

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. PA0232785  
APS ID 1060263  
Authorization ID 1390855

**Applicant and Facility Information**

|                           |  |                  |  |
|---------------------------|--|------------------|--|
| Applicant Name            | <u>Cargill Inc.</u>  | Facility Name    | <u>Cargill Feed &amp; Nutrition</u>                    |
| Applicant Address         | <u>70 Agway Lane</u><br><u>Winfield, PA 17889-9131</u>   | Facility Address | <u>70 Agway Lane</u><br><u>Winfield, PA 17889-9131</u> |
| Applicant Contact         | <u>Ryan Scow</u>   | Facility Contact | <u>Ryan Scow</u>                                       |
| Applicant Phone           | <u>(570) 524-4777</u>  | Facility Phone   | <u>(570) 524-4777</u>                                  |
| Client ID                 | <u>274866</u>  | Site ID          | <u>815964</u>  |
| SIC Code                  | <u>2048</u>  | Municipality     | <u>Union Township</u>                                  |
| SIC Description           | <u>Manufacturing - Prepared Feeds, NEC</u>   | County           | <u>Union</u>   |
| Date Application Received | <u>April 4, 2022</u>   | EPA Waived?      | <u>Yes</u>   |
| Date Application Accepted | <u>April 12, 2022</u>  | If No, Reason    | <u></u>  |
| Purpose of Application    | <u>Renewal of an existing NPDES permit for the discharge of industrial waste and storm waters.</u> |                  |  |

**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.

| Approve | Deny | Signatures   | Date              |
|---------|------|--|-------------------|
| X       |      | <i>Derek S. Garner</i><br>Derek S. Garner / Project Manager                                  | February 9, 2023  |
| X       |      | <i>Nicholas W. Hartranft</i><br>Nicholas W. Hartranft, P.E. / Environmental Engineer Manager | February 21, 2023 |

**Discharge, Receiving Waters and Water Supply Information**

|   |                                    |                              |                                |
|---|------------------------------------|------------------------------|--------------------------------|
| <b>Outfall No.</b>  | <u>001</u>                         | Design Flow (MGD)            | <u>n/a</u>                     |
| Latitude  | <u>40° 54' 27.45"</u>              | Longitude                    | <u>-76° 51' 19.11"</u>         |
| Quad Name   | <u>Northumberland</u>              | Quad Code                    | <u>11131</u>                   |
| Wastewater Description: <u>Boiler blowdown, reverse osmosis concentrate, stormwater</u> |                                    |                              |                                |
| Receiving Waters  | <u>UNT to Winfield Creek</u>       | Stream Code                  | <u>18679</u>                   |
| NHD Com ID  | <u>66921219</u>                    | RMI                          | <u>0.0900</u>                  |
| Drainage Area   | <u>1.59</u>                        | Yield (cfs/mi <sup>2</sup> ) | <u>0.223</u>                   |
| Q <sub>7-10</sub> Flow (cfs)  | <u>0.355</u>                       | Q <sub>7-10</sub> Basis      | <u>Streamgage No. 01553130</u> |
| Elevation (ft)  | <u>460</u>                         | Slope (ft/ft)                | <u>n/a</u>                     |
| Watershed No.   | <u>10-C</u>                        | Chapter 93 Class.            | <u>WWF, MF</u>                 |
| Existing Use  | <u>n/a</u>                         | Existing Use Qualifier       | <u>n/a</u>                     |
| Exceptions to Use   | <u>n/a</u>                         | Exceptions to Criteria       | <u>n/a</u>                     |
| Assessment Status   | <u>Impaired</u>                    |                              |                                |
| Cause(s) of Impairment  | <u>Pathogens</u>                   |                              |                                |
| Source(s) of Impairment   | <u>Unknown</u>                     |                              |                                |
| TMDL Status   | <u>n/a</u>                         | Name                         | <u>n/a</u>                     |
| Nearest Downstream Public Water Supply Intake   | <u>Sunbury Municipal Authority</u> |                              |                                |
| PWS Waters  | <u>Susquehanna River</u>           | Flow at Intake (cfs)         | <u>1,830</u>                   |
| PWS RMI   | <u>124.14</u>                      | Distance from Outfall (mi)   | <u>5.98</u>                    |

