

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0009911
APS ID 629381
Authorization ID 1359473

Applicant and Facility Information

| | | | |
|---------------------------|-------------------------------------------------------------------|------------------|------------------------------------------------------------|
| Applicant Name | <u>Papettis Hygrade Egg Products Inc.</u> | Facility Name | <u>Michael Foods Egg Products</u> |
| Applicant Address | <u>68 Spain Road</u> <u>Klingerstown, PA 17941-9656</u> | Facility Address | <u>68 Spain Road</u> <u>Klingerstown, PA 17941-9656</u> |
| Applicant Contact | <u>Kyle Strohecker</u> <u>Kyle.Strohecker@michaelfoods.com</u> | Facility Contact | <u>Kyle Strohecker</u> |
| Applicant Phone | <u>(570) 425-6223</u> | Facility Phone | <u>(570) 425-6223</u> |
| Client ID | <u>123964</u> | Site ID | <u>244458</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Upper Mahantango Township</u> |
| Connection Status | | County | <u>Schuylkill</u> |
| Date Application Received | <u>June 28, 2021</u> | EPA Waived? | <u>No</u> |
| Date Application Accepted | <u>June 28, 2021</u> | If No, Reason | <u>Significant Chesapeake Bay Facility</u> |
| Purpose of Application | <u>RENEWAL OF EXISTING NPDES PERMIT.</u> | | |

Summary of Review

The applicant is requesting the renewal of their NPDES permit to discharge treated IW, sewage, and stormwater from 4 outfalls. The receiving stream(s), Mahantango Creek (WWF) and Pine Creek (CWF, MF), are located in State Water Plan watershed 6-C and are classified for Warm Water Fishes, Cold Water Fishes, Migratory Fishes, aquatic life, water supply and recreation. As per the Department's current existing use list, the receiving streams do not have an existing use classification that is more protective than the designated use. The discharge is not expected to affect public water supplies.

Outfall 001 is rated for 0.295 MGD consisting of treated IW and sewage effluent. The industrial process wastewater is generated from egg cracking operations, egg washing and equipment cleaning. A package treatment plant treats their sanitary waste. This is a minor IW Facility not covered by an ELG with a .155 MGD Avg and a 0.1851 Daily Max Average.

The existing Permit limits will be retained. It is a significant Chesapeake Bay facility with WLAs. The total Nitrogen limit is **8,104 lbs/year** and the Total Phosphorus is **532 lbs/year**. Discharge loadings of TDS authorized by DEP, under NPDES permits or other authority that were issued or reissued prior to the effective date of §95.10 (August 21, 2010), are exempt from the treatment requirements of §95.10 until the net loading is to be increased, which is not the case since 1999. The CBOD₅, TSS, TRC, Fecal Coliform and Oil/ Grease are tech based limits. The Ammonia is a water quality based limit.

Outfalls 002, 003, and 004 are for stormwater only. Outfalls 002 and 004 discharge to Pine Creek. Outfall 003 discharges to Mahantango Creek. The facility is classified under SIC Code 201503 (Egg Processing). PaDEP's Stormwater PAG03 General Permit recommends Appendix I for SIC Codes 2011, 2013, 2015 (Animal Handling and Meat Packing Facilities) applies.

Pine Creek has a TMDL that is affected by pollution from non-point source coal mine AMD Metals. To provide a reasonable assurance that reductions in any AMD TMDL can be met, Pennsylvania has adopted various programs. These methods

| Approve | Deny | Signatures | Date |
|---------|------|------------------------------------------------------------------------------------|---------------|
| X | | Bernard Feist (signed) Bernard Feist, P.E. / Environmental Engineer | July 22, 2021 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager | 8-18-21 |

Summary of Review

include PADEP's primary efforts to improve water quality through reclamation of abandoned mine lands and through the National Pollution Discharge Elimination System (NPDES) permit program (**for all remaining active mining**).

Funding sources available that are currently being used for projects designed to achieve AMD TMDL reductions include the Environmental Protection Agency (EPA) 319 grant program and Pennsylvania's Growing Greener Program (for watershed restoration and protection in mine-drainage impacted watersheds and abandoned mine reclamation).

