

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0023906
APS ID 1110449
Authorization ID 1478650

Applicant and Facility Information

Applicant Name	<u>Masontown Municipal Authority</u>	Facility Name	<u>Big Run STP</u>
Applicant Address	<u>1 E Church Avenue</u> <u>Masontown, PA 15461-1819</u>	Facility Address	<u>Madison Avenue River Road</u> <u>Masontown, PA 15461</u>
Applicant Contact	<u>Mark Durant</u>	Facility Contact	<u>Edgar Harris</u>
Applicant Phone	<u>(724) 583-7731</u>	Facility Phone	<u>(724) 966-2278</u>
Client ID	<u>39690</u>	Site ID	<u>713450</u>
Ch 94 Load Status	<u>Existing Hydraulic Overload</u>	Municipality	<u>Masontown Borough</u>
Connection Status	<u>Dept. Imposed Connection Prohibitions</u>	County	<u>Fayette</u>
Date Application Received	<u>March 28, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 22, 2024</u>	If No, Reason	<u></u>
Purpose of Application	<u>NPDES permit renewal application.</u>		

Summary of Review

The Pa Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from Masontown Municipal Authority (permittee) on March 28, 2024 for permittee's Big Run STP (facility). This is a minor sewage facility with a design flow of 0.4 MGD that discharges into Monongahela River (WWF) in state watershed 19-G. The current permit will expire on October 31, 2024. The terms and conditions of the current permit is automatically extended since the renewal application was received at least 180 days prior to expiration date. Renewal NPDES permit application under Clean Water Program are not covered by PADEP's PDG per 021-2100-001. This fact sheet is developed in accordance with 40 CFR §124.56.

Changes to existing permit: Added: E. Coli.

Sludge use and disposal description and location(s): Aerobically digested sludge hauled-off to other WWTP.

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
√		Reza H. Chowdhury, E.I.T. / Project Manager 	April 22, 2024
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	04/26/2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.4
Latitude	39° 51' 9.00"	Longitude	-79° 55' 35"
Quad Name	Masontown	Quad Code	2006
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Monongahela River (WWF)	Stream Code	37185
NHD Com ID	99416486	RMI	79.66
Drainage Area	4,520 mi ²	Yield (cfs/mi ²)	0.08
Q ₇₋₁₀ Flow (cfs)	347 cfs	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	763.34	Slope (ft/ft)	
Watershed No.	19-G	Chapter 93 Class.	WWF
Existing Use	WWF	Existing Use Qualifier	
Exceptions to Use	None	Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	Chlordane, PCBs, Organics		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS		
TMDL Status	Issued April 9, 2001	Name	Monongahela TMDL
Nearest Downstream Public Water Supply Intake	Southeastern PA Water Authority		
PWS Waters	Monongahela River	Flow at Intake (cfs)	
PWS RMI	77.68	Distance from Outfall (mi)	1.98

Changes Since Last Permit Issuance: None

Streamflow:

Per the previous fact sheet, a survey was conducted to determine the location of the outfall. It was found that the actual discharge is into an UNT to Monongahela River, approximately 30 feet upstream of the confluence. However, the receiving stream at the outfall is influenced by the backflow of the Mon river and it was determined that the outfall location may be considered as in Mon river for the development of effluent limits. The dilution is too high ((347 cfs/(0.4 MGD*1.547 cfs/MGD)) or 560:1 at Q₇₋₁₀ condition. Due to the much larger dilution, the WQM model wouldn't be utilized and secondary limits should be sufficient.

PWS Intake:

The nearby downstream PWS intake is Southeastern PA Water Authority, on Monongahela River, at 77.68 RMI which is approximately 1.98 miles downstream of the outfall 001. Due to the larger dilution, the discharge from the facility is expected not to have an adverse effect on the PWS intake.

Monongahela TMDL:

TMDL was finalized for Monongahela River from the Point Marion Lock and Dam (RMI 90.8) to the Grays Landing Lock and Dam (RMI 82.0) due to presence of PCBs and Chlordane in concentration higher than FDA Action Level. No known source of PCBs or Chlordane were identified during TMDL development, and it is assumed that both pollutants are coming from non-point sources through ground water or surface runoff. The percentage reduction goal for PCBs is 99.7% and Chlordane is 95.8%. However, no WLA was assigned for this facility or any facility within the TMDL segment. The facility discharges below the TMDL segment. No limits or monitoring will be placed in this renewal for those two parameters to be consistent with existing permit.

