

**Northwest Regional Office** CLEAN WATER PROGRAM

| Application Type | Renewal   |
|------------------|-----------|
| Facility Type    | Municipal |
| Major / Minor    | Major     |

# NPDES PERMIT FACT SHEET **INDIVIDUAL SEWAGE**

| Application No.  | PA0240150 |
|------------------|-----------|
| APS ID           | 977012    |
| Authorization ID | 1245092   |

### **Applicant and Facility Information**

| Applicant Name                                      | Norwich Township |  | Facility Name                | Norwich Township STP               |  |  |  |
|---|------------------|--|------------------------------|------------------------------------|--|--|--|
| Applicant Address                                   | 3853 W           | /est Valley Road                             | Facility Address             | 3853 West Valley Road              |  |  |  |
|   | Smethp           | oort, PA 16749                               |                              | Smethport, PA 16749                |  |  |  |
| Applicant Contact                                   | James            | Thomas, Chairman                             | Facility Contact             | Paul Black, Operator               |  |  |  |
| Applicant Phone                                     | (814) 8          | 87-2732                                      | Facility Phone               | (814) 887-2040                     |  |  |  |
| Client ID   | 75719            |  | Site ID                      | 686206                             |  |  |  |
| Ch 94 Load Status                                   | Not Overloaded   |  | Municipality                 | Norwich Township                   |  |  |  |
| Connection Status                                   | No Limitations   |  | County                       | McKean County                      |  |  |  |
| Date Application Received September 17, 2018        |                  | EPA Waived?                                  | Yes                          |                                    |  |  |  |
| Date Application Accept                             | oted             | September 18, 2018                           | If No, Reason                |                                    |  |  |  |
| Purpose of Application Accepted Renewal of an NPDES |                  | Renewal of an NPDES Permit<br>municipal STP. | for an existing discharge of | treated sanitary wastewater from a |  |  |  |

### **Summary of Review**

Act 14 - Proof of Notification was submitted and received.

A Part II Water Quality Management permit is not required at this time.

The applicant should be able to meet the limits of this permit, which will continue to protect the uses of the receiving stream.

#### I. OTHER REQUIREMENTS:

- A. Stormwater into sewers
- C. Solids handling

B. Right of way

- D. Effluent Chlorine Optimization and Minimization
- SPECIAL CONDITIONS:
- II. Solids Management

There are no open violations in efacts for Client ID 75719 as of 8/12/2019.

| Approve | Deny | Signatures   | Date |
|---------|------|--|------|
| х       |      | Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist |      |
| Х       |      | Justin C. Dickey, P.E. / Environmental Engineer Manager            |      |

| Discharge, Receivin          | g Watei                 | rs and Water Supply Info | ormation                     |                 |  |  |
|------------------------------|-------------------------|--------------------------|------------------------------|-----------------|--|--|
|                              |                         |                          |                              |                 |  |  |
| Outfall No. 001              |                         |                          | Design Flow (MGD)            | 0.06            |  |  |
| Latitude 41° 4               | Latitude 41º 42' 31.00" |                          | _ Longitude                  | -78º 23' 42.00" |  |  |
| Quad Name                    |                         |                          | _ Quad Code                  |                 |  |  |
| Wastewater Descr             | iption:                 | Sewage Effluent          |                              |                 |  |  |
| Receiving Waters             | Potat                   | o Creek (TSF)            | Stream Code                  | 57625           |  |  |
| NHD Com ID                   | 1123                    | 76261                    | RMI                          | 16.0            |  |  |
| Drainage Area                | 51.7                    |                          | Yield (cfs/mi²)              | 0.084           |  |  |
| Q <sub>7-10</sub> Flow (cfs) | 4.34                    |                          | Q7-10 Basis                  | calculated      |  |  |
| Elevation (ft)               | 1540                    |                          | Slope (ft/ft)                | 0.003788        |  |  |
| Watershed No.                | 16-C                    |                          | Chapter 93 Class.            | TSF             |  |  |
| Existing Use                 | -                       |                          | Existing Use Qualifier       | -               |  |  |
| Exceptions to Use            | -                       |                          | Exceptions to Criteria       |                 |  |  |
| Assessment Status            | 3                       | Attaining Use(s)         |                              |                 |  |  |
| Cause(s) of Impair           | ment                    | -                        |                              |                 |  |  |
| Source(s) of Impai           | rment                   | -                        |                              |                 |  |  |
| TMDL Status                  |                         | -                        | Name                         |                 |  |  |
|                              |                         |                          |                              |                 |  |  |
| Background/Ambie             | ent Data                |                          | Data Source                  |                 |  |  |
| pH (SU)                      |                         | -                        | -                            |                 |  |  |
| Temperature (°F)             |                         | -                        | -                            |                 |  |  |
| Hardness (mg/L)              |                         | -                        | -                            |                 |  |  |
| Other:                       |                         | -                        | -                            |                 |  |  |
| Nearest Downstree            | am Publi                | ic Water Supply Intake   | Ponnsylvania - Now York Stat | to bordor       |  |  |
| PW/S Watare                  |                         | ny River                 | Flow at Intake (cfs)         | Ν/Δ             |  |  |
| PWS RMI                      | N/A                     |                          | Distance from Outfall (mi)   | 30.0            |  |  |
|                              |                         |                          |                              |                 |  |  |

