pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0028258**
Facility Type	**Municipal**	APS ID	**824465**
Major / Minor	**Minor**	Authorization ID	**1251065**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Ohiopyle Borough**	Facility Name	**Ohiopyle Borough WWTP**
Applicant Address	PO Box 83	Facility Address	SR 381
	Ohiopyle, PA 15470-0083		Ohiopyle, PA 15470
Applicant Contact	Ms. Elizabeth McCarty	Facility Contact	Same as Applicant
Applicant Phone	724.329.1662	Facility Phone	Same as Applicant
Client ID	110675	Site ID	257943
Ch 94 Load Status	Not Overloaded	Municipality	Ohiopyle Borough
Connection Status	No Limitations	County	Fayette
Date Application Received	October 31, 2018	EPA Waived?	Yes
Date Application Accepted	November 5, 2018	If No, Reason	

Purpose of Application: Application for a renewal of an existing NPDES permit for the discharge of treated Sewage.

Summary of Review

The applicant has applied for a renewal of an existing NPDES Permit, Permit No. PA0028258, which was previously issued by the Department on May 1, 2014. That permit expired on May 31, 2019.

Latitude and Longitude information for this facility was updated to accurately reflect the location of Outfall # 001.

WQM Permit No. 465S97 A-1 approved construction of a STP with a design flow rate of 0.03 MDG. The existing treatment process consists flow equalization, extended aeration, final clarification, a sludge holding tank, and ultraviolet disinfection.

The receiving stream, Meadow Run, is classified as a HQ-CWF, and is located in State Watershed No. 19-E.

The applicant has complied with Act 14 Notifications and no comments were received.

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
X		William C. Mitchell William C. Mitchell, E.I.T. / Environmental Engineering Specialist	April 15, 2020
X		Christopher Kriley Christopher Kriley, P.E. / Program Manager	May 20, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.03
Latitude	39º 51' 49.41"	Longitude	-79º 29' 44.36"
Quad Name	Ohiopyle	Quad Code	2010
Wastewater Description:	Sewage Effluent		

Receiving Waters	Meadow Run (HQ-CWF)	Stream Code	38488
NHD Com ID	69921275	RMI	0.01
Drainage Area	41.2	Yield (cfs/mi^2)	0.0262
Q_{7-10} Flow (cfs)	1.08	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1169	Slope (ft/ft)	
Watershed No.	19-E	Chapter 93 Class.	HQ-CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status			
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		North Fayette County Municipal Authority	
PWS Waters	Youghiogheny River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance: NONE

Treatment Facility Summary

Treatment Facility Name: Ohiopyle Borough STP

WQM Permit No.	Issuance Date
465S97 A-1	

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.004 – 2017 Avg

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.03	60.05	Not Overloaded	Aerobic Digestion	Biosolids are hauled away by Hapchuck, Inc. or R&D Watters.

Changes Since Last Permit Issuance: NONE

Compliance History

Other Comments: An Operations Compliance Check Report for this facility was requested on April 13, 2020 and will be included in the Fact Sheet Addendum.

This facility has ongoing I&I issues and a history of sewage discharges from the unauthorized bypass at the facilities flow equalization tank directly to Meadow Run. The Borough entered into a COA with the Department to address these and other compliance issues on September 6, 2019.

Please note that in the months of July, August, December of 2019, and January, February of 2020 the Borough exceeded their permitted Hydraulic Design Capacity of 0.03 MGD.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .03
Latitude 39º 51' 49.41" **Longitude** -79º 29' 44.36"
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	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Total Suspended Solids	45	Average Weekly	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)

Comments: The discharge is to Meadow Run, approximately 50 feet from the Youghiogheny River. Both Meadow Run and the Youghiogheny River are classified as a HQ-CWF. Since this facility was permitted in 1966, prior to the classification of streams as high quality, this will not be treated as a high quality discharge.

The stream to waste flow at the point of discharge is 41/1 and the stream to waste flow at the Youghiogheny River is 13,000/1. Significant dilution exists to re-impose technology based effluent limits for CBOD5, Fecal Coliform, and TSS.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/L will be implemented based on the standard in 25 PA Code Chapter 93 and best professional judgment. This is applied for an activated sludge system.

Anti-Backsliding

N/A

Additional Considerations:

Ultraviolet (UV) disinfection is used therefore Total Residual Chlorine (TRC) limits are not applicable. Routine monitoring of UV transmittance will be at the same monitoring frequency that is used for TRC.

For pH, Dissolved Oxygen (DO) and UV disinfection, a monitoring frequency 1/day has been imposed. In general, less frequent monitoring may be established only when the permittee demonstrates that there will be no discharge on days where monitoring is not required.

Nutrient monitoring is required to establish the nutrient load from the waste water treatment facility and the impacts that load may have on the quality of the receiving stream(s). A 1/year monitor and report requirement for Total N & Total P has been added to the permit as per Chapter 92.a.61.