Antidegradation (Ch. 93.4):

The effluent limits for this discharge have been developed to ensure that existing in-stream uses and the level of water quality necessary to protect the existing uses are maintained and protected. The receiving stream is designated as Warm

Water Fishes (WWF). No High-Quality watershed is impacted by this discharge. No Exceptional-value watershed is impacted by this discharge.

Class A Wild Trout Fisheries:

No Class A wild trout fisheries are impacted by this discharge.

Treatment Facility Summary				
Treatment Facility Name: Big Run STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Ultraviolet	0.4
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.478	667	Existing Hydraulic Overload	Aerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: To remediate the existing hydraulic overload condition due to wet weather flow, the permittee proposed and PADEP approved a Corrective Action Plan (CAP) on June 14, 2017. As part of the CAP, the following actions were identified and completed:

Masontown Borough Big Run WWTF			Reporting Period			
Masontown Borough	Fayette County	PA0023906	FROM	1/1/2023	TO 7/31/2023	
Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	% of Task Complete	Comments
1. Verification of Previous Testing	9/15/2016	10/17/2017	4/1/2017	3/1/2017	100%	Remediation list compiled
2. Inspection, Mapping, Cleaning & Televising	12/12/2016	12/12/2016	3/31/2017	4/2/2017	100%	Borough wide GIS completed
3. Pre-Construction Flow Monitoring & Analysis	6/26/2017	10/1/2017	10/27/2017	6/30/2018	100%	Flow Monitoring Completed
4. Project Design & Permitting	10/30/2017	5/1/2018	1/13/2020	2/2/2021	100%	WQM Part II #467S021-A5 issued 2/2/2021
5. Project Construction	6/30/2021	4/18/2022	6/30/2022	4/4/2023	100%	Notice to Proceed 4/18/2022
6. Post- Construction Flow Monitoring & Analysis	4/1/2023		10/1/2023		0%	
7. Submittal of Plan for Additional Measures*	1/1/2024		6/1/2024		0%	

A Part II WQM permit was issued (amended) on February 2021 that authorized replacement of VCP sewers with PVC and HDPE pipe. The project included 28,850 LF of open-cut 8" PVC sewer, 55 LF of open-cut 12" PVC sewer, 270 LF of open-cut 18" PVC sewer, 7275 LF of 8" CIPP sewer line, 765 LF of 12" CIPP sewer line, 90 LF of 8" pipe burst sewer, 150 manholes, 10,035 LF of open-cut 6" PVC sewer lateral, 660 LF of 6" HDPE pipe burst sewer lateral, 530 lateral inspection ports, and appurtenances. Due to the hydraulic overload condition, a Department Imposed Connection Prohibition is in place until the CAP is satisfied.

Treatment Plant Description

Masontown Municipal Authority (MMA/Permittee) owns and operates a sewage treatment plant, named Big Run STP (facility), located in Masontown Borough, Fayette County. This is a minor STP with average annual design flow of 0.4 MGD, hydraulic design capacity of 0.478 MGD, and organic design capacity of 667 lbs. BOD5/day. The facility collects 100% of its flow from Masontown Borough, serving 1,118 EDUs. The application stated the average annual flow for 2021, 2022, and 2023 was 0.4315 MGD, 0.4101 MGD, and 0.3558 MGD. The highest monthly average flow for previous year (2023) was 0.801 MGD.

Flow enters a surge tank that empties into a combination bar screen/comminutor that flows into aeration tanks which thereafter flows through a clarifier. The flow from the clarifier is disinfected in a UV system and discharged via Outfall 001. Aerobically digested sludge is dried on drying beds and sent to numerous WWTP for final treatment and disposal.