Because the pollution sources in the watershed are nonpoint sources, the TMDLs' component makeup will be load allocations (LAs) with waste load allocations (WLAs) for permitted discharges. All allocations will be specified as long-term average daily concentrations. These long-term average concentrations are expected to meet water-quality criteria 99% of the time as required in PA Title 25 Chapter 96.3(c). The following table shows the applicable water-quality criteria for the selected parameters:

Table 3. Applicable Water Quality Criteria

| <i>Parameter</i> | <i>Criterion Value (mg/l)</i> | <i>Total Recoverable/Dissolved</i> |
|------------------|-------------------------------|------------------------------------|
| Aluminum (Al) | 0.75 | Total Recoverable |
| Iron (Fe) | 1.50 | 30 day average; Total Recoverable |
| Manganese (Mn) | 1.00 | Total Recoverable |
| pH * | 6.0-9.0 | N/A |

In general, DEP establish limits in the draft permit where the effluent concentration exceeds 50% of the WQBEL. For non-conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 25% - 50% of the WQBEL. For conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 10% - 50% of the WQBEL.

Sludge use and disposal description and location(s):

| Treatment Unit Description | Method for Handling and Disposal of Solid or Liquid Residue Resulting from Treatment |
|--------------------------------------------|---------------------------------------------------------------------------------------------|
| Lift Station | Hauled by JG Env to Landy Shade Farm land application |
| Influent Equalization | Hauled by JG Env to Landy Shade Farm land application |
| Anaerobic Digestion | Hauled by Tri-County to Domsife land application |
| Sequencing Batch Reactors | Transferred to Anaerobic Digester |
| Effluent Equalization and Chlorine Contact | Hauled by Tri-County to Domsife land application |

The existing permit expires on 12/31/2021 and the application was received on 6/28/2021 via Onbase.

The NMS query "Inspections & Inspectors – Inspections – Inspection History by Permit" was run. An Administrative/File Review was done on 03/24/2021 with Violations Noted.

The NMS query "Violations – eFACTS – Open Violations for Client" was run. There are currently open violations that must be resolved before the Permit is allowed to be renewed.

| PROGRAM SPECIFIC ID | INSP ID | VIOLATION ID | INSPECTION CATEGORY | VIOLATION DATE | VIOLATION CODE | VIOLATION | PF INSPECTOR | INSP REGION |
|---------------------|---------|--------------|---------------------|----------------|----------------|----------------------------------------------------------------------------------------------|-----------------|-------------|
| PA0009911 | 2913096 | 857462 | PF | 07/11/2019 | CSL301 | CSL - Unauthorized, unpermitted discharge of industrial wastes to waters of the Commonwealth | SABITSKY, JARED | NERO |
| PA0009911 | 3166195 | 911233 | PF | 03/24/2021 | 92A.44 | NPDES - Violation of effluent limits in Part A of permit | SABITSKY, JARED | NERO |

Summary of Review

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. | <u>001</u> | Design Flow (MGD) | <u>.295</u> |
| Latitude | <u>40.63639</u> | Longitude | <u>-76.69528</u> |
| Quad Name | <u></u> | Quad Code | <u></u> |
| Wastewater Description: <u>Sewage Effluent and IW Process Effluent without ELG</u> | | | |
| Receiving Waters | <u>Pine Creek</u> | Stream Code | <u>17208</u> |
| NHD HUD | <u>2050301</u> | RMI | <u>0.8</u> |
| Drainage Area | <u>74.3</u> | Yield (cfs/mi ²) | <u>0.06</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>4.5</u> | Q ₇₋₁₀ Basis | <u>Dflow USGS 01555500</u> |
| Elevation (ft) | <u>535</u> | Slope (ft/ft) | <u>0.0036</u> |
| Watershed No. | <u>6-C</u> | Chapter 93 Class. | <u>CWF</u> |
| Existing Use | <u>na</u> | Existing Use Qualifier | <u></u> |
| Exceptions to Use | <u></u> | Exceptions to Criteria | <u></u> |
| Assessment Status | <u>Impaired</u> | | |
| Cause(s) of Impairment | <u>Metals, Siltation</u> | | |
| Source(s) of Impairment | <u>AMD, Agriculture</u> | | |
| TMDL Status | <u>Final</u> | Name | <u>Pine Creek - Schuylkill County</u> |
| Nearest Downstream Public Water Supply Intake | <u>CAPITAL REGION WATER</u> | | |
| PWS Waters | <u></u> | Flow at Intake (cfs) | <u></u> |
| PWS RMI | <u></u> | Distance from Outfall (mi) | <u>>35 miles</u> |

Changes Since Last Permit Issuance: 2021 update - Sewage discharges will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD.

