

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0029807
APS ID 821461
Authorization ID 1293959

Applicant and Facility Information

Applicant Name	<u>New Jersey Federation of YMHA & YWHA</u>	Facility Name	<u>New Jersey Y Camps WWTF</u>
Applicant Address	<u>21 Plymouth Street</u> <u>Fairfield, NJ 07004-1615</u>	Facility Address	<u>570 Sawkill Road</u> <u>Milford, PA 18337-1090</u>
Applicant Contact	<u>Janet Fliegelman, Executive Director</u>	Facility Contact	<u>Janet Fliegelman, Executive Director</u>
Applicant Phone	<u>(973) 575-3333</u>	Facility Phone	<u>(973) 575-3333</u>
Client ID	<u>39157</u>	Site ID	<u>488197</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Dingman Township</u>
Connection Status	<u>-</u>	County	<u>Pike</u>
Date Application Received	<u>October 21, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 4, 2020</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.10 MGD of treated sewage into Sawkill Pond (Sawkill Stream), an Exceptional Value, Migratory Fish (EV, MF) receiving stream in State Water Plan Basin 1-D (Shohola). As per the Department's current existing use list, the receiving stream/pond does not have an existing use classification that is more protective than its designated use. This stream segment is designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

According to the NPDES permit application and the WQM permit application (submitted on April 5, 2019), the facility has a hydraulic design capacity of 0.167 MGD but is only permitted to discharge 0.10 MGD. This facility typically only discharges during the summer months of June, July, and August. The average discharge from 2017-2019 is 0.057 MGD

Limitations for pH, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit.

Limitations for CBOD₅, Dissolved Oxygen (DO), and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM 7.0 modeling did not recommend stricter limits.

The 0.5 mg/L monthly average and 1.6 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. The TRC Calculation Spreadsheet recommends stricter limitations than the previous permit. The permittee will be required to meet the new water quality-based limits for TRC starting three years after the effective date of the permit (see Part C.III.). TRC limitations from the previously issued permit are in effect for the first three years after the permit effective date.

The annual monitoring and reporting for Total Nitrogen, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	July 9, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	7-10-20

Summary of Review

The previous permit has Total Phosphorous limitations (2.0 mg/L average monthly, 4.0 mg/L IMAX) based on a report entitled "Sawkill Pond Trophic State Index Survey" dated September 23, 2013. A new lake assessment was conducted during the year 2017, which resulted in a new "Sawkill Pond Trophic State Index Survey" dated January 30, 2020. The report concludes that the lake has probable impairment and states that the New Jersey Federation of YMHA/YWHA Camp wastewater treatment plant is likely causing this impairment due to consistent exceedances of their Total Phosphorous limitations.

A review of the facility's DMRs confirm these exceedances. The report also states there is an increase in TSI Scores for the lake during the same summer months the treatment plant discharges the elevated phosphorous concentrations. The report recommends the phosphorous limit in the NPDES permit be decreased to 1.0 mg/L average monthly and 2.0 mg/l IMAX. These new limits have been applied to this permit renewal. The permittee will be required to meet the new limits starting three years after the effective date of the permit.

For this permit renewal, 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).

There are no representative stream gages in the vicinity of the outfall. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi² was chosen to model the discharge. The discharge was also modeled using the LFY value provided by USGS StreamStats. Both models did not recommend stricter limits. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

As per the permittee's NPDES permit renewal application, sludge is pumped and hauled by M&S Disposal, treated and dried by Pike County Environmental in Matamoras, PA, and disposed via land application by TAM Environmental in Goshen, NY.

A WQM Permit application for upgrades at this facility (including a new dechlorination pump, replacement of the existing chlorine pump, and a new aeration system) was received by the permittee's consultant on April 5, 2019. A deficiency notification was sent to the permittee and consultant via email on May 16, 2019. The consultant has still not provided responses to the missing information.

The existing NPDES permit expired on April 30, 2020 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on July 16, 2019 a Compliance Evaluation was performed.