**NPDES Permit Fact Sheet**  
**Cargill Feed & Nutrition**

**NPDES Permit No. PA0232785**

|                         |                       |   |                        |
|-------------------------|-----------------------|---|------------------------|
| <b>IMP No.</b>          | <u>101</u>            | Design Flow (MGD)                                   | <u>0.006798</u>        |
| Latitude                | <u>40° 54' 28.22"</u> | Longitude   | <u>-76° 51' 15.21"</u> |
| Quad Name               | <u>Northumberland</u> | Quad Code   | <u>11131</u>           |
| Wastewater Description: |                       | <u>Boiler blowdown, reverse osmosis concentrate</u> |                        |

|                              |                                |                              |                                |
|------------------------------|--------------------------------|------------------------------|--------------------------------|
| Receiving Waters             | <u>UNT to Winfield Creek</u>   | Stream Code                  | <u>18679</u>                   |
| NHD Com ID                   | <u>66921219</u>                | RMI                          | <u>0.09</u>                    |
| Drainage Area                | <u>1.59</u>                    | Yield (cfs/mi <sup>2</sup> ) | <u>0.223</u>                   |
| Q <sub>7-10</sub> Flow (cfs) | <u>0.355</u>                   | Q <sub>7-10</sub> Basis      | <u>Streamgage No. 01553130</u> |
| Elevation (ft)               | <u>n/a</u>                     | Slope (ft/ft)                | <u>n/a</u>                     |
| Watershed No.                | <u>10-C</u>                    | Chapter 93 Class.            | <u>WWF, MF</u>                 |
| Existing Use                 | <u>n/a</u>                     | Existing Use Qualifier       | <u>n/a</u>                     |
| Exceptions to Use            | <u>n/a</u>                     | Exceptions to Criteria       | <u>n/a</u>                     |
| Assessment Status            | <u>Impaired <sup>(1)</sup></u> |                              |                                |
| Cause(s) of Impairment       | <u>Pathogens</u>               |                              |                                |
| Source(s) of Impairment      | <u>Unknown</u>                 |                              |                                |
| TMDL Status                  | <u>n/a</u>                     | Name                         | <u>n/a</u>                     |

|   |                                    |                            |              |
|---|------------------------------------|----------------------------|--------------|
| Nearest Downstream Public Water Supply Intake | <u>Sunbury Municipal Authority</u> |                            |              |
| PWS Waters                                    | <u>Susquehanna River</u>           | Flow at Intake (cfs)       | <u>1,830</u> |
| PWS RMI                                       | <u>124.14</u>                      | Distance from Outfall (mi) | <u>5.98</u>  |

<sup>(1)</sup> Boiler blowdown and reverse osmosis concentrate waste streams are not expected to not contribute to the pathogen impairment of the unnamed tributary to Winfield Creek.

**NPDES Permit Fact Sheet**  
**Cargill Feed & Nutrition**

**NPDES Permit No. PA0232785**

|                                |                       |                          |                        |
|--------------------------------|-----------------------|--------------------------|------------------------|
| <b>IMP No.</b>                 | <u>201</u>            | <b>Design Flow (MGD)</b> | <u>n/a</u>             |
| <b>Latitude</b>                | <u>40° 54' 27.57"</u> | <b>Longitude</b>         | <u>-76° 51' 17.24"</u> |
| <b>Quad Name</b>               | <u>Northumberland</u> | <b>Quad Code</b>         | <u>11131</u>           |
| <b>Wastewater Description:</b> |                       | <u>Stormwater</u>        |                        |

|                                    |                                |                                   |                |
|------------------------------------|--------------------------------|-----------------------------------|----------------|
| <b>Receiving Waters</b>            | <u>UNT to Winfield Creek</u>   | <b>Stream Code</b>                | <u>18679</u>   |
| <b>NHD Com ID</b>                  | <u>66921219</u>                | <b>RMI</b>                        | <u>0.09</u>    |
| <b>Drainage Area</b>               | <u>n/a</u>                     | <b>Yield (cfs/mi<sup>2</sup>)</b> | <u>n/a</u>     |
| <b>Q<sub>7-10</sub> Flow (cfs)</b> | <u>n/a</u>                     | <b>Q<sub>7-10</sub> Basis</b>     | <u>n/a</u>     |
| <b>Elevation (ft)</b>              | <u>n/a</u>                     | <b>Slope (ft/ft)</b>              | <u>n/a</u>     |
| <b>Watershed No.</b>               | <u>10-C</u>                    | <b>Chapter 93 Class.</b>          | <u>WWF, MF</u> |
| <b>Existing Use</b>                | <u>n/a</u>                     | <b>Existing Use Qualifier</b>     | <u>n/a</u>     |
| <b>Exceptions to Use</b>           | <u>n/a</u>                     | <b>Exceptions to Criteria</b>     | <u>n/a</u>     |
| <b>Assessment Status</b>           | <u>Impaired <sup>(1)</sup></u> |                                   |                |
| <b>Cause(s) of Impairment</b>      | <u>Pathogens</u>               |                                   |                |
| <b>Source(s) of Impairment</b>     | <u>Unknown</u>                 |                                   |                |
| <b>TMDL Status</b>                 | <u>n/a</u>                     | <b>Name</b>                       | <u>n/a</u>     |