#### 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.

Narrative: This Fact Sheet details the determination of draft NPDES permit limits for an existing discharge of 0.06 MGD of treated sewage from an existing Publicly Owned Treatment Works (POTW) in Norwich Township, McKean County.

Permitted treatment consists of (WQM Permit no. 4208402): A bar screen, two 9,699 gallon aerated flow equalization tanks, a flow splitter box, and two parallel treatment trains each consisting of three 12,931 gallon extended aeration tanks, chemical addition for Phosphorus control, a 7,247 gallon clarifier tank, and a 8,543

gallon aerobic sludge digestion tank. The flow combines for chlorine disinfection with a 4,154 gallon contact tank, and then sodium bisulfate is added, followed by a dechlorination tank and a polishing tank. The two 8,543 gallon aerobic sludge digestion tanks combine into a third 8,543 gallon aerobic sludge digestion tank. The sludge is transferred to two intermittent 1,485 square foot sludge drying beds.

Facility Area: See the topographical map (Attachment 1) and the aerial map (Attachment 2)

Streamflow: 1.

|               | Outfall 001 on the Potato Creek: | Yieldrate:     | <u>0.084</u> | cfsm           | (calculated above) |
|---------------|----------------------------------|----------------|--------------|----------------|--------------------|
|               | Γ                                | Drainage Area: | <u>51.7</u>  | sq. mi.        | (from StreamStats) |
|               | % of stream allocated            | d: <u>100%</u> | Basis:       | <u>No near</u> | by discharges      |
|               |                                  | Q7-10:         | <u>4.34</u>  | cfs            | (calculated)       |
| ow: Outfall 0 | 01                               |                |              |                |                    |

2. Wastefl

> Maximum discharge: 0.06 MGD = 0.09 cfs

Runoff flow period: 24 Basis: Runoff flow for a Municipal STP hours

Flow will be required to be monitored as authorized under Chapter 92a.61, and as recommended in the SOP.

#### 3. Parameters:

The following parameters were evaluated: pH, Total Suspended Solids, Fecal Coliform, Phosphorus, NH<sub>3</sub>-N, CBOD<sub>5</sub>, Dissolved Oxygen, and Total Residual Chlorine. NH<sub>3</sub>-N, CBOD<sub>5</sub>, and Dissolved Oxygen were evaluated using WQM 7.0 at the discharge point.

NO<sub>2</sub>-NO<sub>3</sub>, Fluoride, Phenolics, Sulfates, and Chlorides can be evaluated using PentoxSD at the nearest downstream potable water supply (PWS). Since there is significant dilution available, no modeling was performed for this facility.

a. pН

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 93.7 technology-based limits

#### b. **Total Suspended Solids**

Limits are 30 mg/l as a monthly average and 60 as a daily maximum.

