

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0209392
APS ID 1052535
Authorization ID 1377725

Applicant, Facility and Project Information

Applicant Name	<u>Richmond Township Municipal Authority Tioga County</u>	Facility Name	<u>Mann Creek Heights</u>
Applicant Address	<u>563 Valley Road Mansfield, PA 16933-9300</u>	Facility Address	<u>Mann Creek Heights Road Mansfield, PA 16933</u>
Applicant Contact	<u>Richard Franks, Chairman</u>	Facility Contact	<u>Dave Edwards, Operator</u>
Applicant Phone	<u>(570) 662-7316</u>	Facility Phone	<u>(570) 404-0839</u>
Client ID	<u>44036</u>	Site ID	<u>521197</u>
SIC Code	<u>4952</u>	Municipality	<u>Richmond Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Tioga</u>
Date Application Received	<u>December 1, 2021</u>	WQM Required	<u></u>
Date Application Accepted	<u>December 2, 2021</u>	WQM App. No.	<u></u>
Project Description	<u>Renewal of a NPDES Permit</u>		

Summary of Review

The Richmond Township Municipal Authority has submitted a renewal application for an 0.002 MGD Small Flow Treatment Facility (SFTF) serving eight residences.

A map indicating the discharge location is attached.

Sludge use and disposal description and location(s): Septic tanks are inspected annually and septage is transferred by registered haulers to other permitted facilities for further processing.

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	May 31, 2022
✓		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	June 1, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.002
Latitude	41° 49' 46.74"	Longitude	-77° 5' 35.22"
Quad Name	Mansfield, PA	Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Tioga River (CWF)	Stream Code	30990
NHD Com ID	57351407	RMI	28.1 (@Tioga River)
Drainage Area	183 mi ² (@Tioga River)	Yield (cfs/mi ²)	0.0164
Q ₇₋₁₀ Flow (cfs)	3.01	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	1100	Slope (ft/ft)	Undetermined
Watershed No.	4-A	Chapter 93 Class.	Cold Water Fishes
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	METALS, PH		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status	Final	Name	Tioga River
Nearest Downstream Public Water Supply Intake	PA-NY State Line		
PWS Waters	Tioga River	Distance from Outfall (mi)	Approx. 15

Other Comments: Stream and drainage characteristics were determined for previous reviews and remain adequate. The Discharge is to an intermittent stream that discharges into the Tioga River. The point of first use (POFU) for aquatic life had previously been determined to be at the discharge into the Tioga River.

The discharge is not expected to contribute to the impairment to the Tioga River by AMD.

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

Compliance History	
Summary of DMRs:	A review of the facility DMRs for the past year found one CBOD violation in July 2021 with a monthly average of 13 mg/L compared to a limitation of 10 mg/L.
Summary of Inspections:	The facility has been inspected periodically by the Department over the past permit term. The most recent inspection on July 23, 2020 identified DMR effluent violations.
Other Comments:	There are no open violations in eFACTS for Richmond Township Municipal Authority, Tioga County.

Treatment Facility Summary				
Treatment Facility Name: Mann Creek STP				
WQM Permit No.		Issuance Date		
5996407				
WQG01592101		2/24/21		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.002
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.002		Not Overloaded	Anaerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: WQM Permit No. 01592101 was issued in 2021 for the construction of an additional sand filter.

Other Comments: The treatment process, as approved under WQM Permit No. 5996407, consists of a 2” PVC force main, 2000-gallon dosing tank, two 1400 square foot sand filters, and tablet chlorinator with 1000-gallon contact tank. Each residence is served by a septic tank.

Limits Development

Small Flow Treatment Facility – While the facility is considered a Small Flow Treatment Facility (SFTF) the design is not consistent with the current SFTF manual and therefore, the discharge has not received current SFTF limits. Existing seasonal limits will be maintained rather than imposing the year-round limits of 10 mg/L for both CBOD and TSS that are applicable to systems designed under the current SFTF Manual. The seasonal Fecal Coliform limitations from 25 PA Code 93 will likewise be kept rather than imposing 200 No./100 ml as a year-round limitation.

Total Residual Chlorine (TRC) – The discharge has an existing site specific TRC limit of 1.0 mg/L as a monthly average due to the facility being a SFTF with a tablet feed chlorinator consistent with 25 PA Code 92a.48(b). Given the chlorine degradation that would occur in the dry channel prior to the discharge reaching the POFU as well as the ample dilution available in the Tioga River, the limit is expected to be protective.

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	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
TRC	XXX	XXX	XXX	1.0	XXX	3.2	1/month	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20	XXX	40	1/month	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS Nov 1 - Apr 30	XXX	XXX	XXX	20	XXX	40	1/month	Grab
TSS May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: The above limits are unchanged from the existing permit except for the units for Fecal Coliform being changed from CFU/100 ml to No./100 ml consistent with current requirements.

