
| Ch 94 Load Status         | <u>Not Overloaded</u>   | Municipality     | <u>Atglen Borough</u>                             |
| Connection Status         | <u>No Limitations</u>   | County           | <u>Chester</u>                                    |
| Date Application Received | <u>December 11, 2020</u>  | EPA Waived?      | <u>No</u>   |
| Date Application Accepted | <u></u>   | If No, Reason    | <u>Chesapeake Bay TMDL – non-significant</u>      |
| Purpose of Application    | <u>Permit Renewal.</u>  |                  |   |

**Summary of Review**

The permittee has submitted a renewal application for NPDES permit to discharge treated sewage from their facility to Valley Creek (TSF, MF) through Outfall 001.

The facility is serving Atglen Borough with population of 1.381 people.  
One industrial user is listed: Irving Textile which contributes sanitary wastewater.

The flow is pumped to fine screen, then goes into 2 SBRs. UV is used as disinfection.

Listed annual ave. flow is 0.155 MGD, hydraulic capacity is 0.202 MGD and organic capacity is 520 lbs/day.

DEP has conducted a site visit on 07/14/2021. No issues in operation of the facility are noted.

On December 29, 2010, the U.S. Environmental Protection Agency established the Chesapeake Bay Total Maximum Daily Load (CB TMDL). The Appendix Q of the CB TMDL lists this facility as a non-significant discharger - Phase 5 sewage facility. According to CB Watershed Implementation Plan revised September 13, 2021: Cap Loads of 7,306 lbs/yr for Total Nitrogen (TN) and 974 lbs/yr for Total Phosphorous loadings are listed for this discharge and they were established as limits in previous permits (see p. 7 of this factsheet - Development of Effluent Limitations).

E.Coli quarterly monitoring for is added for collecting data based on new PA requirements. PA Code § 92a.61 requires IMAX reporting of E. Coli. Per DEP's SOP No. BCW-PMT-033, sewage dischargers with a design flows >= 0.05 and < 1 MGD will include E. Coli monitoring with a frequency of 1/quarter. This parameter has been added to the renewal permit.

Therefore, previously established effluent limits and monitoring requirements are still in effect since there are no changes in effluent characteristics except monitoring for E.Coli. Outfall 001's proposed effluent limits are listed on p. 7.

| Approve | Deny | Signatures   | Date              |
|---------|------|--|-------------------|
| X       |      | <i>Begay Omuralieva</i><br>Begay Omuralieva / Environmental Engineering Specialist | February 17, 2022 |
| X       |      | <i>Pravin Patel</i><br>Pravin C. Patel, P.E. / Environmental Engineer Manager      | 02/18/2022        |

**Summary of Review**

Sludge use and disposal description and location(s): Exeter WWTF & Coatesville WWTF

Act 14 Notifications: Chester County Planning Commission and Atglen Borough were notified with notes dated November 18, 2020.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

| Discharge, Receiving Waters and Water Supply Information |                         |                              |   |
|--|-------------------------|------------------------------|---|
| Outfall No.  | 001                     | Design Flow (MGD)            | .155  |
| Latitude   | 39° 56' 34.32"          | Longitude                    | -75 58' 17.58"  |
| Quad Name  | Parkeburg               | Quad Code                    | 1938  |
| Wastewater Description: Sewage Effluent                  |                         |                              |   |
| Receiving Waters   | Valley Creek (TSF, MF)  | Stream Code                  | 07131   |
| NHD Com ID   | 57465301                | RMI                          | 0.8   |
| Drainage Area  | 10.2                    | Yield (cfs/mi <sup>2</sup> ) | 0.18  |
| Q <sub>7-10</sub> Flow (cfs)                             | 0.9                     | Q <sub>7-10</sub> Basis      | USGS Streamstat                                       |
| Elevation (ft)   | 445                     | Slope (ft/ft)                |   |
| Watershed No.  | 7-K                     | Chapter 93 Class.            | TSF, MF   |
| Existing Use   | TSF, MF                 | Existing Use Qualifier       |   |
| Exceptions to Use  |                         | Exceptions to Criteria       |   |
| Assessment Status  | Impaired                |                              |   |
| Cause(s) of Impairment                                   | SILTATION               |                              |   |
| Source(s) of Impairment                                  | AGRICULTURE             |                              |   |
| TMDL Status  | Tentative/<br>final     | Name                         | Octoraro Creek Watershed TMDL/<br>Chesapeake Bay TMDL |
| Nearest Downstream Public Water Supply Intake            | Chester Water Authority |                              |   |
| PWS Waters   | Octorara Creek          | Flow at Intake (cfs)         |   |
| PWS RMI  |                         | Distance from Outfall (mi)   |   |