Other Notes:

- SIC 201503 Egg Processing -Processing whole and liquid egg products, miscellaneous food products
- WQM Permit No.: 5499201 was issued 05/21/1999
- Submitted Total Hardness Upstream of the Process Wastewater Outfall (mg/L): 116

| Gage | Period | Days in + | Zero/Mis+ | 1B3 | Percentile | Excur per+ | 7Q10 |
|----------------------------------------------------|-------------------------|-----------|-----------|------|------------|------------|------|
| 01555500 - East Mahantango Creek near Dalmatia, PA | 1995/04/01 - 2021/04/01 | 9,497 | 0/0 | 7.18 | 0.12% | 0.92 | 9.68 |

USGS STATION.--01555500 EAST MAHANTANGO CREEK NEAR DALMATIA, PA
 LOCATION.--Lat 40° 36'40", long 76° 54'44", Northumberland County, Hydrologic Unit 02050301, on right bank at bridge on SR 3017, 2.0 mi upstream from mouth, and 3.2 mi south of Dalmatia.
 DRAINAGE AREA.--162 square miles. PERIOD OF RECORD.--October 1929 to current year.
 Q₇₋₁₀ LowFlowYield (cfs/mi²)= 9.68/162 =0.06

RMI Outfall 001: 0.8 Pine Creek WRDS: 17208 Elevation 535

Clicked Point (Latitude, Longitude):

40.63915, -76.68961

Time:

2021-07-21 08:20:59



Low-Flow Statistics Parameters [Low Flow Region 2]

| Parameter Code | Parameter Name | Value | Units |
|----------------|----------------|-------|--------------|
| DRNAREA | Drainage Area | 74.3 | square miles |

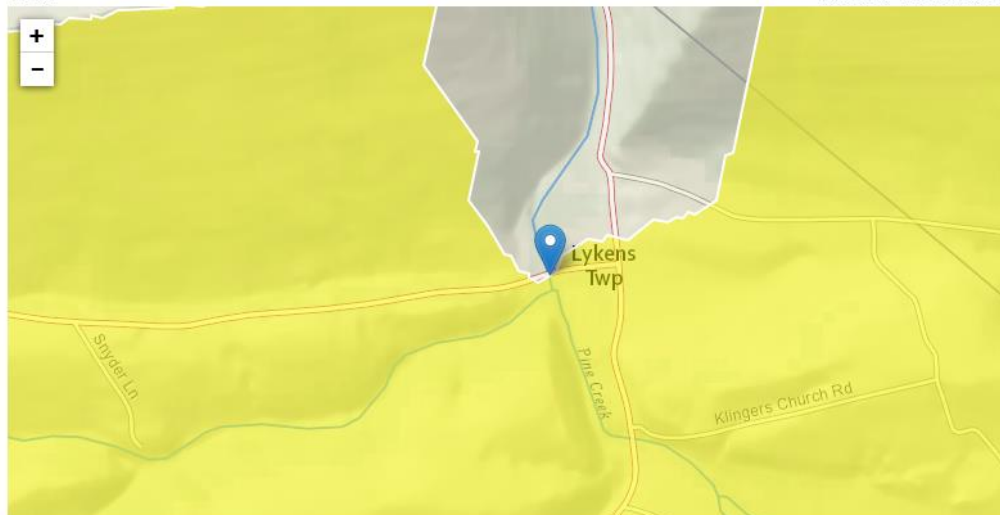
Next Confluence @RMI 0.0 Elevation 531

Clicked Point (Latitude, Longitude):

40.64317, -76.69193

Time:

2021-07-21 08:51:10

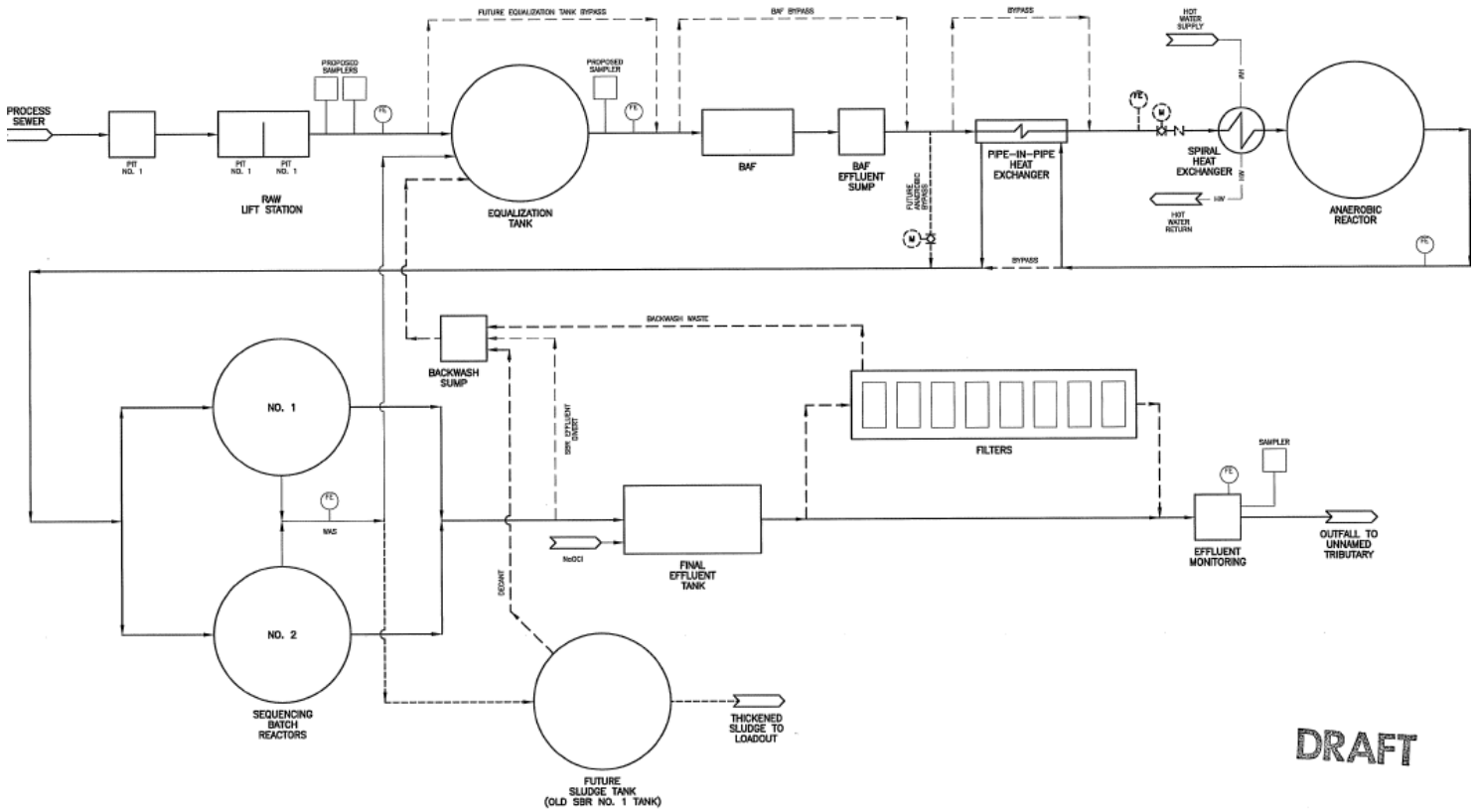


Low-Flow Statistics Parameters [Low Flow Region 2]

| Parameter Code | Parameter Name | Value | Units |
|----------------|----------------|-------|--------------|
| DRNAREA | Drainage Area | 76.3 | square miles |

The WWTP process utilizes anaerobic digestion followed by aerobic activated sludge for organic, solids, and nutrient removal. Influent and effluent flows are equalized using discrete equalization processes. Chlorine Contact is used for the Outfall 001's Disinfection. Residue is hauled to Land applications.

