

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

**NPDES PERMIT FACT SHEET
RE-DRAFT**

Application No. PA0035092
APS ID 4675
Authorization ID 1110775

Applicant and Facility Information

Applicant Name	<u>Tyson Poultry, Inc.</u>	Facility Name	<u>Tyson Poultry Inc. New Holland</u>
Applicant Address	<u>403 S Custer Avenue</u> <u>New Holland, PA 17557-9221</u>	Facility Address	<u>403 S Custer Avenue</u> <u>New Holland, PA 17557-9221</u>
Applicant Contact	<u>Julie Bard-Ziegler</u>	Facility Contact	<u>Julie Bard-Ziegler</u>
Applicant Phone	<u>(717) 355-5437</u>	Facility Phone	<u>(717) 355-5437</u>
Client ID	<u>1975</u>	Site ID	<u>252308</u>
SIC Code	<u>2015</u>	Municipality	<u>New Holland Borough</u>
SIC Description	<u>Manufacturing - Poultry Slaughtering And Processing</u>	County	<u>Lancaster</u>
Date Published in PA Bulletin	<u>April 3, 2021</u>	EPA Waived?	<u>No</u>
Comment Period End Date	<u>May 3, 2021</u>	If No, Reason	<u>Significant CB Discharge</u>
Purpose of Application	<u>Application for a renewal of an NPDES permit for discharge of treated Industrial</u>		

Internal Review and Recommendations

A draft NPDES permit was issued on March 16, 2021, and was published in the PA Bulletin on April 3, 2021. Comments were received from Tyson Poultry, Inc. on April 30, 2021, and are attached below. DEP's response to the comments are as follows:

- As Tyson has indicated that Bromide would not be present in the discharge; Bromide, Chloride, and Sulfate monitoring has been removed from the permit. Additionally, DEP is no longer requiring monitoring for these special parameters.
- The minimum measurement frequency for Total Nitrogen and Total Phosphorus will remain 1/week, which is consistent with the existing permit.
- The coordinates for stormwater outfalls 002, 003, and 004 have been updated in the NPDES Permit to reflect the coordinates provided in the comments.
- The ammonia limits have been revised to the existing limits of 2.0 mg/l monthly average, 4.0 mg/l daily maximum, and 5.0 mg/l instantaneous maximum. The WQM modeling determined an average monthly limit of 1.77 mg/l monthly average was needed. The limit will be rounded to 2.0 mg/l monthly average, which is consistent with how the limit has been handled in past renewals.
- After discussions with Tyson Poultry on 2/16/22, it was discussed that additional temperature sampling data would be requested before Temperature limits were added to the permit. The limits were developed on the basis of readings taking during past DEP inspections, and the temperature spreadsheet used default data. Therefore, the limits have been removed and monitoring requirements have been added for Mill Creek, upstream of the discharge to Mill Creek, and downstream of the discharge to Mill Creek. The start of monitoring will begin 6 months after permit issuance to allow time for the sampling locations to be established. This data will be used during the next permit renewal to evaluate the necessity of any limits for Temperature.

Approve	Return	Deny	Signatures	Date
X			Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	March 31, 2022
X			Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	April 6, 2022
X			Maria D. Bebenek Maria D. Bebenek, P.E. / Program Manager	April 6, 2022

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6. The TRC limit has been added back to the permit. Tyson Poultry requested this limit be added back in case of the need of backup disinfection.
7. The UV monitoring requirement will remain in the NPDES permit, but DEP has changed the requirement from UV intensity to UV transmittance.
8. DEP notes the comment on chemical additives.

Additionally, Tyson Poultry, Inc. sent an email on 2/17/22 clarifying their boiler project. In the compliance history portion of the draft fact sheet, it was noted on the 2/2/2016 inspection that a boiler was onsite to be installed. Tyson noted that a pipe had been delivered, but there was no boiler onsite, nor was plumbing or piping installed.

Internal Review and Recommendations



April 26, 2021

Mr. Benjamin Lockwood
Environmental Engineering Specialist, Pennsylvania DEP
NDPES Permit for Tyson Poultry #PA0035092

Mr. Lockwood:

Tyson Poultry, Inc. New Holland facility (Tyson) has received the Draft Permit #PA0035092 for the New Holland, PA location. Tyson has the following comments in order of those received Pennsylvania Department of Environmental Protection (DEP) on the Draft Permit Fact Sheet.

Comment 1: Bromide Monitoring

- Bromide Monitoring – Tyson would ask that the Bromide monitoring be removed from the permit as Tyson does not expect any Bromine to be present in the effluent stream. Testing has indicated that Bromine is not present (<0.21 mg/l detection limit of test method used) at concentrations that would have any negative effects on downstream water sources.