Basis: Application of Chapter 92a47 technology-based limits

#### Fecal Coliform c.

| 05/01 - 09/30: | <u>200/100ml</u>                          | (monthly average geometric mean)                            |
|----------------|---|---|
|                | <u>1,000/100ml</u>                        | (instantaneous maximum)                                     |
| 10/01 - 04/30: | <u>2,000/100ml</u><br><u>10,000/100ml</u> | (monthly average geometric mean)<br>(instantaneous maximum) |
| Basis:         | Application of                            | Chapter 92a47 technology-based limits.                      |

- d. Phosphorus
  - $\square$ Limit not necessary

Quarterly monitoring for Total Phosphorus and Total Nitrogen will be retained from the previous renewal.

- Limit necessary due to:
  - Discharge to a lake, pond, or impoundment
  - Discharge to a stream
  - Basis: <u>N/A</u>

#### e. <u>NO<sub>2</sub>-NO<sub>3</sub>, Fluoride, Phenolics, Sulfates, and Chlorides</u>

Nearest Downstream potable water supply (PWS): Pennsylvania - New York State border

Distance downstream from the point of discharge: <u>30.0</u> miles (approximate)

No limits necessary for Fluoride, Phenolics, TDS, Sulfate, and Chloride

Basis: Significant dilution available.

#### f. <u>Ammonia-Nitrogen (NH<sub>3</sub>-N)</u>

| Median discharge pH to be used:              | <u>7.3</u>          | Standard Units (S.U.)                                  |  |  |  |
|--|---------------------|--|--|--|--|
|  | В                   | Basis: Average pH value from DMR summary               |  |  |  |
| Discharge temperature:                       | <u>25°C</u>         | (default value used in the absence of data)            |  |  |  |
| Median stream pH to be used:                 | <u>7.0</u>          | Standard Units (S.U.)                                  |  |  |  |
|  | В                   | Basis: (default value used in the absence of data)     |  |  |  |
| Stream Temperature:                          | <u>25°C</u>         | (default value used for TSF modeling)                  |  |  |  |
| Background NH <sub>3</sub> -N concentration: | <u>0.1</u>          | mg/l   |  |  |  |
|  | В                   | Basis: Default value.                                  |  |  |  |
| calculated summer NH <sub>3</sub> -N limits: | <u>25.0</u><br>50.0 | mg/l (monthly average)<br>mg/l (instantaneous maximum) |  |  |  |
| calculated winter NH <sub>3</sub> -N limits: | <u>25.0</u><br>50.0 | mg/l (monthly average)<br>mg/l (instantaneous maximum) |  |  |  |

Result: <u>WQ modeling resulted in the above summer limits (see Attachment 3). Since the summer limits are technology-based, the winter limits will also be technology-based. Based on the SOP, since this is an existing discharge and the NH3-N limits are technology-based, yearly monitoring will be set.</u>

g. <u>CBOD</u><sub>5</sub>

| Median discharge pH to be used: | <u>7.3</u>  | Standard Units (S.U.)                       |  |  |  |  |  |
|---------------------------------|-------------|---|--|--|--|--|--|
|                                 | В           | asis: Average pH value from DMR summary     |  |  |  |  |  |
| Discharge temperature:          | <u>25°C</u> | (default value used in the absence of data) |  |  |  |  |  |
| Median stream pH to be used:    | <u>7.0</u>  | Standard Units (S.U.)                       |  |  |  |  |  |

|   | В                   | asis: (default value used in the absence of data)      |
|---|---------------------|--|
| Stream Temperature:                         | <u>25°C</u>         | (default value used for TSF modeling)                  |
| Background CBOD5 concentration:             | <u>2.0</u>          | mg/l   |
|   | В                   | asis: Default value                                    |
| calculated summer CBOD <sub>5</sub> limits: | <u>25.0</u><br>50.0 | mg/l (monthly average)<br>mg/l (instantaneous maximum) |
| calculated winter CBOD <sub>5</sub> limits: | <u>25.0</u><br>50.0 | mg/l (monthly average)<br>mg/l (instantaneous maximum) |

Result: <u>WQ modeling resulted in the above summer limits (see Attachment 3), which are the same as the previous NPDES Permit and will be retained. Since the summer limits are technology-based, the winter limits will also be technology-based.</u>