Process Flow Chart



DRAFT

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) .295
 Latitude 40° 39' 11.00" Longitude -76° 41' 43.00"
 Wastewater Description: Sewage and IW Process Effluent without ELG

Technology-Based Limitations

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

| Parameter | Minimum | Average Monthly | Average Weekly | IMAX | Basis |
|-----------------------------------------|---------|-----------------|------------------|--------|-------------------|
| Flow (MGD) | XXX | Report | Report Max Daily | XXX | §§ 92a.27, 92a.61 |
| CBOD5 (mg/L) | XXX | 25 | 40 | 50 | § 92a.47 |
| TSS (mg/L) | XXX | 30 | 45 | 60 | § 92a.47 |
| TRC (mg/L) | XXX | 1.0 | XXX | 2.0 | §§ 92a.47-48 |
| NH3-N (mg/L) | XXX | 25 | XXX | 50 | BPJ |
| D.O. (mg/L) | 4 | XXX | XXX | XXX | BPJ |
| pH (SU) | 6 | XXX | XXX | 9 | § 92a.47, § 95.2 |
| Total N (mg/L) | XXX | Report | XXX | XXX | § 92a.61 |
| Total P (mg/L) | XXX | Report | XXX | XXX | § 92a.61 |
| Fecal Coliform (No./100 ml) (May-Sept) | XXX | 200 Geo Mean | XXX | 1,000 | § 92a.47 |
| Fecal Coliform (No./100 ml) (Oct-April) | XXX | 2,000 Geo Mean | XXX | 10,000 | § 92a.47 |
| E. Coli (No./100 ml)* | XXX | XXX | XXX | Report | § 92a.61 |

DEP's most recent high-level strategy to address the requirements in the Chesapeake Bay TMDL, Phase 3 Watershed Implementation Plan (WIP), was finalized in 2019.

Table 7: Significant IW Facilities That Have Received Final Cap Loads.

| NPDES Permit No. | Facility | Latest Permit Issuance Date | Permit Expiration Date | Cap Load Compliance Start Date | TN Cap Load (lbs/yr) | TP Cap Load (lbs/yr) | TN Delivery Ratio | TP Delivery Ratio |
|------------------|----------------------------|-----------------------------|------------------------|--------------------------------|----------------------|----------------------|-------------------|-------------------|
| PA0009911 | Papetti's Acquisition Inc. | 12/29/16 | 12/31/21 | 10/1/13 | 8,104 | 532 | 0.961 | 0.436 |

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Analysis Results WQM 7.0

Hydrodynamics | **NH3-N Allocations** | D.O. Allocations | D.O. Simulation | Effluent Limitations

| | | | |
|------|----------------|---------------|-----------------|
| RMI | Discharge Name | Permit Number | Disc Flow (mgd) |
| 0.80 | Pap Egg | PA 009911 | 0.2950 |

| Parameter | Effluent Limit 30 Day Average (mg/L) | Effluent Limit Maximum (mg/L) | Effluent Limit Minimum (mg/L) |
|------------------|--------------------------------------|-------------------------------|-------------------------------|
| CBOD5 | 25 | | |
| NH3-N | 18.84 | 37.68 | |
| Dissolved Oxygen | | | 3 |

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

| | | | |
|-------|--------------------------------|-----|--------------------------------------|
| 4.5 | = Q stream (cfs) | 0.5 | = CV Daily |
| 0.295 | = Q discharge (MGD) | 0.5 | = CV Hourly |
| 30 | = no. samples | 1 | = AFC_Partial Mix Factor |
| 0.3 | = Chlorine Demand of Stream | 1 | = CFC_Partial Mix Factor |
| 0 | = Chlorine Demand of Discharge | 15 | = AFC_Criteria Compliance Time (min) |
| 1 | = BAT/BJ Value | 720 | = CFC_Criteria Compliance Time (min) |
| 0 | = % Factor of Safety (FOS) | | =Decay Coefficient (K) |

| Source | Reference | AFC Calculations | Reference | CFC Calculations |
|--------------|-----------|---------------------|-----------|---------------------|
| TRC | 1.3.2.iii | WLA_afc = 3.165 | 1.3.2.iii | WLA_cfc = 3.078 |
| PENTOXSD TRG | 5.1a | LTAMULT_afc = 0.373 | 5.1c | LTAMULT_cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc = 1.179 | 5.1d | LTA_cfc = 1.789 |

| Source | Effluent Limit Calculations |
|-------------------|------------------------------------------|
| PENTOXSD TRG 5.1f | AML MULT = 1.231 |
| PENTOXSD TRG 5.1g | AVG MON LIMIT (mg/l) = 1.000 BAT/BJ |
| | INST MAX LIMIT (mg/l) = 3.270 |