Compliance History

DMR Data for Outfall 001 (from March 1, 2023 to February 29, 2024)

Parameter	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23
Flow (MGD) Average Monthly	0.43209	0.59345	0.36653	0.36633	0.30262	0.25983	0.44401	0.29455	0.29393	0.27786	0.28873	0.42654
Flow (MGD) Daily Maximum	0.78371	0.81041	0.60074	0.63069	0.63001	0.33500	0.80096	0.51192	0.50443	0.45894	0.45232	0.80040
pH (S.U.) IMIN	6.8	6.6	6.7	6.7	6.4	6.6	6.7	6.7	6.9	6.7	6.5	6.4
pH (S.U.) IMAX	7.2	7.1	7.2	7.2	7.0	7.1	7.4	7.3	7.4	7.1	7.2	7.3
DO (mg/L) IMIN	6.5	6.0	6.5	6.1	5.5	5.3	5.4	5.5	5.8	6.1	6.4	6.4
CBOD5 (lbs/day) Average Monthly	8.4	12.2	6.4	5.9	4.5	4.3	7.0	5.0	5.2	5.9	7.6	8.8
CBOD5 (lbs/day) Weekly Average	11.7	20.7	7.2	9.4	5.4	5.0	13.4	6.3	6.2	7.9	13.6	17.3
CBOD5 (mg/L) Average Monthly	2.7	2.3	2.1	2.0	2.0	2.0	2.1	2.0	2.3	2.6	2.9	2.2
CBOD5 (mg/L) Weekly Average	4.1	3.5	2.3	2.0	2.0	2.0	2.3	2.0	3.2	3.4	4.3	2.6
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	251.2	183.0	266.3	257.4	214.7	143.7	183.9	100.6	161.0	213.0	171.6	189.2
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	479.6	319.1	537.2	357.9	241.6	274.5	239.5	218.3	258.9	279.9	233.4	277.3
BOD5 (mg/L) Raw Sewage Influent Average Monthly	85.2	37.3	85.2	94.9	100.0	65.4	68.6	36.5	77.0	101.5	75.7	52.3
TSS (lbs/day) Average Monthly	17.0	48.7	16.9	17.0	11.2	14.5	25.3	12.6	11.8	11.3	12.1	24.2
TSS (lbs/day) Raw Sewage Influent Average Monthly	125.0	394.0	267.4	181.3	201.2	158.8	267.3	109.2	153.6	188.7	163.6	245.0
TSS (lbs/day) Raw Sewage Influent Daily Maximum	182.4	892.2	713.3	281.2	267.6	267.7	466.5	239.8	247.8	252.3	312.2	412.3
TSS (lbs/day) Weekly Average	21.0	81.1	21.9	28.2	13.6	27.5	66.8	15.8	15.6	14.3	15.8	41.1
TSS (mg/L) Average Monthly	5.3	8.6	5.5	5.6	5.0	6.5	6.6	5.0	5.0	5.0	5.0	6.3
TSS (mg/L) Raw Sewage Influent Average Monthly	41.0	72.4	86.5	67.6	95.5	75.0	84.0	39.8	69.5	90.8	72.0	66.5

**NPDES Permit Fact Sheet
Big Run STP**

NPDES Permit No. PA0023906

TSS (mg/L) Weekly Average	6.0	13.0	7.0	7.0	5.0	11.0	10.0	5.0	5.0	5.0	5.0	10.0
Fecal Coliform (No./100 ml) Geometric Mean	3	6	6	16	5	38	28	10	4	17	2	11
Fecal Coliform (No./100 ml) IMAX	23	23	30	259	23	65	42	37	26	65	33	49
UV Transmittance (%) Daily Minimum	4.1	4.1	4.2	2.9	5.2	5.3	6.1	3.8	5.2	3.7	4.1	3.2
Total Nitrogen (mg/L) Daily Maximum			10.1									
Ammonia (lbs/day) Average Monthly	0.5	1.1	0.6	0.8	0.5	0.6	0.8	0.5	0.3	0.5	0.5	1.3
Ammonia (mg/L) Average Monthly	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.4
Total Phosphorus (mg/L) Daily Maximum			2.8									

Compliance History

No eDMR violation identified in last 12 months review.

Summary of inspection

No inspection report is available for the permit term.

Existing Limits

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Measured
Carbonaceous Biochemical Oxygen Demand (CBOD5)	83.5	125.2	XXX	25	37.5	50	1/week	8-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Total Suspended Solids	100.1	150.2	XXX	30	45	60	1/week	8-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ultraviolet light transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Ammonia-Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.4</u>
Latitude <u>39° 51' 9.00"</u>	Longitude <u>-79° 55' 35.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	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)

Mass-Based Limits

The federal regulation at 40 CFR 122.45(f) requires that effluent limits be expressed in terms of mass, if possible. The regulation at 40 CFR 122.45(b) requires that effluent limitations for POTWs be calculated based on the design flow of the facility. The mass-based limits are expressed in pounds per day and are calculated as follows:

$$\text{Mass based limit (lb/day)} = \text{concentration limit (mg/L)} \times \text{design flow (mgd)} \times 8.34$$

Water Quality-Based Limitations

As discussed in page 2 of this fact sheet, a WQM wasn't performed due to much larger dilution of the receiving stream.