|  |                                    |                                   |              |
|--|------------------------------------|-----------------------------------|--------------|
| <b>Nearest Downstream Public Water Supply Intake</b> | <u>Sunbury Municipal Authority</u> |                                   |              |
| <b>PWS Waters</b>                                    | <u>Susquehanna River</u>           | <b>Flow at Intake (cfs)</b>       | <u>1,830</u> |
| <b>PWS RMI</b>                                       | <u>124.14</u>                      | <b>Distance from Outfall (mi)</b> | <u>5.98</u>  |

<sup>(1)</sup> The stormwater discharged from this facility's property is not expected to not contribute to the pathogen impairment of the unnamed tributary to Winfield Creek.

**NPDES Permit Fact Sheet**  
**Cargill Feed & Nutrition**

**NPDES Permit No. PA0232785**

|   |                                  |
|---|----------------------------------|
| <b>Outfall No.</b> <u>002</u>             | Design Flow (MGD) <u>n/a</u>     |
| Latitude <u>40° 54' 34.20"</u>            | Longitude <u>-76° 51' 10.81"</u> |
| Quad Name <u>Northumberland</u>           | Quad Code <u>11131</u>           |
| Wastewater Description: <u>Stormwater</u> |                                  |

|  |   |
|--|---|
| Receiving Waters <u>Winfield Creek</u>                         | Stream Code <u>18678</u>                |
| NHD Com ID <u>66921163</u>                                     | RMI <u>0.5</u>                          |
| Drainage Area <u>n/a</u>                                       | Yield (cfs/mi <sup>2</sup> ) <u>n/a</u> |
| Q <sub>7-10</sub> Flow (cfs) <u>n/a</u>                        | Q <sub>7-10</sub> Basis <u>n/a</u>      |
| Elevation (ft) <u>n/a</u>                                      | Slope (ft/ft) <u>n/a</u>                |
| Watershed No. <u>10-C</u>                                      | Chapter 93 Class. <u>WWF, MF</u>        |
| Existing Use <u>n/a</u>  | Existing Use Qualifier <u>n/a</u>       |
| Exceptions to Use <u>n/a</u>                                   | Exceptions to Criteria <u>n/a</u>       |
| Assessment Status <u>Impaired <sup>(1)</sup></u>               |   |
| Cause(s) of Impairment <u>Habitat alterations, siltation</u>   |   |
| Source(s) of Impairment <u>Channelization, crop production</u> |   |
| TMDL Status <u>n/a</u>   | Name <u>n/a</u>                         |

|  |  |
|--|--|
| Nearest Downstream Public Water Supply Intake <u>Sunbury Municipal Authority</u> |  |
| PWS Waters <u>Susquehanna River</u>  | Flow at Intake (cfs) <u>1,830</u>      |
| PWS RMI <u>124.14</u>  | Distance from Outfall (mi) <u>5.25</u> |

<sup>(1)</sup> The impairment is from agricultural sources. The stormwater discharge from this facility should not contribute to Winfield Creek's impairment.

**NPDES Permit Fact Sheet**  
**Cargill Feed & Nutrition**

**NPDES Permit No. PA0232785**

|   |                   |                        |
|---|-------------------|------------------------|
| <b>Outfall No.</b> <u>003</u>             | Design Flow (MGD) | <u>n/a</u>             |
| Latitude <u>40° 54' 25.76"</u>            | Longitude         | <u>-76° 51' 20.14"</u> |
| Quad Name <u>Northumberland</u>           | Quad Code         | <u>11131</u>           |
| Wastewater Description: <u>Stormwater</u> |                   |                        |

|  |                              |                |
|--|------------------------------|----------------|
| Receiving Waters <u>UNT to Winfield Creek</u>    | Stream Code                  | <u>18679</u>   |
| NHD Com ID <u>66921169</u>                       | RMI                          | <u>0.12</u>    |
| Drainage Area <u>n/a</u>                         | Yield (cfs/mi <sup>2</sup> ) | <u>n/a</u>     |
| Q <sub>7-10</sub> Flow (cfs) <u>n/a</u>          | Q <sub>7-10</sub> Basis      | <u>n/a</u>     |
| Elevation (ft) <u>n/a</u>                        | Slope (ft/ft)                | <u>n/a</u>     |
| Watershed No. <u>10-C</u>                        | Chapter 93 Class.            | <u>WWF, MF</u> |
| Existing Use <u>n/a</u>                          | Existing Use Qualifier       | <u>n/a</u>     |
| Exceptions to Use <u>n/a</u>                     | Exceptions to Criteria       | <u>n/a</u>     |
| Assessment Status <u>Impaired <sup>(1)</sup></u> |                              |                |
| Cause(s) of Impairment <u>Pathogens</u>          |                              |                |
| Source(s) of Impairment <u>Unknown</u>           |                              |                |
| TMDL Status <u>n/a</u>                           | Name                         | <u>n/a</u>     |