### h. <u>Dissolved Oxygen (DO)</u>

- $\boxed{100}$   $\underline{4.0}$  mg/l minimum desired in effluent to protect all aquatic life.
- $\Box$  <u>5.0</u> mg/l desired in effluent for CWF, WWF, or TSF.
- 6.0 mg/l minimum required due to discharge going to a drainage swale or ditch.
- <u>7.0</u> mg/l minimum desired due to discharge going to a High Quality stream.
- 8.0 mg/l required due to discharge going to a naturally reproducing salmonid stream
  - Discussion: The Dissolved Oxygen technology-based minimum of 4.0 mg/l will be retained as recommended by the WQ Model (see Attachment 3) and the SOP based on Chapter 93.7, under the authority of Chapter 92a.61. The measurement frequency was increased from 2/month to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001).

## i. <u>Total Residual Chlorine (TRC)</u>

- No limit necessary
- $\square$  TRC limits: 0.5 mg/l (monthly average)
  - 1.6 mg/l (instantaneous maximum)
  - Basis: <u>The technology-based TRC limits above were calculated using the Department's TRC</u> <u>Calculation Spreadsheet (see Attachment 4). The instantaneous maximum limit was</u> <u>previously set as 1.2 mg/l. Since the Permittee is meeting the more restrictive limit, it will be</u> <u>retained to comply with antibacksliding requirements.</u>
- j. Influent Total Suspended Solids and BOD5

These two parameters will be monitored as recommended in the SOP for POTWs, as authorized under Chapter 92a.61.

k. Anti-Backsliding

Since all the permit limits in this renewal are the same or more restrictive than the previous NPDES Permit, anti-backsliding is not applicable.

4. Reasonable Potential Analysis:

A Reasonable Potential Analysis was performed in accordance with State practices for Outfall 001 by first using the Toxics Screening Analysis Spreadsheet (see Attachment 5) to determine which parameters should be modeled using the PentoxSD program. The following parameters will be evaluated for Outfall 001:

Total Copper, Total Lead, and Total Zinc.

| Median stream pH to be used:                                      | <u>7.0</u>        | Standard Units (S.U.)                   |
|---|-------------------|---|
| Stream hardness to be used:                                       | <u>100</u>        | mg/l                                    |
|   | Basis:            | PentoxSD defaults                       |
| Median discharge pH to be used:<br>Discharge hardness to be used: | <u>7.3</u><br>100 | Standard Units (S.U.)<br>mg/l           |
|   | Basis:            | eDMR data and NPDES Permit Renewal data |

Result: No modeling was required for the parameters above.

- 5. Attachment List:
  - Attachment 1 Topographical Map of the Facility Area
  - Attachment 2 Aerial Map of the STP
  - Attachment 3 WQ Modeling Printouts
  - Attachment 4 TRC\_Calc
  - Attachment 5 Toxics Screening Analysis Spreadsheet

If viewing this electronically, please refer to the following PDF to view the above Attachments:



### **Compliance History**

DMR Data for Outfall 001 (from July 1, 2018 to June 30, 2019)