Changes Since Last Permit Issuance: no changes

| Treatment Facility Summary                         |                                       |                          |                            |                               |
|--|---------------------------------------|--------------------------|----------------------------|-------------------------------|
| <b>Treatment Facility Name:</b> Atglen Borough STP |                                       |                          |                            |                               |
| <b>WQM Permit No.</b>                              | <b>Issuance Date</b>                  |                          |                            |                               |
| 1512414  | 12/14/2012                            |                          |                            |                               |
| <b>Waste Type</b>                                  | <b>Degree of Treatment</b>            | <b>Process Type</b>      | <b>Disinfection</b>        | <b>Avg Annual Flow (MGD)</b>  |
| Sewage   | Secondary With Ammonia And Phosphorus | Sequencing Batch Reactor | Ultraviolet                | 0.155                         |
| <b>Hydraulic Capacity (MGD)</b>                    | <b>Organic Capacity (lbs/day)</b>     | <b>Load Status</b>       | <b>Biosolids Treatment</b> | <b>Biosolids Use/Disposal</b> |
| 0.202  | 520                                   | Not Overloaded           | Aerobic Digestion          | Other WWTP                    |

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from January 1, 2021 to December 31, 2021)

| Parameter   | DEC-21 | NOV-21 | OCT-21 | SEP-21 | AUG-21 | JUL-21 | JUN-21 | MAY-21 | APR-21 | MAR-21 | FEB-21 | JAN-21 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flow (MGD)<br>Average Monthly                                     | 0.071  | 0.076  | 0.076  | 0.084  | 0.075  | 0.074  | 0.085  | 0.078  | 0.089  | 0.101  | 0.098  | 0.085  |
| Flow (MGD)<br>Daily Maximum                                       | 0.100  | 0.089  | 0.114  | 0.171  | 0.098  | 0.090  | 0.129  | 0.100  | 0.119  | 0.180  | 0.196  | 0.140  |
| pH (S.U.)<br>Instantaneous<br>Minimum                             | 7.6    | 7.6    | 7.8    | 7.9    | 7.8    | 7.7    | 7.4    | 7.5    | 7.6    | 7.3    | 7.3    | 7.4    |
| pH (S.U.)<br>Instantaneous<br>Maximum                             | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.0    | 8.0    | 7.9    | 8.2    |
| DO (mg/L)<br>Instantaneous<br>Minimum                             | 5.8    | 5.5    | 6.0    | 6.1    | 5.6    | 6.2    | 6.7    | 7.5    | 7.5    | 8.1    | 8.0    | 8.5    |
| CBOD5 (lbs/day)<br>Average Monthly                                | 1.7    | 2.37   | 1.77   | 1.82   | 1.9    | 1.73   | 2.1    | 2.69   | 2.1    | 7.3    | 5.31   | 5.55   |
| CBOD5 (lbs/day)<br>Weekly Average                                 | 2.1    | 5.35   | 2.54   | 1.62   | 2.2    | 2.5    | 3.0    | 4.49   | 3.3    | 12.5   | 7.97   | 13.2   |
| CBOD5 (mg/L)<br>Average Monthly                                   | 2.8    | 3.74   | 2.8    | 2.6    | 3.1    | 2.8    | 3.02   | 4.15   | 2.9    | 8.74   | 6.5    | 7.83   |
| CBOD5 (mg/L)<br>Weekly Average                                    | 3.7    | 9.3    | 3.5    | 2.7    | 3.9    | 4.1    | 4.3    | 6.5    | 4.2    | 19.1   | 11.8   | 20     |
| BOD5 (lbs/day)<br>Raw Sewage Influent<br><br/> Average<br>Monthly | 192    | 153    | 157    | 114    | 170    | 110    | 132    | 179    | 174    | 131    | 189    | 114    |
| BOD5 (mg/L)<br>Raw Sewage Influent<br><br/> Average<br>Monthly    | 325    | 242    | 248    | 163    | 271    | 179    | 186    | 275    | 234    | 156    | 231    | 161    |
| TSS (lbs/day)<br>Average Monthly                                  | 3.4    | 7.16   | 3.42   | 3.1    | 4.9    | 3.7    | 6.9    | 5.82   | 4.0    | 19     | 25     | 12.3   |
| TSS (lbs/day)<br>Raw Sewage Influent<br><br/> Average<br>Monthly  | 158    | 127    | 130    | 122    | 96     | 56     | 94     | 130    | 102    | 98     | 130    | 66     |