|  |                            |              |
|--|----------------------------|--------------|
| Nearest Downstream Public Water Supply Intake <u>Sunbury Municipal Authority</u> |                            |              |
| PWS Waters <u>Susquehanna River</u>  | Flow at Intake (cfs)       | <u>1,830</u> |
| PWS RMI <u>124.14</u>  | Distance from Outfall (mi) | <u>6.01</u>  |

<sup>(1)</sup> The stormwater discharged from this facility's property is not expected to not contribute to the pathogen impairment of the unnamed tributary to Winfield Creek.

**NPDES Permit Fact Sheet**  
**Cargill Feed & Nutrition**

**NPDES Permit No. PA0232785**

|   |                                  |
|---|----------------------------------|
| <b>Outfall No.</b> <u>004</u>             | Design Flow (MGD) <u>n/a</u>     |
| Latitude <u>40° 54' 34.20"</u>            | Longitude <u>-76° 51' 10.81"</u> |
| Quad Name <u>Northumberland</u>           | Quad Code <u>11131</u>           |
| Wastewater Description: <u>Stormwater</u> |                                  |

|  |   |
|--|---|
| Receiving Waters <u>Winfield Creek</u>                         | Stream Code <u>18678</u>                |
| NHD Com ID <u>66921213</u>                                     | RMI <u>0.5</u>                          |
| Drainage Area <u>n/a</u>                                       | Yield (cfs/mi <sup>2</sup> ) <u>n/a</u> |
| Q <sub>7-10</sub> Flow (cfs) <u>n/a</u>                        | Q <sub>7-10</sub> Basis <u>n/a</u>      |
| Elevation (ft) <u>n/a</u>                                      | Slope (ft/ft) <u>n/a</u>                |
| Watershed No. <u>10-C</u>                                      | Chapter 93 Class. <u>WWF, MF</u>        |
| Existing Use <u>n/a</u>  | Existing Use Qualifier <u>n/a</u>       |
| Exceptions to Use <u>n/a</u>                                   | Exceptions to Criteria <u>n/a</u>       |
| Assessment Status <u>Impaired <sup>(1)</sup></u>               |   |
| Cause(s) of Impairment <u>Habitat alterations, siltation</u>   |   |
| Source(s) of Impairment <u>Channelization, crop production</u> |   |
| TMDL Status <u>n/a</u>   | Name <u>n/a</u>                         |

|  |  |
|--|--|
| Nearest Downstream Public Water Supply Intake <u>Sunbury Municipal Authority</u> |  |
| PWS Waters <u>Susquehanna River</u>  | Flow at Intake (cfs) <u>1,830</u>      |
| PWS RMI <u>124.14</u>  | Distance from Outfall (mi) <u>5.25</u> |

<sup>(1)</sup> The impairment is from agricultural sources. The stormwater discharge from this facility should not contribute to Winfield Creek's impairment.

**Facility Summary**

Cargill Inc. operates the Cargill Feed & Nutrition facility located in Winfield, PA. The facility is classified under SIC Code 2048; preparing feed and feed ingredients for animals and fowls, except dogs and cats. Waste streams at this facility consist of reverse osmosis concentration, boiler blowdown, and industrial stormwater. The facility does not discharge any process wastewater.

Outfall 001 discharges a combination of boiler blowdown, reverse osmosis concentrate, and stormwater. Monitoring for these waste streams is conducted upstream prior of the discharge point, prior to blending, at IMPs 101 (boiler blowdown, reverse osmosis concentrate) and 201 (stormwater). The stormwater originates from the middle section of the property.

Outfalls 002 and 004 discharge stormwater collected from the eastern side of the property.

Outfall 003 discharges stormwater collected from the western side of the property.



