

Application Type Renewal
 Facility Type Industrial
 Major / Minor Minor

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

Application No. PA0062618
 APS ID 366592
 Authorization ID 1270648

Applicant and Facility Information

Applicant Name	<u>Bethlehem Authority</u>	Facility Name	<u>Bethlehem Water Treatment Plant</u>
Applicant Address	<u>10 East Church Street</u> <u>Bethlehem, PA 18018-6025</u>	Facility Address	<u>355 Granger Road</u> <u>Northampton, PA 18067-9111</u>
Applicant Contact	<u>Stephen Repasch, Executive Director</u>	Facility Contact	<u>Edward J. Boscola,</u> <u>Director of Water and Sewer Resources</u>
Applicant Phone	<u>(610) 865-7090</u>	Facility Phone	<u>(610) 865-7207</u>
Client ID	<u>74720</u>	Site ID	<u>453124</u>
SIC Code	<u>4941</u>	Municipality	<u>Lehigh Township</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Northampton</u>
Date Application Received	<u>April 15, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 29, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit to discharge industrial wastewater.</u>		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge 0.047 MGD of treated process wastewater (from filter backwash and rinse, flocculator basin drainage, sample sink and analyzer drains, plant floor drains, and plant overflow) from the Bethlehem Water Treatment Plant into an Unnamed Tributary to Indian Creek, a CWF-MF (Cold-Water Fishes, Migratory Fishes) designated receiving stream in State Water Plan Basin 2-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The Bethlehem Water Treatment Plant treats an average of 14 MGD of surface water from the Wild Creek Reservoir. Suspended materials in the raw water and solids generated during pretreatment are removed by clarification and filtration. The resulting solids and liquids are stored in on-site lagoons. The lagoon supernatant is recycled back to the head of the plant, while sediments are disposed off-site by a contract hauler. In emergency conditions (e.g. lagoon overflow), clarified water from the lagoons can be discharged to Outfall 001. However, under normal plant operations no wastewater is discharged. No discharge has occurred since February 1999.

Limits for pH, Total Suspended Solids (TSS), Total Iron, Total Aluminum, and Total Manganese are BPT technology-based limits from the "Technology-Based Control Requirements for Water Treatment Plant Wastes" (technical guidance document 362-2183-003). These effluent limits are the same as the previous permit.

The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends stricter limitations than the previous permit. Since no discharge typically occurs, these new limits will be applied at the permit effective date.

All monitoring frequencies have been maintained from the previous permit.

The existing permit expired on February 29, 2020 and the application for renewal was received on time.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	May 28, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	6-16-20

Summary of Review

A Water Management System Inspection query indicated that on September 18, 2018 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.



Watershed Info -
Bethlehem WTP.pdf



TRC_CALC -
Bethlehem WTP.pdf



Doc No.
362-2183-003 Exeuti

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>0.047</u>
Latitude	<u>40° 44' 23.13"</u>	Longitude	<u>-75° 30' 7.60"</u>
Quad Name	<u>Cementon</u>	Quad Code	<u>1341</u>
Wastewater Description: <u>IW Process Effluent without ELG</u>			
Receiving Waters	<u>Unnamed Tributary to Indian Creek (CWF, MF)</u>	Stream Code	<u>3665</u>
NHD Com ID	<u>26293231</u>	RMI	<u>0.73</u>
Drainage Area	<u>0.083</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0083</u>	Q ₇₋₁₀ Basis	<u>State-wide default</u>
Elevation (ft)	<u>543</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Lehigh County Authority</u>		
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>-</u>
PWS RMI	<u>17.2</u>	Distance from Outfall (mi)	<u>≈ 11.4</u>