

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0030112
 APS ID 1100709
 Authorization ID 1461436

Applicant and Facility Information

Applicant Name	<u>Methacton School District</u>	Facility Name	<u>Methacton HS STP</u>
Applicant Address	<u>4001 Eagleview Road</u> <u>Eagleville, PA 19403</u>	Facility Address	<u>1001 Kriebel Mill Road</u> <u>Eagleville, PA 19403-1048</u>
Applicant Contact	<u>Douglas Kenwood</u>	Facility Contact	<u>Douglas Kenwood</u>
Applicant Phone	<u>(610) 489-5000</u>	Facility Phone	<u>(610) 489-5000</u>
Client ID	<u>81981</u>	Site ID	<u>452350</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Worcester Township</u>
Connection Status		County	<u>Montgomery</u>
Date Application Received	<u>October 30, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 15, 2023</u>	If No, Reason	
Purpose of Application	<u>Permit renewal.</u>		

Summary of Review

The applicant has submitted a renewal application for an individual permit to discharge sewage effluent from a minor sewage facility to unnamed tributary of Skippack Creek – Watershed 3-E through Outfall 001.

The unnamed tributary to Skippack Creek discharges into Skippack Creek, which flows to Perkiomen Creek. Perkiomen Creek flows to the Schuylkill River. On April 8, 2005, the U.S. EPA, Region III (EPA), established a nutrient Total Maximum Daily Load (TMDL) for Skippack Creek in accordance with Section 3303(d)(1)(c) and (2) of the Clean Water Act to address impairments of water quality as identified in Pennsylvania’s 1996, 1998, and 2002 Section 303(d) lists. The TMDL addressed the nutrient and excessive algal growth impairments. On September 27, 2007, the EPA withdrew the nutrient TMDLs. The EPA has not withdrawn sediment TMDL.

The facility consists of comminutor, equalization tank, three (3) aeration tanks, two (2) clarifiers, distribution tank, three (3) covered sand filters, chlorine contact tank, and sludge holding tank.

DEP conducted a site visit on 08/30/2023. The facility was working properly with no violations noted.

Sludge use and disposal description and location(s): 0.121 dry tons hauled to Pottstown WWTP by Kline’s Services.

No reported changes in quality or quantity of the effluent from the site. Therefore, based on the review of the monitoring and inspection reports, the previously established effluent limits and monitoring requirements are proposed in the draft permit as listed in p.5 of this fact sheet.

Act 14 Notifications: Worcester Township Planning Commission and Montgomery County Planning Commission received a notice regarding the permittee’s NPDES renewal application on October 25, 2023.

Approve	Deny	Signatures	Date
X		<i>Amy Boginsky</i> Amy Boginsky, MS, EIT / Environmental Engineering Specialist	April 18, 2024
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	4/18/2024

Summary of Review

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.	<u>001</u>	Design Flow (MGD)	<u>.027</u>
Latitude	<u>40° 10' 49.58"</u>	Longitude	<u>-75° 23' 36.05"</u>
Quad Name	<u>Collegeville</u>	Quad Code	<u>1742</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Skippack Creek (TSF, MF)</u>	Stream Code	<u>01040</u>
NHD Com ID	<u>25966166</u>	RMI	<u>0.0000</u>
Drainage Area	<u>0.82 mi²</u>	Yield (cfs/mi ²)	<u>0.02476</u>
Q7-10 Flow (cfs)	<u>0.0203</u>	Q7-10 Basis	<u>StreamStats</u>
Elevation (ft)	<u>246.58</u>	Slope (ft/ft)	
Watershed No.	<u>3-E</u>	Chapter 93 Class.	<u>TSF, 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	<u>Final</u>	Name	<u>Skippack Creek Watershed TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Montgomery County Lower Perkiomen Valley Park</u>		
PWS Waters	<u>Perkiomen Creek</u>	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	<u>6.88</u>

Treatment Facility Summary				
Treatment Facility Name: Methacton School District STP				
WQM Permit No.	Issuance Date			
4699430	12/22/1999			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration with Solids Removal	Hypochlorite	0.027
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.027		Not Overloaded		Other WWTP

Changes Since Last Permit Issuance: None

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 (GPD) Average Monthly	13465.9	17397.1	18424	10906	12804	12943	9809	6579	8435	7418	8849	8665
pH (S.U.) Instantaneous Minimum	7.1	6.4	7.1	6.0	6.3	6.5	7.2	6.8	6.7	6.4	6.4	6.4
pH (S.U.) Instantaneous Maximum	8.4	8.3	7.9	7.7	7.4	7.5	7.7	7.7	7.6	7.5	7.9	7.4
DO (mg/L) Instantaneous Minimum	6.6	5.9	8.3	9.3	5.2	4.3	5.0	5.3	6.2	6.8	5.4	5.2
TRC (mg/L) Average Monthly	0.3	0.1	0.1	0.1	0.04	0.05	0.04	0.1	0.1	0.04	0.1	< 0.03
TRC (mg/L) Instantaneous Maximum	0.81	0.8	0.39	0.2	0.07	0.080	0.1	0.5	0.2	0.08	0.11	0.06
CBOD5 (mg/L) Average Monthly	< 2	< 3	< 2	< 2	< 2	< 2	3	< 2	< 1	< 2	< 2.0	< 2
TSS (mg/L) Average Monthly	< 5	2	< 3	< 2	1	< 2	5	3	< 2	< 2	< 1	< 2
Fecal Coliform (No./100 ml) Geometric Mean	< 4	< 2	< 3	16	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20
Fecal Coliform (No./100 ml) Instantaneous Maximum	7	< 2	5	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	207
Ammonia (mg/L) Average Monthly	2.5	2.3	0.1	< 0.02	0.03	< 0.02	0.5	< 0.02	< 0.02	0.4	< 0.1	< 1.1
Total Phosphorus (mg/L) Average Monthly	0.3	0.3	1.3	0.6	0.4	0.4	0.3	0.6	1.0	1.2	0.7	0.6

Compliance History

Effluent Violations for Outfall 001, from: April 1, 2023 To: February 29, 2024

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
DO	09/30/23	Inst Min	4.3	mg/L	5.0	mg/L
TRC	02/29/24	Avg Mo	0.3	mg/L	.2	mg/L
TRC	01/31/24	IMAX	0.8	mg/L	.5	mg/L
TRC	02/29/24	IMAX	0.81	mg/L	.5	mg/L
Total Phosphorus	12/31/23	Avg Mo	1.3	mg/L	1.2	mg/L

Summary of Inspections: DEP conducted a site visit on 08/30/2023. The facility was working properly with no violations noted. Report below:



PA0030112_SEWAGE_
CEI_20230830.PDF

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	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	XXX	XXX	XXX	XXX	XXX	XXX	See Permit	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	See Permit	8-Hr Composite
DO	XXX	XXX	5.0	XXX	XXX	XXX	See Permit	Grab
TRC	XXX	XXX	XXX	0.2	XXX	0.5	See Permit	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	20	XXX	40	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	20	XXX	40	2/month	8-Hr Composite
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	1000	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.0	XXX	12	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	1.2	XXX	2.4	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001