**Compliance History**

The following eDMR violations occurred during the existing permit's term:

| Outfall | Noncompliance Date       | Noncompliance Description                     | Parameter | Sample | Violation | Permit Value | Units | SBC             |
|---------|--------------------------|---|-----------|--------|-----------|--------------|-------|-----------------|
| 101     | 11/22/2017               | Sample collection less frequent than required | pH        |        |           |              |       |                 |
| 101     | 11/22/2017               | Sample collection less frequent than required | TDS       |        |           |              |       |                 |
| 101     | 12/11/2017               | Sample type not in accordance with permit     | Flow      |        |           |              |       |                 |
| 101     | 1/18/2018                | Sample type not in accordance with permit     | Flow      |        |           |              |       |                 |
| 101     | 7/10/2018                | Violation of permit condition                 | TDS       | 2290   | >         | 2000         | mg/L  | Average Monthly |
| 101     | 3/29/2019 <sup>(1)</sup> | Violation of permit condition                 | TDS       | 2190   | >         | 2000         | mg/L  | Average Monthly |
|         | 7/12/2019                | Sample collection less frequent than required |           |        |           |              |       |                 |
| 101     | 3/29/2019 <sup>(2)</sup> | Violation of permit condition                 | TDS       | 2120   | >         | 2000         | mg/L  | Average Monthly |
|         | 4/30/2019                | Late DMR Submission                           |           |        |           |              |       |                 |
| 101     | 8/15/2019 <sup>(3)</sup> | Violation of permit condition                 | TDS       | 2090   | >         | 2000         | mg/L  | Average Monthly |
|         | 10/30/2019               | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 11/26/2019               | Other   |           |        |           |              |       |                 |
|         | 3/30/2020                | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 6/29/2020                | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 9/15/2020                | Other   |           |        |           |              |       |                 |
| 101     | 9/15/2020                | Violation of permit condition                 | TDS       | 2100   | >         | 2000         | mg/L  | Average Monthly |
|         | 10/29/2020               | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 6/1/2021                 | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 8/30/2021                | Late DMR Submission                           |           |        |           |              |       |                 |
| 101     | 9/28/2021 <sup>(4)</sup> | Violation of permit condition                 | TDS       | 2210   | >         | 2000         | mg/L  | Average Monthly |
|         | 12/29/2021               | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 3/30/2022                | Late DMR Submission                           |           |        |           |              |       |                 |
|         | 7/29/2022                | Late DMR Submission                           |           |        |           |              |       |                 |

Permittee's Comments:   
<sup>(1)</sup> Improve sampling procedure, stirring up sediment in drainage channel during sampling.   
<sup>(2)</sup> Update sampling procedure, clean sampling channel. Stirring up sediment.   
<sup>(3)</sup> The sample point storm drain had acquired some sediment over time that needed to be cleaned out before sampled. This storm drain will be cleaned out monthly before monitoring is performed.   
<sup>(4)</sup> Outfalls have been getting more soil than usual due to the large amount of rain we have been experiencing. Outfalls were cleaned out prior to next month's sample.

The facility was most recently inspected by DEP on March 30, 2022. The inspection report noted a TDS effluent limit violation, recommended implementation of BMPs to improve stormwater effluent quality, and that the permit renewal application was late.

There are no open violations associated with the permittee.

**Development of Effluent Limitations**

|  |                       |                          |                        |
|--|-----------------------|--------------------------|------------------------|
| <b>Outfall No.</b>   | <u>001</u>            | <b>Design Flow (MGD)</b> | <u>n/a</u>             |
| <b>Latitude</b>  | <u>40° 54' 27.45"</u> | <b>Longitude</b>         | <u>-76° 51' 19.11"</u> |
| <b>Wastewater Description:</b> <u>Boiler blowdown, reverse osmosis concentrate, stormwater</u> |                       |                          |                        |

Outfall 001 is the final discharge points for IMPs 101 and 201.

**Technology-Based Limitations**

Relevant technology-based effluent limitations have been applied at the appropriate upstream internal monitoring points.

**Water Quality-Based Limitations**

Relevant water quality-based limitations have been applied at the appropriate upstream internal monitoring points.

**Additional Considerations**

Temperature limits were considered during this review due to boiler blowdown being included in the discharge. The analysis results show a maximum temperature of 60 °F for samples taken for the application. Since it does not appear that the temperature of the discharge will negatively impact the receiving water, no temperature limits are proposed.

|   |                       |                   |                        |
|---|-----------------------|-------------------|------------------------|
| Outfall No.   | <u>101</u>            | Design Flow (MGD) | <u>0.006798</u>        |
| Latitude  | <u>40° 54' 28.22"</u> | Longitude         | <u>-76° 51' 15.21"</u> |
| Wastewater Description: <u>Boiler blowdown, reverse osmosis concentrate</u> |                       |                   |                        |

The purpose of IMP 101 is to monitor the boiler blowdown and reverse osmosis backwash waste streams prior to blending with stormwater at Outfall 001 so that the permittee can demonstrate compliance with applicable TBELs.