Flow and Influent BOD₅ and TSS Monitoring Requirement:

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii). Influent BOD₅ and TSS monitoring requirements are established in the permit per the requirements set in Pa Code 25 Chapter 94.

CBOD₅:

In absence of water quality analysis, technology-based limit of 25 mg/l as Average Monthly (AML) and 40.0 mg/l as Weekly Average are applicable. The Instantaneous Maximum (IMAX) limit of 50 mg/l is calculated by multiplying AML with a factor of 2. The current permit has AML of 25 mg/l but weekly average limit as 37.5 mg/l (calculated as 1.5 times AML) and referenced TBEL as governing limits. These limits will be carried over.

TSS:

There is no water quality criterion for TSS. The existing limits of 30 mg/L average monthly, 45 mg/l average weekly, and 60 mg/L instantaneous maximum will remain in the permit based on the minimum level of effluent quality attainable by secondary treatment, 25 Pa. Code § 92a.47 and 40CFR 133.102(b). The mass based average monthly and weekly average limits are calculated to be 100.1 lbs./day and 150.2 lbs./day respectively, which are the same as were in existing permit and will be carried over.

pH:

The TBEL for pH is above 6.0 and below 9.0 S.U. (40 CFR §133.102(c) and Pa Code 25 §§ 95.2(1), 92a.47) which are existing limits and will be carried over.

UV Disinfection:

PADEP's SOP BCW-PMT-033 recommends UV parameter monitoring where UV is used as a method of disinfection, with the same frequency as would be if Chlorine is used for disinfection. The facility can monitor and report UV Transmittance in %. Daily minimum UV Transmittance will be continued in this renewal.

Total Nitrogen:

PADEP's SOP BCW-PMT-033 recommends monitoring for Total Nitrogen for facilities with design flow more than 2000-GPD, which is also supported by Pa Code 25 Ch. 92a.61. Current monitoring requirement will be continued.

Total Phosphorus:

PADEP's SOP BCW-PMT-033 recommends monitoring for Total Phosphorus for facilities with design flow more than 2000-GPD, which is also supported by Pa Code 25 Ch. 92a.61. Current monitoring requirement will be continued.

Fecal Coliform:

The recent coliform guidance in 25 Pa. code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and an instantaneous maximum not greater than 1,000/100ml and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean and an instantaneous maximum not greater than 10,000/100ml. These are existing requirements and will be carried over in this renewal.

E. Coli:

Pa Code 25 § 92a. 61 requires monitoring of E. Coli. DEP's SOP titled "Establishing Effluent Limitations for Individual Sewage Permits (BCW-PMT-033, revised March 24, 2021) recommends quarterly E. Coli monitoring for sewage dischargers with design flow greater than or equal to 0.05 MGD but less than 1.0 MGD. This requirement will be applied from this permit term.

D.O.

A minimum DO of 4.0 mg/l should be established based on BPJ to ensure adequate operation and maintenance, unless there is water quality concern. The receiving stream is WWF and not a Class A/ wild trout stocking waterbody. Therefore, existing limit will be carried over.

Ammonia-N:

Due to larger dilution, it is assumed that a limit of 25.0 mg/l as AML will be sufficient. For existing dischargers, if 25 mg/l as AML is acceptable, a year-round monitoring, at a minimum, may be imposed. Existing monitoring requirement will be carried over.

Monitoring Frequency and Sample Types:

Otherwise specified above, the monitoring frequency and sample type of compliance monitoring for existing parameters are recommended by DEP's SOP and Permit Writers Manual and/or on a case-by-case basis using best professional judgment (BPJ).

Anti-Backsliding

Anti-backsliding prohibition is justified in sections where an exception is justified for the affected pollutant(s). For remaining pollutants, this prohibition isn't applicable since the proposed limits are at least as stringent as were in current permit.

Special Parameters Monitoring:

PADEP has determined that they have sufficient data over the past 7 years of implementing the special monitoring logic for TDS, Sulfate, Chloride, Bromide, and 1,4-Dioxane, and monitoring is no longer needed. The previous permit didn't have TDS monitoring and it won't be included in this renewal.