There are currently four open violations for this client that need to be resolved before issuance of the final permit:

1. 03/15/2018 - Violation ID 813499 – Violation Code 92A.41(A)12B – NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports (WPC NPDES - Program Specific ID: PA0029807).
2. 03/15/2018 - Violation ID 813500 – Violation Code 92A.44 – NPDES – Violation of effluent limits in Part A of permit (WPC NPDES - Program Specific ID: PA0029807).
3. 07/10/2018 - Violation ID 823907 – Violation Code 92A.44 – NPDES – Violation of effluent limits in Part A of permit (WPC NPDES - Program Specific ID: PA0029807).
4. 07/16/2019 - Violation ID 857859 – Violation Code 92A.44 – NPDES – Violation of effluent limits in Part A of permit (WPC NPDES - Program Specific ID: PA0029807).



Watershed Info - NJ
YMHA.pdf



WQM 7.0 - NJ YMHA
Camp.pdf



TRC_CALC_NJ
YMHA.pdf



Trophic State Index
Survey - Sawkill Pon

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.	001	Design Flow (MGD)	0.10
Latitude	41° 20' 57.13"	Longitude	-74° 53' 30.51"
Quad Name	Edgemere	Quad Code	0846
Wastewater Description: Sewage Effluent			
Receiving Waters	Sawkill Pond (EV, MF)	Stream Code	5241 (Sawkill Stream)
NHD Com ID	26143204	RMI	7.75
Drainage Area	3.27 mi ²	Yield (cfs/mi ²)	0.10
Q ₇₋₁₀ Flow (cfs)	0.327	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	1,215	Slope (ft/ft)	-
Watershed No.	1-D	Chapter 93 Class.	EV, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	-		
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)	≈ 70

Treatment Facility Summary				
Treatment Facility Name: New Jersey Y Camps WWTF				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Chlorination	0.057 (2017-2019)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.167 Permitted for 0.10	217	Not Overloaded	Sludge Holding Tank	Hauled

Compliance History

DMR Data for Outfall 001 (from June 1, 2019 to May 31, 2020)

Parameter	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19
Flow (MGD) Average Monthly									0.3	0.069		
Flow (MGD) Daily Maximum									0.37	0.106		
pH (S.U.) Minimum									7.49	6.16		
pH (S.U.) Maximum									8.25	8.04		
DO (mg/L) Minimum									9.1	7.0		
TRC (mg/L) Average Monthly									< 0.01	< 0.03		
TRC (mg/L) Instantaneous Maximum									< 0.01	0.2		
CBOD5 (mg/L) Average Monthly									4.2	6.7		
TSS (mg/L) Average Monthly									12.8	9.7		
Fecal Coliform (CFU/100 ml) Geometric Mean									10	< 5		
Fecal Coliform (CFU/100 ml) Instantaneous Maximum									10	27		
Nitrate-Nitrite (lbs/day) Annual Average						12						
Nitrate-Nitrite (mg/L) Annual Average						17.7						
Total Nitrogen (lbs/day) Annual Average						14						
Total Nitrogen (mg/L) Annual Average						20						
Ammonia (mg/L) Average Monthly									< 0.2	< 0.5		
TKN (lbs/day) Annual Average						1.5						

**NPDES Permit Fact Sheet
New Jersey Y Camps WWTF**

NPDES Permit No. PA0029807

TKN (mg/L) Annual Average						2.31						
Total Phosphorus (mg/L) Average Monthly									2.1	4.0		

Compliance History

Effluent Violations for Outfall 001, from: July 1, 2019 To: May 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Phosphorus	08/31/19	Avg Mo	4.0	mg/L	2.0	mg/L
Total Phosphorus	09/30/19	Avg Mo	2.1	mg/L	2.0	mg/L

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 20' 57.00"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.1
Longitude -74° 53' 26.00"

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
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.32	Average Monthly	TRC Calculation Spreadsheet
	1.0	IMAX	
Dissolved Oxygen	7.0	Minimum	Previous Permit
CBOD ₅	10.0	Average Monthly	
	20.0	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	1.0	Average Monthly	
	2.0	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	3.0	Average Monthly	
	6.0	IMAX	
Total Phosphorus	1.0	Average Monthly	Sawkill Pond Trophic State Index Survey (January 30, 2020)
	2.0	IMAX	

Anti-Backsliding

No limitations were made less stringent.