**Technology-Based Limitations**

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

| Parameter                             | Limit (mg/l) | SBC             | State Regulation |
|---------------------------------------|--------------|-----------------|------------------|
| pH (S.U.) <sup>(1)</sup>              | 6.0          | Minimum         | 95.2(1)          |
|                                       | 9.0          | IMAX            | 95.2(1)          |
| Oil and Grease <sup>(2)</sup>         | 15.0         | Average Monthly | 95.2(2)          |
|                                       | 30.0         | IMAX            | 95.2(2)          |
| Dissolved Iron <sup>(3)</sup>         | 7.0          | IMAX            | 95.2(4)          |
| Total Dissolved Solids <sup>(4)</sup> | 2,000        | Average Monthly | 95.10(c)         |

- (1) Industrial waste standards at 25 PA § 95.2(1) require a discharge pH range between 6.0 and 9.0 for all discharges of industrial wastewater.
- (2) Section 95.2(2) requires discharges of industrial wastewater meet 15.0 mg/l average monthly and 30.0 mg/l instantaneous maximum for Oil and Grease. Sampling results submitted with the application indicate that oil and grease is not present in the wastewater at detectable concentrations. Since there does not appear to be a reasonable potential to exceed the oil and grease technology-based standards at § 95.2(1) it is not necessary to establish limits in the permit.
- (3) Section 95.2(4) requires discharges of industrial wastewater meet an instantaneous maximum limit of 7.0 mg/l for dissolved iron. Past sampling results indicate dissolved iron is present at concentrations that do not approach 7.0 mg/l. Since there does not appear to be a reasonable potential to exceed the dissolved iron technology-based standards at § 95.2(4) it is not necessary to establish limits in the permit.
- (4) The previous permit established a TDS limit of 2,000 mg/l monthly average based on requirements for new and expanding discharges at § 95.10(c). The permittee has exceeded this concentration several times throughout the existing permit's term. DEP recommends that the limit remains in the permit.

**Water Quality-Based Limitations**

Discharges of non-process wastewater are not required by the application to submit sample results for pollutants that are generally candidates for modeling (i.e., metals, volatiles, acids, etc.). Accordingly, an analysis of water quality-based limitations was not conducted.

**Chesapeake Bay**

The only industrial wastes being discharged from the facility are boiler blowdown and reverse osmosis concentrate. Neither of these streams are expected to contribute to a net increase in the loading of Total Nitrogen (TN) and Phosphorus (TP). Accordingly, monitoring requirements for TN and TP are not necessary.

Outfall No. 201  
Latitude 40° 54' 27.57"  
Wastewater Description: Stormwater

Design Flow (MGD) n/a  
Longitude -76° 51' 17.24"

**Technology-Based Limitations**

There are no applicable technology-based effluent limitations for industrial stormwater.

**Water Quality-Based Limitations**

A water quality analysis for a stormwater discharge is not appropriate.

**Best Professional Judgment (BPJ) Limitations**

| Parameter                        | Limit (mg/l) | Sample Type | Benchmark Values | Basis              |
|----------------------------------|--------------|-------------|------------------|--------------------|
| Total Nitrogen <sup>(1)</sup>    | Report       | Calculation | XXX              | Appendix I, PAG-03 |
| Total Phosphorus                 | Report       | Grab        | XXX              |                    |
| pH (S.U.)                        | Report       | Grab        | 9.0              |                    |
| Biochemical Oxygen Demand (BOD5) | Report       | Grab        | 30               |                    |
| Chemical Oxygen Demand (COD)     | Report       | Grab        | 120              |                    |
| Total Suspended Solids           | Report       | Grab        | 100              |                    |
| Oil and Grease                   | Report       | Grab        | 30               |                    |
| Nitrate-Nitrite as N             | Report       | Grab        | XXX              |                    |

<sup>(1)</sup> Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO<sub>2</sub>+NO<sub>3</sub>-N), where TKN and NO<sub>2</sub>+NO<sub>3</sub>-N are measured in the same sample.

The above monitoring requirements are pollutants of concern for facilities with standard industrial classification (SIC) codes that are covered by Appendix I of the PAG-03 industrial stormwater general permit. Numeric benchmarks will be included in Part C of the permit.

The PAG-03 has been updated since the permit was last issued. Appendix I now requires total nitrogen and phosphorus analyses. So that this individual permit is at least as stringent as the PAG-03, DEP recommends total nitrogen and total phosphorus reporting requirements are added to the permit.