A "Reasonable Potential Analysis" determined no further limitations:

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.3, March 2021

Model Results Papettis Egg, NPDES Permit No. PA0009911, Outfall 001

Instructions | **Results** | RETURN TO INPUTS | SAVE AS PDF | PRINT | All | Inputs | Results | Limits

Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

| Pollutants | Mass Limits | | Concentration Limits | | | Units | Governing WQBEL | WQBEL Basis | Comments |
|------------|---------------|---------------|----------------------|-----|------|-------|-----------------|-------------|----------|
| | AML (lbs/day) | MDL (lbs/day) | AML | MDL | IMAX | | | | |
| | | | | | | | | | |



TMS PA0009911.pdf

Anti-Backsliding

Keep all existing Limits

Development of Effluent Limitations

Wastewater Description: Stormwater

Stormwater Outfalls

002 40 39 42 76 41 43 Pine Creek CWF
003 40 39 36 76 42 6 Mahantango Creek CWF
004 40 38 11 76 41 43 UNT Pine Creek CWF

| Outfall No. | Entirely Stormwater? | Drainage Area (ft ²) | % Impervious | Description of Materials/Activities in Drainage Area Exposed to Precipitation |
|-------------|-------------------------------------|----------------------------------|--------------|-------------------------------------------------------------------------------|
| 002 | <input checked="" type="checkbox"/> | 240,000 | 0.0 | Parking, Tractor Trailer Staging |
| 003 | <input checked="" type="checkbox"/> | 217,500 | 3.4 | Parking, Tractor Trailer Staging |
| 004 | <input checked="" type="checkbox"/> | 266,875 | 53.0 | Parking, Township Road, Driveway |

Technology-Based Limitations

The General Permit requirements in Appendix I are the minimum to apply to stormwater discharges associated with industrial activity from Food and Kindred Products facilities as identified by the following SIC Codes: 2011 – 2015, 2021 – 2026, 2032 – 2038, 2041 – 2048, 2051 – 2053, 2061 – 2068, 2074 – 2079, 2082 – 2087, 2091 – 2099 and 2111 – 2141.

| Parameter | Monitoring Requirements ⁽¹⁾ | | Benchmark Values |
|-----------------------------------------------|----------------------------------------------|-------------|------------------|
| | Minimum Measurement Frequency ⁽²⁾ | Sample Type | |
| pH (S.U.) | 1 / 6 months | Grab | XXX |
| 5-Day Biochemical Oxygen Demand (BOD5) (mg/L) | 1 / 6 months | Grab | XXX |
| Total Suspended Solids (TSS) (mg/L) | 1 / 6 months | Grab | 100 |
| Chemical Oxygen Demand (COD) (mg/L) | 1 / 6 months | Grab | 120 |
| Nitrate + Nitrite-Nitrogen (mg/L) | 1 / 6 months | Grab | XXX |
| Oil and Grease (mg/L) | 1 / 6 months | Grab | 30 |

SECTOR-SPECIFIC BMPs

In addition to the BMPs contained in Part C II of PaDEP's current General Permit, the permittee shall implement, at a minimum, all of the following BMPs that are applicable to the processes in place at the facility.

- A. Store all dry raw materials, additives and products in enclosed/covered areas; install dust collection and control system for silos, holding bins, etc.
- B. Store liquids in tanks with secondary containment and leak detection, where appropriate.
- C. Minimize raw water usage for washing products and raw materials; recycle wash water where determined to be feasible.
- D. Practice good housekeeping to limit spillage/leakage of residue and provide for prompt clean-up; dispose of rotting fruit and produce promptly.
- E. Manage inventories to ensure only short-term supplies of raw materials and products are stored on-site.
- F. Limit use of pesticides, insecticides and rodenticides to the maximum extent possible; apply during dry conditions; investigate non- (or least) hazardous alternatives.