| Parameter                   | JUN-19 | MAY-19 | APR-19 | MAR-19   | FEB-19 | JAN-19 | DEC-18 | NOV-18 | OCT-18 | SEP-18 | AUG-18 | JUL-18 |
|-----------------------------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flow (MGD)                  |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | 0.0209 | 0.021  | 0.0212 | 0.0196   | 0.0234 | 0.0222 | 0.0215 | 0.0245 | 0.019  | 0.0218 | 0.0168 | 0.018  |
| Flow (MGD)                  |        |        |        |          |        |        |        |        |        |        |        |        |
| Weekly Average              | 0.0277 | 0.0274 | 0.0265 | 0.0244   | 0.033  | 0.0265 | 0.0235 | 0.0326 | 0.0311 | 0.0268 | 0.0199 | 0.0233 |
| pH (S.U.)                   |        |        |        |          |        |        |        |        |        |        |        |        |
| Minimum                     | 7.1    | 7.2    | 7.1    | 7.1      | 7.3    | 7.2    | 6.8    | 7.0    | 7.1    | 7.0    | 6.8    | 7.0    |
| pH (S.U.)                   |        |        |        |          |        |        |        |        |        |        |        |        |
| Maximum                     | 7.9    | 7.6    | 7.5    | 7.9      | 7.9    | 7.6    | 7.6    | 7.8    | 7.7    | 7.6    | 7.5    | 7.5    |
| DO (mg/L)                   |        |        |        |          |        |        |        |        |        |        |        |        |
| Minimum                     | 4.9    | 7.4    | 8.0    | 8.1      | 8.2    | 8.1    | 8.1    | 8.0    | 8.0    | 8.1    | 8.0    | 8.0    |
| TRC (mg/L)                  |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | 0.04   | 0.03   | 0.03   | 0.04     | 0.04   | 0.04   | 0.04   | 0.03   | 0.04   | 0.04   | 0.04   | 0.1    |
| TRC (mg/L)                  |        |        |        |          |        |        |        |        |        |        |        |        |
| Instantaneous Maximum       | 0.08   | 0.06   | 0.07   | 0.09     | 0.07   | 0.09   | 0.1    | 0.07   | 0.08   | 0.08   | 0.09   | 0.1    |
| CBOD5 (lbs/day)             |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | < 0.8  | 6      | < 2    | < 0.07   | < 4    | < 2    | 0.7    | < 0.7  | < 0.8  | 1      | < 1    | < 2    |
| CBOD5 (lbs/day)             |        |        |        |          |        |        |        |        |        |        |        |        |
| Weekly Average              | 1      | 12     | 3      | 0.08     | 8      | 2      | 1      | 1      | 1      | 3      | 2      | 4      |
| CBOD5 (mg/L)                |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | < 8    | 39     | < 13   | < 4      | < 19   | < 9    | 5      | < 4    | < 10   | 8      | < 7    | < 12   |
| CBOD5 (mg/L)                |        |        |        |          |        |        |        |        |        |        |        |        |
| Weekly Average              | 12     | 68     | 21     | < 5      | 35     | 14     | 37     | 7      | 16     | 17     | 13     | 28     |
| BOD5 (mg/L)                 |        |        |        |          |        |        |        |        |        |        |        |        |
| Raw Sewage Influent         |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | 167    | 174    | 129    | 146      | 144    | 155    | 185    | 182    | 132    | 103    | 129    | 184    |
| TSS (lbs/day)               |        |        |        |          |        |        |        |        |        |        |        |        |
| Average Monthly             | 1      | 0.8    | 0.8    | 1        | 0.6    | 1      | 1      | 1      | 0.6    | 1      | 2      | 2      |
| TSS (lbs/day)               |        |        |        |          |        |        |        | -      |        |        |        |        |
| Weekly Average              | 1      | 2      | 1      | 2        | 0.8    | 1      | 4      | 2      | 1      | 1      | 6      | 2      |
| ISS (mg/L)                  | 10     | _      |        |          |        |        | 10     |        |        |        |        |        |
| Average Monthly             | 10     | 5      | 6      | 6        | 4      | 6      | 13     | 6      | 6      | 8      | 11     | 11     |
| TSS (mg/L)                  |        |        |        |          |        |        |        |        |        |        |        |        |
| Raw Sewage Influent         | 110    | 0.1    |        | 75       | 00     | 400    | 400    |        |        |        |        | 00     |
|                             | 112    | 94     | 99     | 75       | 93     | 123    | 126    | 93     | 98     | 81     | 11     | 99     |
| 155 (mg/L)                  | 4.4    | 10     | 0      | <u> </u> | 4      | 0      | 27     | 10     | 0      | •      | 20     | 4.4    |
|                             | 14     | 10     | Ŏ      | 9        | 4      | Ŏ      | 31     | 10     | ð      | 9      | ∠0     | 14     |
| Fecal Collform (CFU/100 ml) | . 0    | . 1    | . 0    | . 0      | . 0    | . 4    |        |        | . 2    |        | . 1    | . 4    |
| Geometric Mean              | < 9    | < 4    | < 2    | <2       | < 3    | < 4    | < 3    | > 3    | < 3    | < 3    | < 4    | < 4    |