Outfall No. 002  
Latitude 40° 54' 34.20"  
Wastewater Description: Stormwater

Design Flow (MGD) n/a  
Longitude -76° 51' 10.81"

**Technology-Based Limitations**

There are no applicable technology-based effluent limitations for industrial stormwater.

**Water Quality-Based Limitations**

A water quality analysis for a stormwater discharge is not appropriate.

**Best Professional Judgment (BPJ) Limitations**

| Parameter                        | Limit (mg/l) | Sample Type | Benchmark Values | Basis              |
|----------------------------------|--------------|-------------|------------------|--------------------|
| Total Nitrogen <sup>(1)</sup>    | Report       | Calculation | XXX              | Appendix I, PAG-03 |
| Total Phosphorus                 | Report       | Grab        | XXX              |                    |
| pH (S.U.)                        | Report       | Grab        | 9.0              |                    |
| Biochemical Oxygen Demand (BOD5) | Report       | Grab        | 30               |                    |
| Chemical Oxygen Demand (COD)     | Report       | Grab        | 120              |                    |
| Total Suspended Solids           | Report       | Grab        | 100              |                    |
| Oil and Grease                   | Report       | Grab        | 30               |                    |
| Nitrate-Nitrite as N             | Report       | Grab        | XXX              |                    |

<sup>(1)</sup> Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO<sub>2</sub>+NO<sub>3</sub>-N), where TKN and NO<sub>2</sub>+NO<sub>3</sub>-N are measured in the same sample.

The above monitoring requirements are pollutants of concern for facilities with standard industrial classification (SIC) codes that are covered by Appendix I of the PAG-03 industrial stormwater general permit. Numeric benchmarks will be included in Part C of the permit.

The PAG-03 has been updated since the permit was last issued. Appendix I now requires total nitrogen and phosphorus analyses. So that this individual permit is at least as stringent as the PAG-03, DEP recommends total nitrogen and total phosphorus reporting requirements are added to the permit.

Outfall No. 003  
 Latitude 40° 54' 25.76"  
 Wastewater Description: Stormwater

Design Flow (MGD) n/a  
 Longitude -76° 51' 20.14"

**Technology-Based Limitations**

There are no applicable technology-based effluent limitations for industrial stormwater.

**Water Quality-Based Limitations**

A water quality analysis for a stormwater discharge is not appropriate.

**Best Professional Judgment (BPJ) Limitations**

| Parameter                        | Limit (mg/l) | Sample Type | Benchmark Values | Basis              |
|----------------------------------|--------------|-------------|------------------|--------------------|
| Total Nitrogen <sup>(1)</sup>    | Report       | Calculation | XXX              | Appendix I, PAG-03 |
| Total Phosphorus                 | Report       | Grab        | XXX              |                    |
| pH (S.U.)                        | Report       | Grab        | 9.0              |                    |
| Biochemical Oxygen Demand (BOD5) | Report       | Grab        | 30               |                    |
| Chemical Oxygen Demand (COD)     | Report       | Grab        | 120              |                    |
| Total Suspended Solids           | Report       | Grab        | 100              |                    |
| Oil and Grease                   | Report       | Grab        | 30               |                    |
| Nitrate-Nitrite as N             | Report       | Grab        | XXX              |                    |

<sup>(1)</sup> Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO<sub>2</sub>+NO<sub>3</sub>-N), where TKN and NO<sub>2</sub>+NO<sub>3</sub>-N are measured in the same sample.

The above monitoring requirements are pollutants of concern for facilities with standard industrial classification (SIC) codes that are covered by Appendix I of the PAG-03 industrial stormwater general permit. Numeric benchmarks will be included in Part C of the permit.

The PAG-03 has been updated since the permit was last issued. Appendix I now requires total nitrogen and phosphorus analyses. So that this individual permit is at least as stringent as the PAG-03, DEP recommends total nitrogen and total phosphorus reporting requirements are added to the permit.

Outfall No. 004  
Latitude 40° 54' 34.20"  
Wastewater Description: Stormwater

Design Flow (MGD) n/a  
Longitude -76° 51' 10.81"

**Technology-Based Limitations**

There are no applicable technology-based effluent limitations for industrial stormwater.

**Water Quality-Based Limitations**

A water quality analysis for a stormwater discharge is not appropriate.