- G. Wherever possible, enclose/cover animal holding areas; install run-on controls and collect and treat run off, as appropriate.
- H. Practice good housekeeping by containing and promptly removing and managing animal manure.

Compliance History

DMR Data for Outfall 001 (from May 1, 2020 to April 30, 2021)

| Parameter | APR-21 | MAR-21 | FEB-21 | JAN-21 | DEC-20 | NOV-20 | OCT-20 | SEP-20 | AUG-20 | JUL-20 | JUN-20 | MAY-20 |
|------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flow (MGD) Average Monthly | 0.1137 | 0.1199 | 0.1163 | 0.1284 | 0.1192 | 0.1144 | 0.1157 | 0.1045 | 0.1123 | 0.0897 | 0.0803 | 0.0893 |
| Flow (MGD) Daily Maximum | 0.1337 | 0.1477 | 0.1397 | 0.1564 | 0.1324 | 0.1352 | 0.1323 | 0.1322 | 0.1354 | 0.1158 | 0.1165 | 0.1229 |
| pH (S.U.) Minimum | 7.75 | 7.65 | 7.61 | 7.66 | 7.70 | 7.85 | 7.89 | 7.90 | 7.93 | 7.89 | 7.88 | 7.78 |
| pH (S.U.) Maximum | 8.04 | 7.99 | 7.98 | 7.97 | 7.99 | 8.04 | 8.02 | 8.07 | 8.22 | 8.03 | 7.97 | 8.01 |
| TRC (mg/L) Average Monthly | 0.76 | 0.68 | 0.61 | 0.89 | 0.70 | 0.72 | 0.69 | 0.59 | 0.51 | 0.53 | 0.72 | 0.65 |
| TRC (mg/L) Instantaneous Maximum | 1.19 | 1.90 | 0.94 | 1.37 | 1.02 | 1.07 | 1.18 | 0.86 | 0.97 | 0.88 | 1.55 | 0.98 |
| CBOD5 (lbs/day) Average Monthly | 2.5 | 8.0 | 2.3 | 2.4 | 2.7 | 2.6 | 2.3 | 2.4 | 2.0 | 2.1 | 5.6 | 1.7 |
| CBOD5 (lbs/day) Daily Maximum | 3.3 | 22.8 | 2.9 | 3.0 | 3.9 | 3.8 | 3.3 | 3.1 | 2.2 | 2.6 | 15.3 | 2.0 |
| CBOD5 (mg/L) Average Monthly | 2.4 | 7.8 | 2.2 | 2.3 | 2.8 | 2.5 | 2.5 | 2.5 | 2.0 | 2.7 | 7.1 | 2.0 |
| CBOD5 (mg/L) Daily Maximum | 3.2 | 22.5 | 2.7 | 2.6 | 4.0 | 3.4 | 3.7 | 3.1 | 2.1 | 3.1 | 17.5 | 2.0 |
| TSS (lbs/day) Average Monthly | 5.3 | 14.8 | 4.7 | 4.3 | 5.6 | 6.0 | 12.2 | 9.1 | 5.0 | 6.5 | 5.4 | 4.9 |
| TSS (lbs/day) Daily Maximum | 7.1 | 35.8 | 5.0 | 4.6 | 7.1 | 11.7 | 32.0 | 16.1 | 5.7 | 8.2 | 7.3 | 5.9 |
| TSS (mg/L) Average Monthly | 5.2 | 14.3 | 4.5 | 4.0 | 5.8 | 5.8 | 13.4 | 9.4 | 5.2 | 8.1 | 7.4 | 6.1 |
| TSS (mg/L) Daily Maximum | 6.8 | 35.3 | 4.5 | 4.0 | 7.2 | 10.4 | 36.0 | 16.0 | 6.0 | 11.2 | 9.2 | 9.0 |
| Oil and Grease (mg/L) Average Monthly | 5.4 | 5.1 | < 4.9 | < 4.9 | 5.8 | < 4.9 | 5.3 | 5.7 | 5.3 | 5.4 | 5.6 | 6.0 |
| Oil and Grease (mg/L) Daily Maximum | 6.8 | 5.7 | < 4.9 | < 4.9 | 9.5 | < 4.9 | 5.8 | 8.0 | 6.7 | 6.9 | 6.0 | 8.6 |
| Fecal Coliform (CFU/100 ml) Geometric Mean | 3 | 3 | 1 | < 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Fecal Coliform (CFU/100 ml) Instantaneous Maximum | 400 | 45 | 3 | < 1 | 1 | 1 | 1 | 1 | 2 | 10 | 1 | 1 |
| Nitrate-Nitrite (mg/L) Average Monthly | 157.7 | 141.1 | 153.6 | 159.0 | 156.3 | 165.9 | 195.1 | 185.1 | 179.9 | 172.1 | 151.3 | 163.4 |
| Nitrate-Nitrite (lbs) Total Monthly | 4388 | 4340 | 3910 | 5467 | 4809 | 5085 | 5654 | 5189 | 5192 | 4397 | 2953 | 3625 |
| Total Nitrogen (mg/L) Average Monthly | 158.8 | 143.6 | 154.8 | 160.0 | 157.2 | 167.4 | 196.5 | 186.4 | 180.6 | 177.0 | 153.0 | 166.2 |

