pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Amendment, Major**	Application No.	**PA0114821**
Facility Type	**Municipal**	APS ID	**1023971**
Major / Minor	**Major**	Authorization ID	**1328259**

Applicant and Facility Information

Applicant Name	**Gregg Township Municipal Authority Union County**	Facility Name	**Gregg Township Municipal Authority Sewer System STP**
Applicant Address	16436 US Route 15	Facility Address	16436 US Route 15
	Allenwood, PA 17810-9137		Allenwood, PA 17810-9137
Applicant Contact	Jason Koch	Facility Contact	Jason Koch
Applicant Phone	(570) 538-3313	Facility Phone	(570) 538-3313
Client ID	73424	Site ID	245502
Ch 94 Load Status	Not Overloaded	Municipality	Gregg Township
Connection Status	No Limitations	County	Union
Date Application Received	September 22, 2020	EPA Waived?	No
Date Application Accepted	September 30, 2020	If No, Reason	Major Facility, Significant CB Discharge

Purpose of Application: Amendment to transfer nutrient loads from the former White Deer Run Sewage Treatment Plant to GTMA's WWTP.

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 White Deer Run Sewage Treatment Facility.

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
✓		*Keith C. Allison* Keith C. Allison / Project Manager	October 19, 2020
✓		*Nicholas W. Hartranft* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	October 22, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	1.26
Latitude	41º 6' 20.16"	Longitude	-76º 53' 23.30"
Quad Name	Allenwood, PA	Quad Code	1030
Wastewater Description:	Sewage Effluent		
Receiving Waters	West Branch Susquehanna River (WWF, MF)	Stream Code	18668
NHD Com ID	66917989	RMI	18.02
Drainage Area	6646 mi^2	Yield (cfs/mi^2)	0.1224
Q_{7-10} Flow (cfs)	791	Q_{7-10} Basis	Gauge 01553500, West Branch Susquehanna River at Lewisburg (1968-2008)
Elevation (ft)	448.5	Slope (ft/ft)	0.00052
Watershed No.	10-D	Chapter 93 Class.	WWF, MF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	PCBs		
Source(s) of Impairment	Source Unknown		
TMDL Status	Final	Name	West Branch Susquehanna River
Nearest Downstream Public Water Supply Intake	PA American Water Company at Milton, PA		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	9.28
PWS RMI	108	Distance from Outfall (mi)	Approx. 7

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 application renewal 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.

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 in order 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 loadings have previously been established for this facility pursuant to the Phase II Watershed Implementation Plan.

The White Deer Run facility was converted to a pump station to convey all flows to the GTMA facility and ceased operating in April 2020. A May 14, 2020 inspection verified that the plant was decommissioned and NPDES Permit No. PA0114057 was terminated on May 18, 2020

Because no useful nutrient discharge data exists for the White Deer Run, concentrations of 25 mg/L Total Nitrogen and 4 mg/L Total Phosphorus were assumed consistent with the Phase III Wastewater Supplement with the average daily flow rate of 0.015 MGD to calculated resulting loading reductions for the removal of the White Deer Run facility. This results in loads of 1,142 lbs/day of TN and 182 lbs/day of TP which will now be included in the GMTA 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. As can be seen, the permittee has previously purchased Total Phosphorus credits to meet the Cap Loads.

Nutrient	Total Nitrogen	Total Phosphorus
Existing Nutrient Cap Loads for PA0114821	23,013	3,068
Cap Load Additions for connection of White Deer Run Facility	1,142	182
Proposed New Cap Loads for PA0114821	24,155	3,250
10/1/18 – 9/30/19 Total Mass Load	<17,277	<17,277
10/1/18 – 9/30/19 Credits Purchased	---	---
10/1/18 – 9/30/19 Net Mass Load	<17,277	<2,790
10/1/17 – 9/30/18 Total Mass Load	<9,506	<3,296
10/1/17 – 9/30/18 Credits Purchased	---	493
10/1/17 – 9/30/18 Net Mass Load	<9,506	2,803

Compliance History

A query in WMS found open violations in eFACTS for Gregg Township Municipal Authority for ongoing Fecal Coliform violations.

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) (1)		Concentrations (mg/L)				Minimum (2) 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

Compliance Sampling Location: Outfall 001

Other Comments: The above limitations and monitoring are unchanged from the existing permit.

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) (1)		Concentrations (mg/L)				Minimum (2) 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	24,155	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	3,250	XXX	XXX	XXX	XXX	1/month	Calculation

Compliance Sampling Location: Outfall 001

Other Comments: The above limitations and monitoring are unchanged from the existing permit except for the modified Annual Cap Loadings for Net Total Nitrogen and Net Total Phosphorus 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) (1)		Concentrations (mg/L)				Minimum (2) 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: The above monitoring is unchanged from the existing permit.