For existing discharges, if an average monthly warm period limit of 25 mg/L is acceptable, a year-round monitoring requirement for ammonia-nitrogen, at a minimum should be established. The monitoring requirements for Ammonia Nitrogen are consistent with $CBOD_5$, TSS, and Fecal Coliform and Table 6-3 of the Permits Writers Manual.

Mass loading limits are applicable for publicly owned treatment works. Current policy requires average monthly mass loading limits be established for CBOD5 and TSS. Average monthly mass loading limits (lbs/day) are based on the formula: design flow (MGD) x concentration limit (mg/L) x conversion factor (8.34). Please note that mass loading limits were previously not imposed on this POTW.

For POTWs with design flows greater than 2,000 GPD influent BOD_5 and TSS monitoring must be established in the permit, and the monitoring should be consistent with the same frequency and sample type as is used for other effluent parameters.

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations.

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.

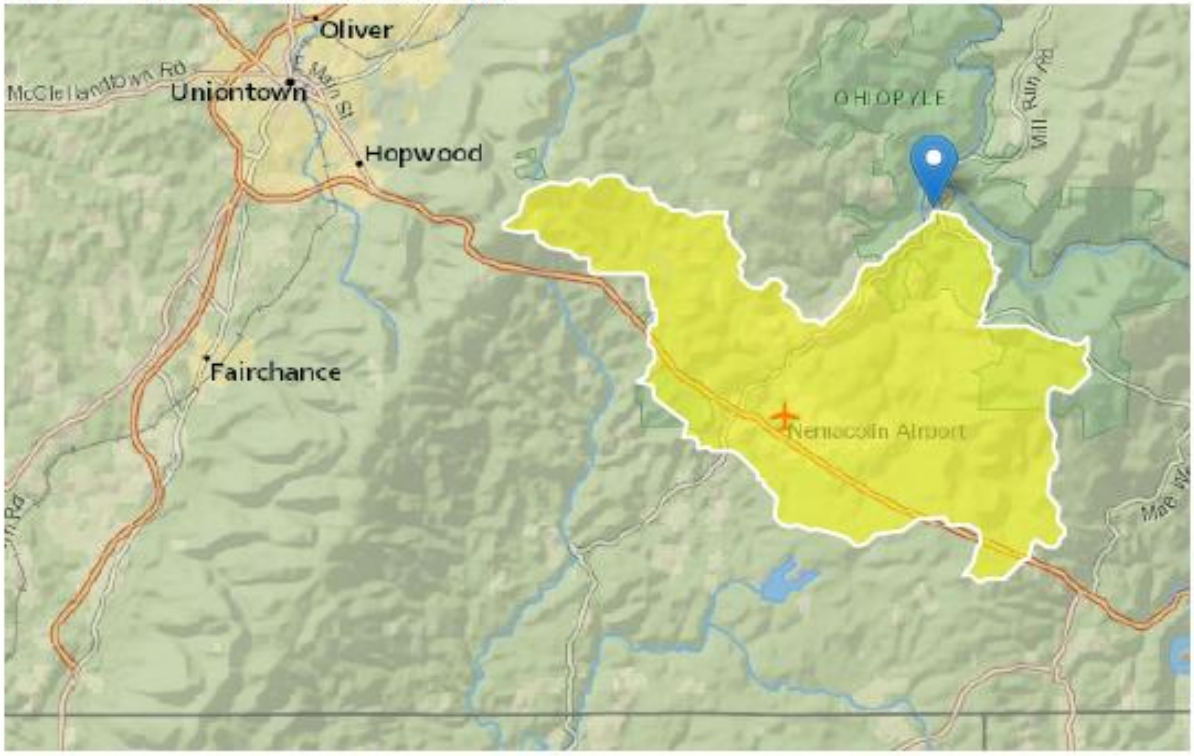
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instantaneous Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	0.03	XXX	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
CBOD5	6.0	XXX	XXX	25.0	XXX	50.0	2/month	Grab
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	Grab
TSS	7.5	XXX	XXX	30.0	XXX	60.0	2/month	Grab
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Ammonia-Nitrogen	Report	XXX	XXX	Report	XXX	Report	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: Outfall # 001

StreamStats Report

Region ID: PA
Workspace ID: PA20200416025414686000
Clicked Point (Latitude, Longitude): 39.86382, -79.49595
Time: 2020-04-15 22:54:35 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	41.2	square miles
ELEV	Mean Basin Elevation	2025.9	feet

Low-Flow Statistics Parameters[Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	41.2	square miles	2.26	1400
ELEV	Mean Basin Elevation	2025.9	feet	1050	2580

Low-Flow Statistics Flow Report[Low Flow Region 4]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	SEp
7 Day 2 Year Low Flow	3.01	ft^3/s	43	43
30 Day 2 Year Low Flow	5.03	ft^3/s	38	38
7 Day 10 Year Low Flow	1.08	ft^3/s	66	66
30 Day 10 Year Low Flow	1.84	ft^3/s	54	54
90 Day 10 Year Low Flow	3.53	ft^3/s	41	41

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)