**Best Professional Judgment (BPJ) Limitations**

| Parameter                        | Limit (mg/l) | Sample Type | Benchmark Values | Basis              |
|----------------------------------|--------------|-------------|------------------|--------------------|
| Total Nitrogen <sup>(1)</sup>    | Report       | Calculation | XXX              | Appendix I, PAG-03 |
| Total Phosphorus                 | Report       | Grab        | XXX              |                    |
| pH (S.U.)                        | Report       | Grab        | 9.0              |                    |
| Biochemical Oxygen Demand (BOD5) | Report       | Grab        | 30               |                    |
| Chemical Oxygen Demand (COD)     | Report       | Grab        | 120              |                    |
| Total Suspended Solids           | Report       | Grab        | 100              |                    |
| Oil and Grease                   | Report       | Grab        | 30               |                    |
| Nitrate-Nitrite as N             | Report       | Grab        | XXX              |                    |

<sup>(1)</sup> Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO<sub>2</sub>+NO<sub>3</sub>-N), where TKN and NO<sub>2</sub>+NO<sub>3</sub>-N are measured in the same sample.

The above monitoring requirements are pollutants of concern for facilities with standard industrial classification (SIC) codes that are covered by Appendix I of the PAG-03 industrial stormwater general permit. Numeric benchmarks will be included in Part C of the permit.

The PAG-03 has been updated since the permit was last issued. Appendix I now requires total nitrogen and phosphorus analyses. So that this individual permit is at least as stringent as the PAG-03, DEP recommends total nitrogen and total phosphorus reporting requirements are added to the permit.

**Existing Effluent Limitations and Monitoring Requirements**

The existing effluent limitations and monitoring requirements are as follows:

**IMP 101, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter              | Effluent Limitations |               |                       |                 |               |                  | Monitoring Requirements       |                      |
|------------------------|----------------------|---------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                        | Mass Units (lbs/day) |               | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                        | Average Monthly      | Daily Maximum | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| Flow (MGD)             | Report               | Report        | XXX                   | XXX             | XXX           | XXX              | 1/day                         | Measured             |
| pH (S.U.)              | XXX                  | XXX           | 6.0                   | XXX             | XXX           | 9.0              | 1/day                         | Grab                 |
| Total Dissolved Solids | 113.3                | 226.7         | XXX                   | 2,000.0         | 4,000.0       | 5,000            | 1/month                       | Grab                 |

Compliance Sampling Location: IMP 101



**IMP 201, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: IMP 201

Outfall 002, Continued (from Permit Effective Date through Permit Expiration Date)

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 002

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 003

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 004

**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.

**IMP 101, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter              | Effluent Limitations |                  |                       |                 |                  |                  | Monitoring Requirements       |                      |
|------------------------|----------------------|------------------|-----------------------|-----------------|------------------|------------------|-------------------------------|----------------------|
|                        | Mass Units (lbs/day) |                  | Concentrations (mg/L) |                 |                  |                  | Minimum Measurement Frequency | Required Sample Type |
|                        | Average Monthly      | Average Weekly   | Minimum               | Average Monthly | Maximum          | Instant. Maximum |                               |                      |
| Flow (MGD)             | Report               | Report Daily Max | XXX                   | XXX             | XXX              | XXX              | 1/day                         | Measured             |
| pH (S.U.)              | XXX                  | XXX              | 6.0                   | XXX             | XXX              | 9.0              | 1/day                         | Grab                 |
| Total Dissolved Solids | 113.3                | 226.7 Daily Max  | XXX                   | 2000.0          | 4000.0 Daily Max | 5000             | 1/month                       | Grab                 |

Compliance Sampling Location: IMP 101

**IMP 201, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Nitrogen                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Calculation          |
| Total Phosphorus                 | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: IMP 201

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Nitrogen                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Calculation          |
| Total Phosphorus                 | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 002

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Nitrogen                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Calculation          |
| Total Phosphorus                 | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 003



Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter                        | Effluent Limitations |                |                       |                 |               |                  | Monitoring Requirements       |                      |
|----------------------------------|----------------------|----------------|-----------------------|-----------------|---------------|------------------|-------------------------------|----------------------|
|                                  | Mass Units (lbs/day) |                | Concentrations (mg/L) |                 |               |                  | Minimum Measurement Frequency | Required Sample Type |
|                                  | Average Monthly      | Average Weekly | Minimum               | Average Monthly | Daily Maximum | Instant. Maximum |                               |                      |
| pH (S.U.)                        | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Biochemical Oxygen Demand (BOD5) | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Chemical Oxygen Demand (COD)     | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Suspended Solids           | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Oil and Grease                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Nitrate-Nitrite as N             | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |
| Total Nitrogen                   | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Calculation          |
| Total Phosphorus                 | XXX                  | XXX            | XXX                   | XXX             | Report        | XXX              | 1/6 months                    | Grab                 |

Compliance Sampling Location: Outfall 004