

Application Type Amendment, Major  
 Facility Type Municipal  
 Major / Minor Major

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0114821 A-2  
 APS ID 1051658  
 Authorization ID 1376178

**Applicant and Facility Information**

Applicant Name	<u>Gregg Township Municipal Authority Union County</u>	Facility Name	<u>Gregg Township Municipal Authority Sewer System STP</u>
Applicant Address	<u>16436 US Route 15 Allenwood, PA 17810-9137</u>	Facility Address	<u>16436 US Route 15 Allenwood, PA 17810-9137</u>
Applicant Contact	<u>Jason Koch</u>	Facility Contact	<u>Jason Koch</u>
Applicant Phone	<u>(570) 538-3313</u>	Facility Phone	<u>(570) 538-3313</u>
Client ID	<u>73424</u>	Site ID	<u>245502</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Gregg Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Union</u>
Date Application Received	<u>November 9, 2021</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>November 19, 2021</u>	If No, Reason	<u>Major Facility, Significant CB Discharge</u>
Purpose of Application	<u>Nutrient load transfer from Brady Township SE WWTP.</u>		

**Summary of Review**

This major NPDES amendment has been submitted by Gregg Township Municipal Authority (GTMA) to include nutrient credits for the connection of loads from the former Brady Township Southeast WWTP to the GTMA Chesapeake Bay Cap Load.

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
✓		<i>Keith C. Allison</i> Keith C. Allison / Project Manager	January 25, 2022
✓		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 25, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>1.26</u>
Latitude	<u>41° 6' 20.16"</u>	Longitude	<u>-76° 53' 23.30"</u>
Quad Name	<u>Allenwood, PA</u>	Quad Code	<u>1030</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to West Branch Susquehanna River (WWF, MF)</u>	Stream Code	<u>18668</u>
NHD Com ID	<u>66917989</u>	RMI	<u>18.02</u>
Drainage Area	<u>6646 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.1224</u>
Q <sub>7-10</sub> Flow (cfs)	<u>791</u>	Q <sub>7-10</sub> Basis	<u>Gauge 01553500, West Branch Susquehanna River at Lewisburg (1968-2008)</u>
Elevation (ft)	<u>448.5</u>	Slope (ft/ft)	<u>0.00052</u>
Watershed No.	<u>10-D</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>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>PCBs</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status	<u>Final</u>	Name	<u>West Branch Susquehanna River</u>
Nearest Downstream Public Water Supply Intake	<u>PA American Water Company at Milton, PA</u>		
PWS Waters	<u>West Branch Susquehanna River</u>	Flow at Intake (cfs)	<u>9.28</u>
PWS RMI	<u>108</u>	Distance from Outfall (mi)	<u>Approx. 7</u>

Changes Since Last Permit Issuance: The above stream and flow characteristics were determined for a previous NPDES renewal in 2019 and remain appropriate.

Other Comments: This discharge is not expected to be affecting the above-listed impairment for PCBs in the River.

The listed West Branch Susquehanna River TMDL is for impairment primarily from metals from AMD upstream in the watershed. While the TMDL covers the entire West Branch watershed, the lowest reach of the impairment by AMD ends at the confluence of the River with Pine Creek approximately 45 miles upstream from this discharge. The previous renewal application sampling for the discharge showed levels for the three metals typically associated with AMD impairment (Aluminum, Iron and Manganese) to all be under their respective instream criteria.

No downstream water supply is expected to be affected by this discharge at this time with the limitations and monitoring proposed.

**Compliance History**

A query in WMS found the open violations in eFACTS in the attached table for Gregg Township Municipal Authority.

**Chesapeake Bay/Nutrient Requirements**

A portion of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the Water Pollution Control Act, 33 U.S.C. §1313(d). Total Nitrogen and Total Phosphorus cap loads have been established for significant dischargers in Pennsylvania to reduce the total nutrient load to the Bay and meet State of Maryland Water Quality Standards. The Gregg Township Municipal Authority facility is considered a Phase 1, Significant Chesapeake Bay discharger. Nutrient cap loads have previously been established for this facility pursuant to the Phase III Watershed Implementation Plan. This NPDES permit was previously amended in 2020 to transfer loads from the former White Deer Sewage Treatment Plant to GTMA.

