

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0112933  
APS ID 1047675  
Authorization ID 1369393

**Applicant and Facility Information**

Applicant Name	<u>Penns Creek Municipal Authority Snyder County</u>	Facility Name	<u>Penns Creek Municipal Authority Sewer System STP</u>
Applicant Address	<u>PO Box 148 Penns Creek, PA 17862-0148</u>	Facility Address	<u>207 Walnut Street Penns Creek, PA 17862</u>
Applicant Contact	<u>Beverly Bowersox</u>	Facility Contact	<u></u>
Applicant Phone	<u>(570) 837-3185</u>	Facility Phone	<u></u>
Client ID	<u>62657</u>	Site ID	<u>245181</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Center Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Snyder</u>
Date Application Received	<u>September 14, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u></u>		

**Summary of Review**

Sludge use and disposal description and location(s):

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
		Jonathan P. Peterman / Project Manager	September 19, 2022
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.07</u>
Latitude	<u>40° 51' 47.94"</u>	Longitude	<u>-77° 2' 34.59"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Penns Creek (WWF, MF)</u>	Stream Code	_____
NHD Com ID	<u>54963109</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	_____	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>6-A</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake _____			
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

Changes Since Last Permit Issuance:

Other Comments:

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Penns Creek Municipal Authority				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	No Disinfection	0.07
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.07	145	Not Overloaded		

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of DMRs:	[REDACTED]
Summary of Inspections:	[REDACTED]

Other Comments: [REDACTED]

Compliance History

DMR Data for Outfall 001 (from August 1, 2021 to July 31, 2022)

Parameter	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21
Flow (MGD) Average Monthly	0.029	0.032	0.052	0.0406	0.038	0.058	0.037	0.032	0.036	0.034	0.049	0.038
Flow (MGD) Daily Maximum	0.041	0.075	0.184	0.105	0.049	0.226	0.048	0.047	0.108	0.09	0.161	0.121
pH (S.U.) Instantaneous Minimum	6.85	6.59	6.75	7.16	6.53	6.75	6.81	6.8	6.83	6.94	6.9	7.01
pH (S.U.) Instantaneous Maximum	7.58	7.35	7.71	7.76	7.48	7.45	7.17	7.53	7.37	7.45	7.5	7.55
DO (mg/L) Minimum	3.37	0.31	3.84	6.5	2.93	6.93	6.0	5.57	5.61	4.72	4.59	5.04
TRC (mg/L) Average Monthly	0.42	0.137	0.423	0.64	0.27	0.35	0.37	< 0.18	0.63	0.25	0.2	0.25
TRC (mg/L) Instantaneous Maximum	0.92	0.61	1.62	2.07	0.99	0.84	2.89	1.21	7.98	0.68	0.69	0.92
CBOD5 (lbs/day) Average Monthly	0.8	5.7	3.2	1.8	7.5	< 1.7	2.1	0.7	0.8	1.3	< 9.1	1.0
CBOD5 (lbs/day) Weekly Average	1.1	6.6	4.2	2.99	8.2	1.9	2.8	0.7	1.0	2.0	17.7	1.2
CBOD5 (mg/L) Average Monthly	4.0	18.0	10.0	8.0	26.0	< 6.0	7.0	3.0	3.0	4.8	< 8.5	4.1
CBOD5 (mg/L) Weekly Average	4.0	23.0	13.0	13.0	29.0	8.0	9.0	3.3	4.0	7.0	14.7	3.2
CBOD5 (mg/L) Instantaneous Maximum	4.3	23.0	13.1	13.4	29.0	8.0	9.0	3.3	4.0	7.0	14.7	4.9
BOD5 (lbs/day) Influent   Average Monthly	71	83.0	63	61	77.0	112	68	71	62	79	109	96
BOD5 (lbs/day) Influent   Daily Maximum	115	95.0	67	66	81.0	114	71	79	65	83	118	111
BOD5 (mg/L) Influent   Average Monthly	340	258	205	223	270	399	232	299	237	304	269.8	372

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**NPDES Permit No. PA0112933**