**NPDES Permit Fact Sheet  
Atglen Borough Municipal Authority STP**

**NPDES Permit No. PA0024651**

|   |      |      |      |      |      |      |      |      |       |      |      |      |
|---|------|------|------|------|------|------|------|------|-------|------|------|------|
| TSS (lbs/day)<br>Weekly Average                               | 5.4  | 21.9 | 6.09 | 4.1  | 6.6  | 5.2  | 20   | 9.73 | 7.6   | 35   | 41   | 26   |
| TSS (mg/L)<br>Average Monthly                                 | 5.7  | 11.3 | 5.4  | 4.4  | 7.88 | 6.0  | 9.72 | 8.95 | 5.4   | 23.3 | 31   | 17.4 |
| TSS (mg/L)<br>Raw Sewage Influent<br><br/> Average<br>Monthly | 267  | 201  | 205  | 174  | 153  | 91   | 133  | 200  | 137   | 116  | 159  | 93   |
| TSS (mg/L)<br>Weekly Average                                  | 8.8  | 38   | 8.4  | 5.6  | 11   | 8.5  | 29   | 14.4 | 9.6   | 51   | 61   | 32   |
| Fecal Coliform<br>(CFU/100 ml)<br>Geometric Mean              | 2.45 | 3.63 | 1.57 | 1.32 | 1.93 | 1.41 | 1.72 | 1.44 | 1     | 3.59 | 3.55 | 1.82 |
| Fecal Coliform<br>(CFU/100 ml)<br>Instantaneous<br>Maximum    | 18   | 627  | 3    | 3    | 9    | 4    | 5    | 4.0  | 1     | 20   | 20   | 11   |
| UV Transmittance (%)<br>Minimum                               | 2.2  | 2.1  | 3.0  | 2.9  | 3.0  | 2.8  | 2.9  | 3.4  | 3.7   | 3.8  | 3.9  | 3.0  |
| Nitrate-Nitrite (mg/L)<br>Average Monthly                     | 2.92 | 3.54 | 3.47 | 5.66 | 4.47 | 5.7  | 5.9  | 4.88 | 5.1   | 7.0  | 5.0  | 5.59 |
| Nitrate-Nitrite (lbs)<br>Total Monthly                        | 54   | 67   | 68   | 119  | 87   | 108  | 125  | 98   | 114   | 183  | 115  | 124  |
| Total Nitrogen (mg/L)<br>Average Monthly                      | 4.05 | 5.69 | 3.79 | 6.38 | 6.3  | 6.6  | 6.9  | 6.5  | 6.53  | 9.5  | 7.5  | 10   |
| Total Nitrogen (lbs)<br>Effluent Net <br/><br>Total Monthly   | 74   | 108  | 74   | 134  | 122  | 126  | 147  | 131  | 145   | 248  | 172  | 220  |
| Total Nitrogen (lbs)<br>Total Monthly                         | 74   | 108  | 74   | 134  | 122  | 126  | 147  | 131  | 145   | 248  | 172  | 220  |
| Total Nitrogen (lbs)<br>Effluent Net <br/><br>Total Annual    |      |      |      | 1876 |      |      |      |      |       |      |      |      |
| Total Nitrogen (lbs)<br>Total Annual                          |      |      |      | 1876 |      |      |      |      |       |      |      |      |
| Ammonia (lbs/day)<br>Average Monthly                          | 0.06 | 0.11 | 0.06 | 0.07 | 0.06 | 0.06 | 0.09 | 0.07 | 0.074 | 0.29 | 0.08 | 0.07 |
| Ammonia (mg/L)<br>Average Monthly                             | 0.1  | 0.18 | 0.1  | 0.1  | 0.1  | 0.1  | 0.12 | 0.1  | 0.1   | 0.34 | 0.1  | 0.1  |
| Ammonia (lbs)<br>Total Monthly                                | 1.86 | 3.42 | 1.96 | 2.1  | 1.94 | 1.9  | 2.55 | 2.02 | 2.27  | 8.88 | 2.29 | 2.20 |
| Ammonia (lbs)<br>Total Annual                                 |      |      |      | 35   |      |      |      |      |       |      |      |      |