The Brady Township SE facility, formerly discharging under NPDES Permit No. PA0228435 was converted to a pump station to convey all flows to the GTMA facility and ceased operating in July 2021. NPDES Permit No. PA0228435 was terminated on November 3, 2021.

Nutrient data was gathered for the Brady Township SE facility from 2017-2020 under PA0228435. The average nutrient loads determined from the NPDES sampling were 0.40 lbs/day of TN and 0.08 lbs/day of TP. These values convert to annual values of 146 lbs/day of TN and 28 lbs/day of TP and will now be included in the GTMA Cap Loads consistent with the Phase III Wastewater Supplement.

The discharge's existing and new cap loadings as well as the actual Total Nitrogen and Total Phosphorus loadings for the past two cycle years are listed in the table below. The permittee has previously purchased Total Phosphorus credits to meet the Cap Loads as seen in the 2019-2020 compliance year.

<b>Nutrient</b>	<b>Total Nitrogen</b>	<b>Total Phosphorus</b>
<b>Existing Nutrient Cap Loads for PA0114821</b>	24,155	3,250
<b>Previous Cap Load Additions for connection of White Deer Run Facility (Included in existing Cap Load)</b>	(1,142)	(182)
<b>Cap Load Additions for connection of Brady Township SE Facility</b>	146	28
<b>Proposed New Cap Loads for PA0114821</b>	24,301	3278
<b>10/1/20 – 9/30/21 Total Mass Load</b>	<11,950	<2,437
<b>10/1/20 – 9/30/21 Credits Purchased</b>	---	---
<b>10/1/20 – 9/30/21 Net Mass Load</b>	<11,950	<2,437
<b>10/1/19 – 9/30/20 Total Mass Load</b>	<10,667	3,674
<b>10/1/19 – 9/30/20 Credits Purchased</b>	---	608
<b>10/1/19 – 9/30/20 Net Mass Load</b>	<10,667	3,066

**e. Coli**

In addition to the changes to the Chesapeake Bay loadings, consistent with changes to Chapter 93 of the Department's regulations published in August 2021 e. Coli monitoring is now being required for domestic wastewater discharges. Therefore, this permit will now include monthly e. Coli monitoring.

**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.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	263	420	XXX	25	40	50	2/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Suspended Solids	315	473	XXX	30	45	60	2/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/week	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
e. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: e. Coli monitoring is now being included as mentioned above.

**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.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 002

Other Comments: No changes are proposed for Outfall 002 in this amendment.

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, to comply with Pennsylvania's Chesapeake Bay Tributary Strategy.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum		
Ammonia--N	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Kjeldahl--N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Net Total Nitrogen	Report	24301	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	3278	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: Outfall 001

Other Comments: Total Cap Loads for Total Nitrogen and Total Phosphorus have been changed as noted above.

Attachment:

- List of Open Violations in eFACTS for Gregg Township Municipal Authority, Union County

CLIENT	PF_ID	FACILITY	INSP_PROGRAM	PROGRAM_SPECIFIC_ID	INSP_ID	VIOLATION_ID	VIOLATION_DATE	VIOLATION_CODE	VIOLATION	PF_INSPECTOR
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3231066	925670	44414	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3231066	926095	44414	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3242856	927912	44438	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3242856	927913	44438	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3251109	929807	44453	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3251109	929808	44453	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3251109	929809	44453	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3251109	929810	44453	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291301	938412	44536	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291301	938413	44536	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291361	938415	44537	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291361	938420	44537	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291855	938506	44538	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3291855	938507	44538	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3304423	941194	44567	601CAUSEPOLL	Polluting substance(s) allowed to discharge into Waters of the Commonwealth.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	851360	GREGG TWP MA US15 LEACHATE RELEASE	Environmental Cleanup & Brownfields	851360	3304423	941195	44567	601R.301	Residual Waste is mismanaged.	CICCONE,JOHN
GREGG TWP MUNI AUTH UNION CNTY	250754	GREGG TWP MUNICIPAL AUTHORITY STP	WPC NPDES	PA0114821	3004911	878730	43892	92A.44	NPDES - Violation of effluent limits in Part A of permit	SPRINGER,JOHN