### NPDES Permit Fact Sheet Norwich Township STP

| Fecal Coliform (CFU/100 ml) |       |     |     |        |     |     |       |     |     |       |     |     |
|-----------------------------|-------|-----|-----|--------|-----|-----|-------|-----|-----|-------|-----|-----|
| Instantaneous Maximum       | 39.2  | < 4 | < 4 | < 4    | < 4 | < 4 | < 4   | > 4 | < 4 | < 4   | < 4 | < 4 |
| Total Nitrogen (mg/L)       |       |     |     |        |     |     |       |     |     |       |     |     |
| Average Monthly             | < 1.0 |     |     | 0.3796 |     |     | 15.43 |     |     | 36.33 |     |     |
| Total Phosphorus (mg/L)     |       |     |     |        |     |     |       |     |     |       |     |     |
| Average Monthly             | 0.025 |     |     | 1.5    |     |     | 1.96  |     |     | 0.855 |     |     |

#### **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.

|   |                    | Monitoring Requirements |                 |                     |                        |                     |                          |                    |
|---|--------------------|-------------------------|-----------------|---------------------|------------------------|---------------------|--------------------------|--------------------|
| Baramatar                                     | Mass Units         | (lbs/day) (1)           |                 | Concentrat          | Minimum <sup>(2)</sup> | Required            |                          |                    |
| Farameter                                     | Average<br>Monthly | Weekly<br>Average       | Minimum         | Average<br>Monthly  | Weekly<br>Average      | Instant.<br>Maximum | Measurement<br>Frequency | Sample<br>Type     |
| Flow (MGD)                                    | Report             | Report                  | XXX             | XXX                 | XXX                    | ХХХ                 | 1/week                   | Measured           |
| pH (S.U.)                                     | XXX                | XXX                     | 6.0<br>Inst Min | XXX                 | XXX                    | 9.0                 | 1/day                    | Grab               |
| DO  | XXX                | XXX                     | 4.0<br>Inst Min | XXX                 | XXX                    | ХХХ                 | 1/day                    | Grab               |
| TRC   | XXX                | ххх                     | ххх             | 0.5                 | XXX                    | 1.2                 | 1/day                    | Grab               |
| CBOD5   | 12.5               | 20.0                    | XXX             | 25.0                | 40.0                   | 50                  | 2/month                  | 24-Hr<br>Composite |
| BOD5<br>Raw Sewage Influent                   | XXX                | XXX                     | xxx             | Report              | XXX                    | XXX                 | 2/month                  | 24-Hr<br>Composite |
| TSS   | 15.0               | 22.5                    | xxx             | 30.0                | 45.0                   | 60                  | 2/month                  | 24-Hr<br>Composite |
| TSS<br>Raw Sewage Influent                    | XXX                | ххх                     | XXX             | Report              | XXX                    | ххх                 | 2/month                  | 24-Hr<br>Composite |
| Fecal Coliform (No./100 ml)<br>Oct 1 - Apr 30 | XXX                | xxx                     | XXX             | 2000<br>Geo Mean    | XXX                    | 10000               | 2/month                  | Grab               |
| Fecal Coliform (No./100 ml)<br>May 1 - Sep 30 | XXX                | ххх                     | XXX             | 200<br>Geo Mean     | XXX                    | 1000                | 2/month                  | Grab               |
| Total Nitrogen                                | XXX                | ххх                     | xxx             | Report<br>Avg Qrtly | XXX                    | ххх                 | 1/quarter                | 24-Hr<br>Composite |
| Ammonia-Nitrogen                              | XXX                | ххх                     | XXX             | Report              | XXX                    | ххх                 | 2/month                  | 24-Hr<br>Composite |
| Total Phosphorus                              | XXX                | ххх                     | xxx             | Report<br>Avg Qrtly | XXX                    | ххх                 | 1/quarter                | 24-Hr<br>Composite |

Compliance Sampling Location: at Outfall 001, after disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH and Dissolved Oxygen are technology-based on Chapter 93.7. The limits for Total Residual Chlorine (TRC) are technology based on Chapter 92a.48. The limits for CBOD<sub>5</sub>, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47. Monitoring for influent BOD5 and TSS is based on Chapter 92a.61. Monitoring for Ammonia-Nitrogen, Total Nitrogen, and Total Phosphorus is based on Chapter 92a.61.