Proposed Effluent Limitations and Monitoring Requirements

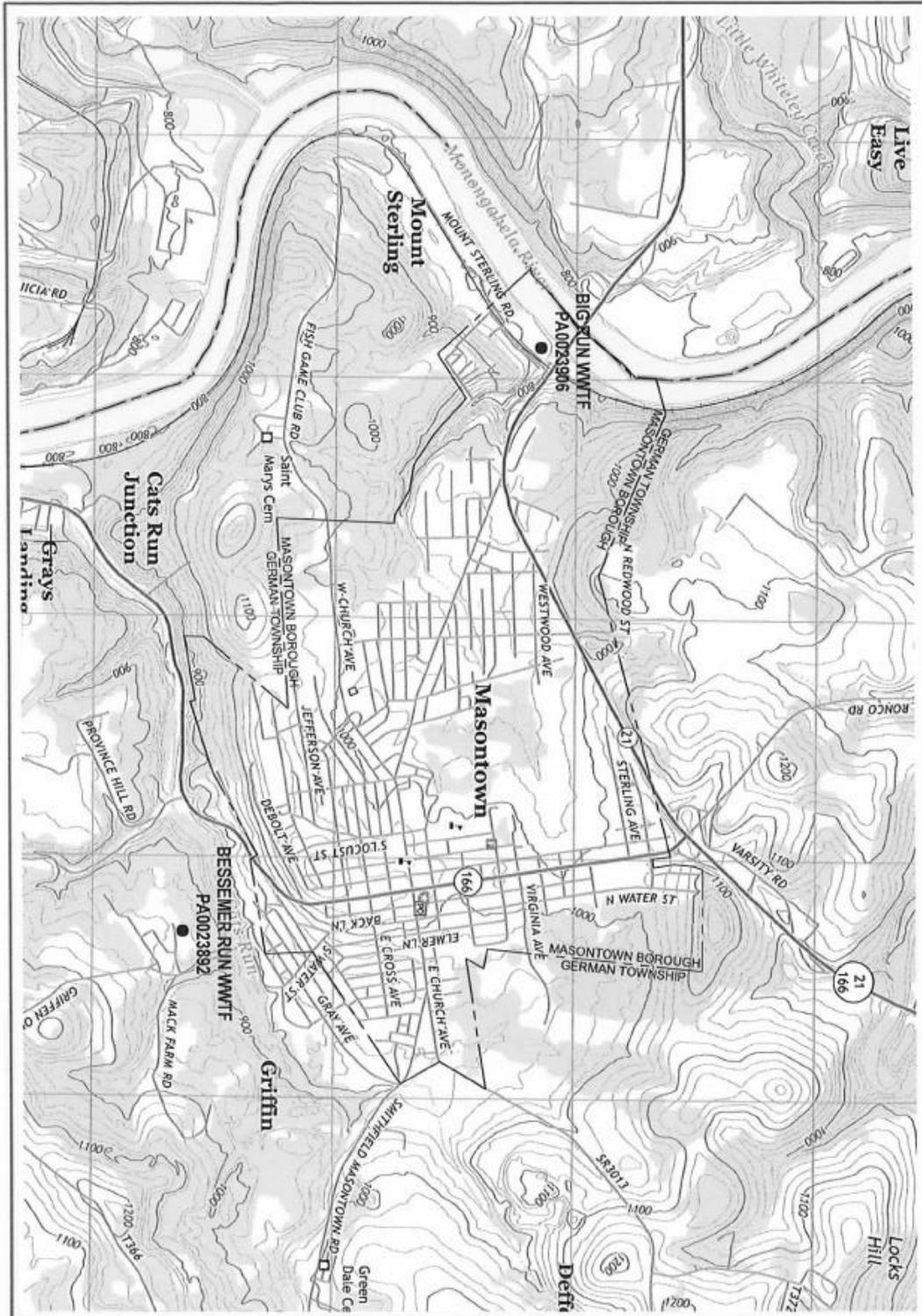
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (386-0400-001), 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	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Measured
CBOD5	83.5	125.2	XXX	25	37.5	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
TSS	100.1	150.2	XXX	30	45	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E-Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Ammonia	Report	XXX	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite

Compliance Sampling Location: At Outfall 001

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, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 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, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 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, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 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, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 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, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 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, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: BPNPSM-PMT-033
<input type="checkbox"/>	Other: [redacted]



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