

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0064297
APS ID 635189
Authorization ID 1479210

Applicant and Facility Information

Applicant Name	<u>Portland Borough</u>	Facility Name	<u>Portland Borough WWTP</u>
Applicant Address	<u>206 Division Street, PO Box 476</u> <u>Portland, PA 18351-0476</u>	Facility Address	<u>Demi Road</u> <u>Portland, PA 18351</u>
Applicant Contact	<u>Lance Prator</u>	Facility Contact	<u>Craig LaBarre</u>
Applicant Phone	<u>(570) 897-0559</u>	Facility Phone	<u>(570) 897-7474</u>
Client ID	<u>207209</u>	Site ID	<u>611842</u>
Ch 94 Load Status	<u>Not overloaded</u>	Municipality	<u>Portland Borough</u>
Connection Status	<u>No prohibitions</u>	County	<u>Northampton</u>
Date Application Received	<u>April 2, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 2, 2024</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		


Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge 0.105 MGD of treated sewage to the Delaware River, a warm-water, migratory fish (WWF, MF) designated receiving water in state water plan basin 1-F (Jacoby – Bushkill 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 discharge is not expected to affect public water supplies.

Limitations for pH and TRC are technology-based and carried over from the previous permit. TRC is to be sampled in the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option and is to be sampled "daily when discharging" (see requirements under Part C.I.D). Limitations for Dissolved Oxygen (DO), Total Suspended Solids (TSS), CBOD₅, Fecal Coliform, Ammonia-Nitrogen, Total Nitrogen, and Total Phosphorous are water quality-based and carried over from the previous permit. Monitoring and reporting for Nitrate-Nitrite as N and Total Kjeldahl Nitrogen continues in this permit. Quarterly monitoring/reporting for E. Coli is added to the permit as per current DEP guidance.

The latest DRBC Docket No. D-2003-009 CP-6 (approved September 5, 2024) does not include any additional parameters or requirements to incorporate into the NPDES permit. Previously issued DRBC Docket No. D-2003-009 CP-4 included an 85% minimum CBOD₅ & TSS removal requirement, and a 1,000 mg/L TDS IMAX limitation. These limitations are carried over from the previous permit.

The following template Part C condition is added to the permit for UV system monitoring: *The permittee shall report operation of the ultraviolet (UV) disinfection system on a daily basis using the Daily Effluent Monitoring Form (3800-FM-BCW0435) and the parameter named "UV Functional" The permittee shall report values of "1" for Yes (i.e., the UV system is functional) and "< 1" for No (i.e., the UV system is not functional). The UV system shall be considered functional when all components that are necessary for disinfection to achieve effluent limitations in Part A of this permit are operating properly.*

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	December 11, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	12-12-24

Summary of Review

All monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

Neither WQM 7.0 nor TRC spreadsheet modeling recommended more stringent limitations. RMI values for modeling inputs were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool in StreamStats. The low flow yield was obtained from the nearest active downstream gage (01446500 – Delaware River at Belvidere, NJ).

Apart from the public water supply intake-sensitive pollutants (TDS, Chloride, Bromide, Sulfate), there were no toxic pollutant sampling results to model with DEP's Toxics Management Spreadsheet (TMS). The water supply pollutants were not modeled with the TMS due to the relatively small discharge compared to the available dilution of the Delaware River.

Sludge use and disposal description and location(s): The permit renewal application indicates 7.7 dry tons of sewage sludge was hauled to the Grand Central Sanitary Landfill during the previous year.



Watershed
Information.pdf



TRC Calculation.pdf



WQM
Modeling.pdf



2003-009 CP-6.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)	0.105
Latitude	40° 55' 4"	Longitude	-75° 5' 16"
Quad Name	Portland	Quad Code	1145
Wastewater Description: Sewage Effluent			
Receiving Waters	Delaware River (WWF, MF)	Stream Code	2
NHD Com ID	26051736	RMI	132.1
Drainage Area	4,360 mi ²	Yield (cfs/mi ²)	0.26
Q ₇₋₁₀ Flow (cfs)	1133	Q ₇₋₁₀ Basis	StreamStats
Elevation (ft)	264	Slope (ft/ft)	0.0007
Watershed No.	1-F	Chapter 93 Class.	WWF, MF
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	Easton Area Water System		
PWS Waters	Delaware River	Flow at Intake (cfs)	-
PWS RMI	110.4	Distance from Outfall (mi)	~ 21.7

Treatment Facility Summary				
Treatment Facility Name: Portland Borough WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Membrane Bioreactor	Ultraviolet (UV)	0.027
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.105	219	Not overloaded	Drying Beds	Hauled

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 55' 4"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.105
Longitude -75° 5' 16"

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
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Total Residual Chlorine	1.6	IMAX	-	92a.48(b)(2)

Water Quality-Based Limitations

The following limitations and monitoring requirements were determined through water quality modeling or are required by the Delaware River Basin Commission:


Parameter	Limit (mg/l)	SBC	Model / Basis
CBOD ₅	10.0	Average Monthly	Previous Modeling
	20.0	IMAX	
Total Suspended Solids	10.0	Average Monthly	
	20.0	IMAX	
Fecal Coliform	50.0 / 100 ml	Average Monthly	
	250 / 100 ml	IMAX	
Ammonia-Nitrogen	1.5	Average Monthly	
	3.0	IMAX	
Dissolved Oxygen	6.0	Minimum	
Biochemical Oxygen Demand (BOD ₅) Raw Sewage Influent	Report	Average Monthly	
Total Suspended Solids Raw Sewage Influent	Report	Average Monthly	
Total Nitrogen	10.0	Average Monthly	
	20.0	IMAX	
Total Phosphorus	2.0	Average Monthly	
	4.0	IMAX	
CBOD ₅ Minimum % Removal (%)	85%	Minimum Monthly Average	DRBC Docket D-2003-009 CP-4
Total Suspended Solids Minimum % Removal (%)	85%	Minimum Monthly Average	
Total Dissolved Solids	1,000	IMAX	

Anti-Backsliding

No limitations were removed from the permit nor made less stringent.



DRAFT

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	December 11, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	12-12-24