Comment 2: Total Nitrogen and Total Phosphorous sampling

- Minimum Measurement Frequencies for Total Nitrogen and Total Phosphorous in the wording of the permit is stated as twice weekly while the actual table for Outfall 1 states once weekly. Tyson requests that sampling continue with once weekly as we have shown compliance with regards to these constituents on an ongoing basis.

Comment 3: Outfall Coordinates

- Outfall #2 Coordinates should be changed to 40°5'31",76°5'11" from the existing Latitude 40°5'27",Longitude 76°5'55".

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- Outfall #3 Coordinates should be changed to 40°5'41,76°5'02" from the existing Latitude 40°5'55", Longitude 76° 5'55".
- Outfall #4 Coordinates should be changed to 40°5'42", 76°5'13" from the existing Latitude 40°5'15", Longitude 76° 5'15".

Comment 4: Ammonia Limits

- Ammonia Limits from May 1 through October were changed due to rounding considerations and Tyson requests that the values stay the same from the existing permit. Technology Based Limitations and DEP's SOP No. BCW-PMT-032 states at least one decimal point so it is requested that limits from May 1-October 31 be 2.0 mg/l Monthly Average, 4.0 mg/ml Daily Maximum, and 5.0 mg/l Instantaneous Maximum.

Comment 5: Temperature Limits

- Tyson requests that monthly minimum and maximum temperature limits be removed from the permit. Tyson discharges into an unnamed tributary that flows into Mill Creek. Tyson contributes both flow and temperature deviations into Mill Creek. A similar situated permit for New Holland Borough allows for their facility to discharge into Mill Creek. New Holland Borough also discharges to Mill Creek at very similar temperature to Tyson due to the activated sludge process used at each facility. The New Holland Borough permit was renewed recently with no temperature limits required. Tyson requests that our permit be issued without a temperature limit.

Tyson does not believe the mathematical modeling of Warm Water Fisheries is indicative of the actual stream temperatures or aquatic health specific to the Mill Creek. Furthermore, it is likely the ambient temperature fluctuations will cause the temperature in the stream to be inconsistent with the mathematical models.

- Sufficient data does not appear to be available to demonstrate that a temperature limit is necessary or beneficial for this discharge. The facility provides a consistent discharge and has done so for several decades; there is

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potential that the new temperature limits proposed for the facility permit could negatively impact stream health.

- The cost and feasibility of meeting the proposed temperature limits is prohibitively expensive without clear demonstration that such limits are necessary for stream health. If an alternative thermal effluent limit is not granted, there will be widespread financial ramifications for the facility and beyond to the greater Lancaster County area.
- If not removed, Tyson requests a variance under Section 316(a) of the Clean Water Act. The facility requests the time and opportunity to establish alternate thermal effluent limitations through demonstration that the proposed effluent temperature limits are more stringent than necessary for the receiving water body.

Comment 6: Total Residual Chlorine Monitoring

- Total Residual Chlorine Monitoring Tyson requeststhis monitoring be continued in the new permit at the current permit levels of 0.16 mg/L Monthly Average and 0.52 mg/L Instantaneous Maximum to allow the facility to have effective backup disinfection. This will only be measured when the plant is operating the Chlorination/Dechlorination system and not during UV treatment.

Comment 7: UV Monitoring

- UV Monitoring, Tyson requests that this be removed from the new permit as control parameters around Fecal Coliform are already in place and are a direct test for operational efficiency and control of the UV system. If not removed, Tyson requests that in place of UV Intensity measurement that DEP allow use

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of the UV Transmittance and make the change in the permit per DEP's SOP No. BPNPSM-PMT-032 which allows UV Transmittance, Dosage, or Intensity.

Comment 8: Chemical Additives

- The New Holland facility is currently working with Trinity Consultants, Inc to get all necessary paperwork completed and submitted for the approval process.

Tyson requests a meeting with DEP to discuss our concerns regarding the draft permit as addressed in this letter.

Thank you for the opportunity to discuss the above changes and we look forward to a response from DEP.

Regards,

A handwritten signature in black ink, appearing to read 'Julie Bard-Ziegler', written in a cursive style.

Julie Bard-Ziegler
Complex Environmental Manager
New Holland Complex

A draft NPDES permit was issued on October 16, 2020, and was published in the PA Bulletin on October 31, 2020. Comments were received from the Environmental Protection Agency (EPA) Region III on November 16, 2020, and from Spotts, Stevens and McCoy on behalf of Manheim Area Water and Sewer Authority on December 1, 2020. Copies of the comments are included at the end of this fact sheet. EPA offered the following comments: