

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0060755
APS ID 494889
Authorization ID 1265007

Applicant and Facility Information

Applicant Name	<u>Wyoming County Housing Authority</u>	Facility Name	<u>Meshoppen Townhouse Apartments</u>
Applicant Address	<u>133 SJ Bailey Road</u> <u>Nicholson, PA 18446</u>	Facility Address	<u>Benninger Road</u> <u>Meshoppen, PA 18630</u>
Applicant Contact	<u>Danielle Powell, Executive Director</u>	Facility Contact	<u>Lloyd Farr, Operator/Maintenance</u>
Applicant Phone	<u>(570) 942-6155</u>	Facility Phone	<u>(570) 833-5317</u>
Client ID	<u>27051</u>	Site ID	<u>260050</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Meshoppen Township</u>
Connection Status	<u>-</u>	County	<u>Wyoming</u>
Date Application Received	<u>March 11, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 24, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.008 MGD of treated sewage into Little Meshoppen Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 4-G (Mehoopany – Bowman Creeks). 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. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. A BPJ-based minimum limitation of 5.0 mg/L for Dissolved Oxygen (DO) has been added to the permit.

The previous permit had a year-round monitoring/reporting requirement for Ammonia-Nitrogen. A 25.0 mg/L average monthly limit and 50.0 mg/L IMAX limit has been applied to this permit for Ammonia-Nitrogen from May 1 to October 31. Monitoring/reporting for Ammonia-Nitrogen is required from November 1 to April 30. A 2/month sampling frequency is being applied to be consistent with recommended frequencies. WQM 7.0 modeling did not recommend stricter limitations.

The 1.2 mg/L monthly average and 2.8 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. As per PA Code 92a.47(a)(8) (which refers to PA Code 92a.48(b)(2)), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L has been applied to this permit renewal. The TRC Calculation Spreadsheet did not recommend more stringent water quality-based limitations. The permittee will be required to meet the new technology-based limits for TRC starting one year after the effective date of the permit.

The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

Approve	Deny	Signatures	Date
X		<i>Allison Seyfried</i> Allison Seyfried / Environmental Engineering Specialist	April 23, 2020
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	4-24-20

Summary of Review

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall. USGS StreamStats and the state-default Low flow Yield (LFY) were used to estimate low flow values. StreamStats provided at 7-Day 10-Year Low Flow (Q_{7-10} flow) of 0.12 ft^3/sec and a LFY of 0.0106 cfs/mi^2 . The state-wide default LFY is 0.1 cfs/mi^2 and was used to calculate a Q_{7-10} flow of 1.13 ft^3/sec . For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

Using both the state-wide default values and USGS StreamStats values, neither the TRC Calculation Spreadsheet or WQM 7.0 modeling recommended water-quality based limitations.

As per maintenance staff for the Wyoming County Housing Authority, the Meshoppen Townhouse Apartments has a contract with Rural Wastewater Management (located in Hunlock Creek, PA) to remove the sewage sludge/biosolids from the facility.

The existing permit expired on August 31, 2019 and the application for renewal was received late on March 11, 2019.

A Water Management System Inspection query indicated that on April 27, 2017 a Routine/ Partial Inspection was performed.

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



Watershed Info -
Meshoppen Townhc



TRC_CALC -
Meshoppen Townhc



WQM 0.1 -
Meshoppen TH.pdf



WQM 0.0106 -
Meshoppen TH.pdf

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)	.008
Latitude	41° 37' 58.58"	Longitude	-76° 3' 11.10"
Quad Name	Auburn Center	Quad Code	0537
Wastewater Description: Sewage Effluent			
Receiving Waters	Little Meshoppen Creek (CWF)	Stream Code	29350
NHD Com ID	66403929	RMI	1.6
Drainage Area	11.3 mi ²	Yield (cfs/mi ²)	0.10 and 0.0106
Q ₇₋₁₀ Flow (cfs)	1.13 and 0.12	Q ₇₋₁₀ Basis	State-wide default and USGS StreamStats
Elevation (ft)	794	Slope (ft/ft)	-
Watershed No.	4-G	Chapter 93 Class.	CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	Danville Borough Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	-
PWS RMI	122.58	Distance from Outfall (mi)	~ 97.5

Treatment Facility Summary				
Treatment Facility Name: Meshoppen Townhouse Apartments				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.0028 (2016-2018)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.008	-	Not Overloaded	-	Hauled

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) 0.008
 Latitude 41° 38' 0.00" Longitude -76° 3' 9.00"
 Wastewater Description: Sewage Effluent

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.	IMAX	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	BPJ
Ammonia-Nitrogen May 1 - Oct 31	25.0	Average Monthly	-	BPJ
	50.0	IMAX	-	
Ammonia-Nitrogen Nov 1 - Apr 30	Report	Average Monthly	-	BPJ
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

Not applicable.

Anti-Backsliding

No limitations were made less stringent.