TSS (lbs/day) Average Monthly	2.2	11.0	1.9	3.6	22.5	< 1.0	1.7	< 1.2	1.4	1.0	14.6	< 1.1
TSS (lbs/day) Influent   Average Monthly	33.0	46.0	44	61	42.0	72	43	38	37	41	62	52
TSS (lbs/day) Influent   Daily Maximum	46.0	53.0	49	71	44.0	83	50	48	39	45	83	64
TSS (lbs/day) Weekly Average	4.0	18.0	2.0	6.0	26.0	1.0	2.0	1.6	1.8	1.2	27.6	< 1.1
TSS (mg/L) Average Monthly	10.0	31.0	6.0	11.0	79.0	< 4.0	< 6.0	< 5.0	< 5.5	3.8	14.5	< 4.0
TSS (mg/L) Influent   Average Monthly	181	144.0	144	235	145.0	262	146	159	140	159	115	204
TSS (mg/L) Weekly Average	15.0	47.0	7.0	17.0	93.0	5.0	8.0	6.0	7.0	5.0	23.0	4.0
TSS (mg/L) Instantaneous Maximum	15.0	47.0	7.0	17.0	93.0	5.0	8.0	6.0	7.0	5.0	23.0	4.0
Fecal Coliform (No./100 ml) Geometric Mean	1043	2419.6	65	48	277	< 29	38	244	111	27	> 2419.6	39
Fecal Coliform (No./100 ml) Instantaneous Maximum	1986.3	2419.6	344.8	307.6	325.5	866	52.1	2419.6	2419.6	148.3	> 2419.6	139.6
Total Nitrogen (lbs/day) Annual Average									2.64			
Total Nitrogen (lbs/day) Total Annual									963.6			
Total Nitrogen (mg/L) Annual Average									5.47			
Ammonia (lbs/day) Average Monthly		E			5.0				0.09		0.09	
Ammonia (lbs/day) Daily Maximum		E			5.0				0.09		0.09	
Ammonia (mg/L) Average Monthly		E			19.3				0.32		0.32	
Total Phosphorus (lbs/day) Annual Average									0.97			

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Total Phosphorus (lbs/day) Total Annual									354			
Total Phosphorus (mg/L) Annual Average									1.97			

**Compliance History**

**Effluent Violations for Outfall 001, from: September 1, 2021 To: July 31, 2022**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TRC	11/30/21	Avg Mo	0.63	mg/L	.5	mg/L
TRC	04/30/22	Avg Mo	0.64	mg/L	.5	mg/L
TRC	04/30/22	Avg Mo	0.64	mg/L	.5	mg/L
TRC	04/30/22	IMAX	2.07	mg/L	1.6	mg/L
TRC	01/31/22	IMAX	2.89	mg/L	1.6	mg/L
TRC	01/31/22	IMAX	2.89	mg/L	1.6	mg/L
TRC	11/30/21	IMAX	7.98	mg/L	1.6	mg/L
TRC	04/30/22	IMAX	2.07	mg/L	1.6	mg/L
TRC	05/31/22	IMAX	1.62	mg/L	1.6	mg/L
TRC	05/31/22	IMAX	1.62	mg/L	1.6	mg/L
CBOD5	03/31/22	Avg Mo	26.0	mg/L	25.0	mg/L
TSS	03/31/22	Avg Mo	22.5	lbs/day	17.5	lbs/day
TSS	09/30/21	Wkly Avg	27.6	lbs/day	26.0	lbs/day
TSS	06/30/22	Avg Mo	31.0	mg/L	30.0	mg/L
TSS	03/31/22	Avg Mo	79.0	mg/L	30.0	mg/L

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**NPDES Permit No. PA0112933**

TSS	03/31/22	Wkly Avg	93.0	mg/L	45.0	mg/L
TSS	06/30/22	Wkly Avg	47.0	mg/L	45.0	mg/L
TSS	03/31/22	IMAX	93.0	mg/L	60.0	mg/L
Fecal Coliform	06/30/22	Geo Mean	2419.6	No./100 ml	200	No./100 ml
Fecal Coliform	09/30/21	Geo Mean	> 2419.6	No./100 ml	200	No./100 ml
Fecal Coliform	07/31/22	Geo Mean	1043	No./100 ml	200	No./100 ml
Fecal Coliform	09/30/21	IMAX	> 2419.6	No./100 ml	1000	No./100 ml
Fecal Coliform	07/31/22	IMAX	1986.3	No./100 ml	1000	No./100 ml
Fecal Coliform	06/30/22	IMAX	2419.6	No./100 ml	1000	No./100 ml

Summary of Inspections:

Other Comments:





Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 391-2000-023, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]