pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0064220**
Facility Type	**Municipal**	APS ID	**612850**
Major / Minor	**Minor**	Authorization ID	**1323455**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Twin County Joint Municipal Authority**	Facility Name	**Twin County Joint Municipal Authority WWTP**
Applicant Address	PO Box 636	Facility Address	309 Mahanoy Street
	Nuremberg, PA 18241-0636		Nuremburg, PA 18241
Applicant Contact	William Lescowitch	Facility Contact	Eddie Gregory
Applicant Phone	(570) 384-0774	Facility Phone	(570) 708-2151
Client ID	191934	Site ID	601544
Ch 94 Load Status	Not Overloaded	Municipality	North Union Township
Connection Status	-	County	Schuylkill
Date Application Received	August 11, 2020	EPA Waived?	Yes
Date Application Accepted	September 21, 2020	If No, Reason	-

Purpose of Application: Renewal of an existing NPDES permit to discharge up to 0.130 MGD of treated sewage.

Summary of Review

The applicant is requesting renewal of NPDES Permit No. PA0064220 to authorize a discharge of 0.130 MGD of treated sewage from a minor sewage treatment plant into Tomhicken Creek (CWF, MF) in State Water Plan Watershed 05-E. Tomhicken Creek does not have an existing use classification. The 2020 Pennsylvania Integrated Water Quality Monitoring and Assessment Report lists Tomhicken Creek at the outfall as 'Attaining' for Aquatic Life. A few hundred feet upstream of the outfall, Tomhicken Creek is Impaired for Aquatic Life (Source: AMD, Cause: pH). The discharge is not expected to affect public water supplies.

A Total Maximum Daily Load (TMDL) report for Catawissa Creek Watershed was approved by EPA on April 9, 2003, and it states all stream impairments are a result of acid mine drainage from abandoned coal mines. The TMDL addresses the following metals associated with AMD: Aluminum, Iron and Manganese; and low pH. This TMDL does not assign point source waste load allocations to any sewage treatment facilities and this discharge is not expected to contribute to the AMD impairment.

In 2019, the annual average flow was 0.055 MGD. The highest monthly average flow in 2019 occurred in April, when the facility discharged 0.074 MGD. Influent is screened and diverted to one of two parallel treatment trains, which each consist of a modified SBR, a holding tank, and an ultraviolet disinfection unit. After disinfection, effluent flows by gravity and discharges into Tomhicken Creek approximately 1 mile from the facility.

The outfall location was briefly investigated. The permittee and their engineer confirmed that the facility discharges to Tomhicken Creek approximately 1 mile from the facility, rather than to Raccoon Creek which is adjacent to the facility.

Approve	Deny	Signatures	Date
X		Joseph Cherinko (signed) Joseph Cherinko, P.E. / Environmental Engineering Specialist	April 30, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	5-4-21

Summary of Review

A Point of First Use study was conducted by the Department on February 24, 2021. No discharge pipes into Raccoon Creek were apparent. The outfall into Tomhicken Creek is not believed to be visible, but 'bubbling' on the surface of the stream was observed which was believed to indicate a discharge from the facility. The study concluded that the outfall location contains an established macroinvertebrate community best described as 'fair', the stream is perennial, and water quality should be maintained according to applicable regulations.

All existing monitoring frequencies conform to Table 6-3 of DEP's *Technical Guidance for the Development and Specification of Effluent Limitations;* they remain unchanged.

WQM 7.0 v1.1 was used to determine limits for Ammonia-Nitrogen, CBOD5, and Dissolved Oxygen. The modeling results support retaining the existing limits.

The Department's Toxic Management Spreadsheet v1.3 was used to determine monitoring requirements for toxic parameters. Monitoring for Total Copper and Total Zinc is added to the permit. Sampling shall be performed weekly, as set forth in Table 6-3 of DEP's *Technical Guidance for the Development and Specification of Effluent Limitations*.

Annual monitoring for E. Coli has been added to the permit in accordance with the Department's *Establishing Effluent Limitations for Individual Sewage Permits*.

Language pertaining to Solids Management for Non-Lagoon Treatment Systems has been added to Part C of the permit.

The WMS query 'Open Violations by Client Report' was performed; the applicant has 2 open violations. These open violations were detailed in an NOV issued to the permittee on December 7, 2020. Violation #911235 concerns a weekly average $CBOD_5$ exceedance in July 2018.

Violation ID	Violation
911234	NPDES – Failure to submit an individual permit application at least 180 days prior to commencing a discharge.
911235	NPDES – Violation of effluent limits in Part A of permit.

The NPDES permit expired on January 31, 2021. The renewal application was due by August 4, 2020; it was received late on August 11, 2020. An administrative extension letter was issued on February 4, 2021.

Sludge use and disposal description and location(s): Sludge disposed at the Greater Hazleton Joint Sewer Authority WWTP.

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.	001	Design Flow (MGD)	.130
Latitude	40º 55' 32"	Longitude	-76º 10' 30"
Quad Name	Nuremburg	Quad Code	1136
Wastewater Description:	Sewage Effluent		

Receiving Waters	Tomhicken Creek (CWF, MF)	Stream Code	27567
NHD Com ID	65641291	RMI	3.45
Drainage Area	16.7 mi^2	Yield (cfs/mi^2)	0.165
Q_{7-10} Flow (cfs)	2.75	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	~910’	Slope (ft/ft)	-
Watershed No.	5-E	Chapter 93 Class.	CWF, MF
Existing Use		Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	Final	Name	Catawissa Creek

Background/Ambient Data		Data Source
pH (SU)	6.9	POFU Study (Field Visit on 2/24/21, Memorialized on 4/2/21).
Temperature (°F)	40	‘’
Hardness (mg/L)	47	‘’
Other:	See POFU Study	‘’

Changes Since Last Permit Issuance: -

Other Comments: Refer to ‘Point of First Use’ study for sampling results of ~40 water quality parameters.

Treatment Facility Summary

Treatment Facility Name: Twin County Joint Municipal Authority

WQM Permit No.	Issuance Date
5403401	May 8, 2003
0043044	UNK

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Modified SBR	Ultraviolet	0.055 (2019)

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.130	230	Not Overloaded	Aerated Holding Tank	Hauled to GHJSA

Changes Since Last Permit Issuance: -

Other Comments: -