**NPDES Permit Fact Sheet  
Atglen Borough Municipal Authority STP**

**NPDES Permit No. PA0024651**

|   |      |      |      |      |      |     |      |      |      |      |      |      |
|---|------|------|------|------|------|-----|------|------|------|------|------|------|
| TKN (mg/L)<br>Average Monthly                                 | 1.13 | 2.15 | 0.7  | 0.72 | 1.83 | 1.0 | 1.1  | 1.62 | 1.43 | 2.57 | 2.5  | 4.46 |
| TKN (lbs)<br>Total Monthly                                    | 21   | 41   | 14   | 15   | 36   | 19  | 23.4 | 33   | 32   | 68   | 56   | 98   |
| Total Phosphorus<br>(lbs/day)<br>Average Monthly              | 1.4  | 1.58 | 2.17 | 2.98 | 2.9  | 3.3 | 2.84 | 2.04 | 1.6  | 1.6  | 1.47 | 1.18 |
| Total Phosphorus<br>(mg/L)<br>Average Monthly                 | 2.43 | 2.5  | 3.42 | 4.26 | 4.6  | 5.3 | 85   | 3.13 | 2.11 | 1.92 | 1.8  | 1.67 |
| Total Phosphorus (lbs)<br>Effluent Net <br/><br>Total Monthly | 43   | 48   | 67   | 90   | 89   | 102 | 85   | 63   | 47   | 50   | 41   | 37   |
| Total Phosphorus (lbs)<br>Total Monthly                       | 43   | 48   | 67   | 90   | 89   | 102 | 85   | 63   | 47   | 50   | 41   | 37   |
| Total Phosphorus (lbs)<br>Effluent Net <br/><br>Total Annual  |      |      |      | 802  |      |     |      |      |      |      |      |      |
| Total Phosphorus (lbs)<br>Total Annual                        |      |      |      | 802  |      |     |      |      |      |      |      |      |

**Compliance History**

**Effluent Violations for Outfall 001, from: February 1, 2021 To: December 31, 2021**

| Parameter | Date     | SBC      | DMR Value | Units | Limit Value | Units |
|-----------|----------|----------|-----------|-------|-------------|-------|
| TSS       | 02/28/21 | Avg Mo   | 31        | mg/L  | 30          | mg/L  |
| TSS       | 02/28/21 | Wkly Avg | 61        | mg/L  | 45          | mg/L  |
| TSS       | 03/31/21 | Wkly Avg | 51        | mg/L  | 45          | mg/L  |

Corrective actions: Increased solids wasting rate (based on submitted non-compliance form)

**Development of Effluent Limitations**

|   |   |
|---|---|
| <b>Outfall No.</b> <u>001</u>                         | <b>Design Flow (MGD)</b> <u>.155</u>    |
| <b>Latitude</b> <u>39° 56' 35.00"</u>                 | <b>Longitude</b> <u>-75° 58' 17.00"</u> |
| <b>Wastewater Description:</b> <u>Sewage Effluent</u> |   |

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

| Pollutant                    | Limit (mg/l)    | SBC             | Federal Regulation | State Regulation |
|------------------------------|-----------------|-----------------|--------------------|------------------|
| CBOD <sub>5</sub>            | 25              | Average Monthly | 133.102(a)(4)(i)   | 92a.47(a)(1)     |
|                              | 40              | Average Weekly  | 133.102(a)(4)(ii)  | 92a.47(a)(2)     |
| Total Suspended Solids       | 30              | Average Monthly | 133.102(b)(1)      | 92a.47(a)(1)     |
|                              | 45              | Average Weekly  | 133.102(b)(2)      | 92a.47(a)(2)     |
| pH                           | 6.0 – 9.0 S.U.  | Min – Max       | 133.102(c)         | 95.2(1)          |
| Fecal Coliform (5/1 – 9/30)  | 200 / 100 ml    | Geo Mean        | -                  | 92a.47(a)(4)     |
| Fecal Coliform (5/1 – 9/30)  | 1,000 / 100 ml  | IMAX            | -                  | 92a.47(a)(4)     |
| Fecal Coliform (10/1 – 4/30) | 2,000 / 100 ml  | Geo Mean        | -                  | 92a.47(a)(5)     |
| Fecal Coliform (10/1 – 4/30) | 10,000 / 100 ml | IMAX            | -                  | 92a.47(a)(5)     |
| Total Residual Chlorine      | 0.5             | Average Monthly | -                  | 92a.48(b)(2)     |

**Water Quality-Based Effluent Limitations**

Octorara Creek Watershed TMDL:

The 2014 Pennsylvania Integrated Water Quality Monitoring and Assessment Report lists this stream in Category 5, impaired streams requiring a TMDL. This facility is listed in Octorara Creek Watershed TMDL tentative Report (March 31, 2013) with following WLA:

| <b>Nitrate Waste load Allocations</b> |  |                           |                                 |
|---------------------------------------|--|---------------------------|---------------------------------|
| <i>Facility name</i>                  | <i>Monthly Ave. Allowable Conc. (mg/l)</i> | <i>Average flow (MGD)</i> | <i>Allowable load (lbs/day)</i> |
| Atglen Borough Sewer Authority        | 26.99                                      | 0.09                      | 20.27                           |
| Bulk Reserve                          |  |                           | 3.91                            |
| Total                                 |  |                           | 24.18                           |

At the time of this renewal, the Octorara TMDL is still in draft stage. Therefore, these values will not be included in the draft permit, which is consistent with how the proposed TMDL was handled previously. A re-opener clause will remain in the NPDES permit to allow DEP to modify the permit to include the WLAs once the TMDL is finalized.

Chesapeake Bay TMDL:

The facility's discharge is in final CB TMDL watershed area and classified as Phase 5 facility. According to CB TMDL Watershed Implementation Plan Phase 5 facilities will remain having Cap Loads for TN of 7,306 and for TP of 974 lb/year after their 2013 expansion (revised on September 13, 2021). EDMR data were evaluated and constant compliance with annual loads is noted below.

| Parameters with CAP Load | 2021 | 2020 | 2019 | 2018 | 2017 |
|--------------------------|------|------|------|------|------|
| TN (7,306) lbs./year     | 1876 | 1868 | 1208 | n/a  | 1009 |
| TP (974) lbs./year       | 802  | 819  | 583  | 645  | n/a  |

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                                  | Effluent Limitations                |                  |                       |                 |                |                  | Monitoring Requirements                      |                      |
|--|-------------------------------------|------------------|-----------------------|-----------------|----------------|------------------|--|----------------------|
|  | Mass Units (lbs/day) <sup>(1)</sup> |                  | Concentrations (mg/L) |                 |                |                  | Minimum <sup>(2)</sup> Measurement Frequency | Required Sample Type |
|  | Average Monthly                     | Weekly Average   | Instantaneous Minimum | Average Monthly | Weekly Average | Instant. Maximum |  |                      |
| Flow (MGD)                                 | Report                              | Report Daily Max | XXX                   | XXX             | XXX            | XXX              | Continuous                                   | Metered              |
| pH (S.U.)                                  | XXX                                 | XXX              | 6.0                   | XXX             | XXX            | 9.0              | 1/day  | Grab                 |
| DO   | XXX                                 | XXX              | 5.0                   | XXX             | XXX            | XXX              | 1/day  | Grab                 |
| CBOD5                                      | 32                                  | 52               | XXX                   | 25              | 40             | 50               | 1/week                                       | 24-Hr Composite      |
| BOD5 Raw Sewage Influent                   | Report                              | XXX              | XXX                   | Report          | XXX            | XXX              | 1/week                                       | 24-Hr Composite      |
| TSS Raw Sewage Influent                    | Report                              | XXX              | XXX                   | Report          | XXX            | XXX              | 1/week                                       | 24-Hr Composite      |
| TSS  | 39                                  | 58               | XXX                   | 30              | 45             | 60               | 1/week                                       | 24-Hr Composite      |
| Fecal Coliform (No./100 ml) Oct 1 - Apr 30 | XXX                                 | XXX              | XXX                   | 2000 Geo Mean   | XXX            | 10000            | 1/week                                       | Grab                 |
| Fecal Coliform (No./100 ml) May 1 - Sep 30 | XXX                                 | XXX              | XXX                   | 200 Geo Mean    | XXX            | 1000             | 1/week                                       | Grab                 |
| E.Coli (No./100 ml)                        | XXX                                 | XXX              | XXX                   | XXX             | XXX            | Report           | 1/quarter                                    | Grab                 |
| UV Transmittance (%)                       | XXX                                 | XXX              | Report                | XXX             | XXX            | XXX              | 1/day  | Recorded             |
| Nitrate-Nitrite                            | XXX                                 | XXX              | XXX                   | Report          | XXX            | XXX              | 1/week                                       | 24-Hr Composite      |
| Nitrate-Nitrite (lbs)                      | Report Total Mo                     | XXX              | XXX                   | XXX             | XXX            | XXX              | 1/month                                      | Calculation          |