| | | | | | | | | | | | | |
|---------------------------------------------------------------|------|------|------|------|------|------|------|-------------|------|------|------|------|
| Total Nitrogen (lbs) Effluent Net Total Monthly | 4418 | 4417 | 3939 | 5501 | 4837 | 5130 | 5694 | 5225 | 5213 | 4535 | 2989 | 3689 |
| Total Nitrogen (lbs) Total Monthly | 4418 | 4417 | 3939 | 5501 | 4837 | 5130 | 5694 | 5225 | 5213 | 4535 | 2989 | 3689 |
| Total Nitrogen (lbs) Effluent Net Total Annual | | | | | | | | 8103 | | | | |
| Total Nitrogen (lbs) Total Annual | | | | | | | | 66931 | | | | |
| Ammonia (lbs/day) Average Monthly | 0.35 | 0.33 | 0.19 | 0.21 | 0.20 | 0.25 | 0.12 | 0.10 | 0.10 | 0.26 | 0.16 | 0.21 |
| Ammonia (lbs/day) Daily Maximum | | | | | | | | 0.13 | 0.15 | 0.81 | 0.49 | 0.58 |
| Ammonia (mg/L) Average Monthly | 0.40 | 0.35 | 0.21 | 0.19 | 0.21 | 0.25 | 0.13 | 0.10 | 0.11 | 0.30 | 0.23 | 0.27 |
| Ammonia (mg/L) Daily Maximum | | | | | | | | 0.13 | 0.19 | 0.85 | 0.56 | 0.62 |
| Ammonia (lbs) Total Monthly | 10 | 10 | 5 | 6 | 6 | 8 | 4 | 3 | 3 | 8 | 5 | 6 |
| Ammonia (lbs) Total Annual | | | | | | | | 132 | | | | |
| TKN (mg/L) Average Monthly | 1.1 | 2.5 | 1.2 | 1.0 | 0.9 | 1.5 | 1.4 | 1.3 | 0.8 | 4.9 | 1.8 | 2.8 |
| TKN (lbs) Total Monthly | 30 | 77 | 28 | 34 | 28 | 1.5 | 40 | 36 | 21 | 138 | 36 | 64 |
| Total Phosphorus (lbs/day) Average Monthly | 22.3 | 22.9 | 21.1 | 22.3 | 21.5 | 22.3 | 24.6 | 25.7 | 25.0 | 19.9 | 18.2 | 25.1 |
| Total Phosphorus (mg/L) Average Monthly | 24.0 | 23.1 | 22.7 | 20.2 | 21.7 | 21.9 | 25.9 | 27.5 | 26.8 | 24.2 | 27.6 | 35.0 |
| Total Phosphorus (lbs) Effluent Net Total Monthly | 669 | 709 | 591 | 690 | 666 | 668 | 762 | 772 | 774 | 618 | 546 | 778 |
| Total Phosphorus (lbs) Total Monthly | 669 | 709 | 591 | 690 | 666 | 668 | 762 | 772 | 774 | 618 | 546 | 778 |
| Total Phosphorus (lbs) Effluent Net Total Annual | | | | | | | | 530 | | | | |
| Total Phosphorus (lbs) Total Annual | | | | | | | | 10619 | | | | |