

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0065242  
APS ID 653578  
Authorization ID 1445491

**Applicant and Facility Information**

Applicant Name	<u>Lower Milford Township</u>	Facility Name	<u>Limeport Village WWTF</u>
Applicant Address	<u>7607 Chestnut Hill Church Road</u> <u>Coopersburg, PA 18036-3712</u>	Facility Address	<u>1380 Limeport Pike</u> <u>Coopersburg, PA 18036</u>
Applicant Contact	<u>Emily Fucci</u>	Facility Contact	<u>Emily Fucci</u>
Applicant Phone	<u>(610) 967-4949 x116</u>	Facility Phone	<u>(610) 967-4949 x116</u>
Client ID	<u>66480</u>	Site ID	<u>491742</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lower Milford Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Lehigh</u>
Date Application Received	<u>June 28, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 28, 2023</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 up to 0.035 MGD of treated sewage into Saucon Creek, a high-quality cold water and migratory fish (HQ-CWF, MF) designated receiving stream in State Water Plan watershed 2-C (Lower Lehigh River). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use. The discharge is not expected to affect public water supplies.

All effluent limitations and monitoring requirements are carried over from the previous permit. The limitations are based on ABACT with approved SEJ (see attached WQM Report), water quality modeling, and BPJ. WQM 7.0 didn't recommend more stringent limitations and TRC modeling is not required. Modeling inputs include RMIs obtained using DEP's eMapPA with drainage areas and elevations from USGS StreamStats interactive map. The default low flow yield (LFY) of 0.1 cfs/mi<sup>2</sup> was utilized since there's no nearby representative stream gages to obtain low flow data from.

A Total Residual Chlorine (TRC) IMAX limitation of non-detect (0.02 mg/L in eDMR) is added to the permit during this renewal for times when the permittee utilizes chlorine for cleaning, backup disinfection, or other purposes. The minimum monitoring frequency for TRC is "daily when discharging" (see Part C.I.D). ABACT requires no detectable chlorine in the effluent and the 0.02 mg/L eDMR limitation coincides with DEP's target QL for TRC. Compliance with the TRC limitation is attained when discharge concentrations are non-detect while analyzing at the target QL (see Part C.III).

Monitoring/reporting requirements for Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate-Nitrite as N, influent BOD<sub>5</sub>, and influent TSS are carried over from the previous renewal.

DRBC Docket No. D-2009-010 CP-3 (approved December 12, 2018) doesn't include any additional requirements for inclusion in the NPDES permit. Yearly monitoring/reporting for E. Coli is added to the permit as per current guidance.

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	February 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	3-5-24

**Summary of Review**

Sludge use and disposal description and location(s): The permit renewal application indicates 18.3 dry tons of sewage sludge was hauled to the LCA Pretreatment WWTF via Allstate Septic Services in the previous calendar year.



WQM  
Modeling.pdf



Watershed  
Information.pdf



WQM Report.pdf



DRBC Docket.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.	<u>001</u>	Design Flow (MGD)	<u>0.035</u>
Latitude	<u>40° 30' 41"</u>	Longitude	<u>-75° 26' 53"</u>
Quad Name	<u>Allentown East</u>	Quad Code	<u>1442</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Saucon Creek (CWF, MF)</u>	Stream Code	<u>3345</u>
NHD Com ID	<u>26296247</u>	RMI	<u>14.93</u>
Drainage Area	<u>3.78 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.378</u>	Q <sub>7-10</sub> Basis	<u>Default LFY</u>
Elevation (ft)	<u>499</u>	Slope (ft/ft)	<u>0.01</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>

Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Pathogens</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>

Background/Ambient Data		Data Source
pH (SU)	<u>-</u>	<u>-</u>
Temperature (°F)	<u>-</u>	<u>-</u>
Hardness (mg/L)	<u>-</u>	<u>-</u>
Other:	<u>-</u>	<u>-</u>

Nearest Downstream Public Water Supply Intake	<u>BCWSA New Hope</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>670 (using 0.1 LFY)</u>
PWS RMI	<u>73.3</u>	Distance from Outfall (mi)	<u>~ 60</u>

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Lower Milford Township WWTF				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
3909401		7/20/2009		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with phosphorus reduction	Septic Tank / Sand Filter	Ultraviolet	0.035
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.035	61	Not Overloaded	Combination	Hauled

Other Comments: (copied from previous permit renewal fact sheet) Lower Milford Township Limeport Village has a Low-pressure sewer system & a 35,000 GPD Recirc Sand Filter STP w discharge to Saucon Creek, a HQ-CWF trib of the Lehigh River. It was designed to serve 109 EDUs. It's Organic Design Capacity of  $109 \times 2.8 \text{ people/EDU} \times .2 = 61$  lbs/day.

According to the project narrative the STP has the following units:

- 6 septic tanks w/ grinder pumps
- 10,000 g EQ tank
- 4 recirc tanks
- 4 packed media recirc sand filter beds
- effluent dosing tank
- 2 Stage sedimentation tank
- UV disinfection
- 2 post-aeration boxes to raise DO

STP came online January 2011.

**Development of Effluent Limitations**

**Outfall No.** 001  
**Latitude** 40° 30' 41"  
**Wastewater Description:** Sewage Effluent  
**Design Flow (MGD)** 0.035  
**Longitude** -75° 26' 53"

**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)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
	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)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

**Water Quality-Based and BPJ Limitations**

Parameter	Limit (mg/l)	SBC	Model
Total Phosphorus	2.0	Average Monthly	Previous modeling
	4.0	IMAX	
Dissolved Oxygen	6.0	Instant. Minimum	BPJ
Total Dissolved Solids	1,000	Average Quarterly	DRBC requirement
	2,000	IMAX	

**ABACT Limitations**

Parameter	Limit (mg/l)	SBC	Basis
CBOD <sub>5</sub> (May 1 – Oct 31)	10.0	Average Monthly	ABACT
	20.0	IMAX	
CBOD <sub>5</sub> (Nov 1 – Apr 30)	20.0	Average Monthly	
	40.0	IMAX	
Total Suspended Solids	10.0	Average Monthly	
	20.0	IMAX	
Total Residual Chlorine	0.02	IMAX	
Ammonia-N (May 1 – Oct 31)	3.0	Average Monthly	
	6.0	IMAX	
Ammonia-N (Nov 1 – Apr 30)	9.0	Average Monthly	
	18.0	IMAX	

**Anti-Backsliding**

No limitations were made less stringent or removed from the permit.

DRAFT

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	February 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	3-5-24