Outfall 001 , Continued (from Permit Effective Date through Permit Expiration Date)

| Parameter                              | Effluent Limitations                |                   |                          |                    |                   |                     | Monitoring Requirements                            |                            |
|--|-------------------------------------|-------------------|--------------------------|--------------------|-------------------|---------------------|--|----------------------------|
|  | Mass Units (lbs/day) <sup>(1)</sup> |                   | Concentrations (mg/L)    |                    |                   |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|  | Average<br>Monthly                  | Weekly<br>Average | Instantaneous<br>Minimum | Average<br>Monthly | Weekly<br>Average | Instant.<br>Maximum |  |                            |
| Total Nitrogen                         | XXX                                 | XXX               | XXX                      | Report             | XXX               | XXX                 | 1/month  | Calculation                |
| Total Nitrogen (lbs)<br>Effluent Net   | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/month  | Calculation                |
| Total Nitrogen (lbs)                   | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/month  | Calculation                |
| Ammonia                                | 12.9                                | XXX               | XXX                      | 10.0               | XXX               | 20                  | 1/week   | 24-Hr<br>Composite         |
| Ammonia (lbs)                          | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/week   | Calculation                |
| TKN                                    | XXX                                 | XXX               | XXX                      | Report             | XXX               | XXX                 | 1/week   | 24-Hr<br>Composite         |
| TKN (lbs)                              | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/month  | Calculation                |
| Total Phosphorus                       | Report                              | XXX               | XXX                      | Report             | XXX               | XXX                 | 1/week   | 24-Hr<br>Composite         |
| Total Phosphorus (lbs)<br>Effluent Net | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/month  | Calculation                |
| Total Phosphorus (lbs)                 | Report<br>Total Mo                  | XXX               | XXX                      | XXX                | XXX               | XXX                 | 1/month  | Calculation                |

Compliance Sampling Location: Outfall 001

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, to comply with Pennsylvania's Chesapeake Bay Tributary Strategy.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                              | Effluent Limitations                |                        |                       |                    |         |                     | Monitoring Requirements                            |                            |
|--|-------------------------------------|------------------------|-----------------------|--------------------|---------|---------------------|--|----------------------------|
|  | Mass Units (lbs/day) <sup>(1)</sup> |                        | Concentrations (mg/L) |                    |         |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|  | Monthly                             | Annual                 | Monthly               | Monthly<br>Average | Maximum | Instant.<br>Maximum |  |                            |
| Total Nitrogen (lbs)<br>Effluent Net   | XXX                                 | 7306<br>Total Annual   | XXX                   | XXX                | XXX     | XXX                 | 1/year   | Calculation                |
| Total Nitrogen (lbs)                   | XXX                                 | Report<br>Total Annual | XXX                   | XXX                | XXX     | XXX                 | 1/year   | Calculation                |
| Ammonia (lbs)                          | XXX                                 | Report<br>Total Annual | XXX                   | XXX                | XXX     | XXX                 | 1/year   | Calculation                |
| Total Phosphorus (lbs)                 | XXX                                 | Report<br>Total Annual | XXX                   | XXX                | XXX     | XXX                 | 1/year   | Calculation                |
| Total Phosphorus (lbs)<br>Effluent Net | XXX                                 | 974<br>Total Annual    | XXX                   | XXX                | XXX     | XXX                 | 1/year   | Calculation                |

Compliance Sampling Location: Outfall 001