



Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0042641

APS ID

1125715

Authorization ID

1506487

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

Applicant Name	PA DCNR State Parks Bureau	Facility Name	Nockamixon State Park STP
Applicant Address	2808 Three Mile Run Road	Facility Address	1542 Mountain View Drive
	Perkasie, PA 18944-2065		Perkasie, PA 18944
Applicant Contact	Bilal Baqqai	Facility Contact	Obie Derr
Applicant Phone	(215) 453-5019	Facility Phone	(215) 529-7300
Client ID	64584	Site ID	452366
Ch 94 Load Status	Not Overloaded	Municipality	Haycock Township
Connection Status	No Limitations	County	Bucks
Date Application Received	October 25, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	Renewal.		

Summary of Review

The permittee has submitted a renewal for their treated sewage discharge into unnamed tributary to Tohickon Creek (CWF, MF) through Outfall 001.

The facility is the sewage treatment plant that serves Nockamixon State Park. The collection system includes Bucks County Tech vocation school, few houses, the park and cabins. Influent flow goes through bar screen/comminutor before entering pre-eq tank followed by dual basin SBR's. Treated effluent is decanted from SBR's to a post equalization tank prior to discharge to chlorine contact tank and then to outfall. Solids are wasted to aerobic digester.

The site visit was conducted on 03/19/2025. The violations are noted below:

- 25 Pa. Code 91.34(a):** Failure to take necessary measures to prevent pollutants from causing injury or from directly or indirectly reaching waters of the Commonwealth.
Sodium hypochlorite tank leaking.
- 25 Pa. Code 92a.41(a)(10):** Failure to collect representative samples.
Effluent samples are not flow proportional.
- 25 Pa. Code 92a.41(a)(12):** Failure to submit monitoring reports or properly complete monitoring reports.
Daily Effluent Supplemental Form needs to be submitted monthly.

No changes in effluent quality or quantity.

Approve	Deny	Signatures	Date
X		<i>Begay Omuralieva</i> Begay Omuralieva / Environmental Engineering Specialist	July 24, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	07/24/2025

Summary of Review

All previously established effluent limits and monitoring requirement will be proposed

Page 6 of this fact sheet shows development of previously established limits. Since there are no changes to quality and quantity of wastewater all existing limits, and monitoring requirements are proposed in the draft permit except quarterly E.Coli monitoring based on statewide requirements for collecting data.

Act 14 Notification: Bucks County Commissioners has received on 10/21/2024
Bedminster Township has received on 10/18/2024

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)	0.02
Latitude	40° 28' 0.66"	Longitude	-75° 11' 14.90"
Quad Name	Bedminster	Quad Code	1544
Wastewater Description:	Sewage Effluent from Nockamixon State Park STP		
Receiving Waters	Unnamed Tributary to Tohickon Creek (CWF, MF)	Stream Code	03153
NHD Com ID	26031024	RMI	0.4
Drainage Area	1.55 sq mi	Yield (cfs/mi ²)	0.006
Q ₇₋₁₀ Flow (cfs)	0.009	Q ₇₋₁₀ Basis	StrteamStat*
Elevation (ft)	373	Slope (ft/ft)	
Watershed No.	2-D	Chapter 93 Class.	CWF, MF
Existing Use	Cold Water Fishes, Migratory Fishes	Existing Use Qualifier	
Exceptions to Use	None	Exceptions to Criteria	

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from March 1, 2024 to February 28, 2025)

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
Flow (MGD)												
Average Monthly	0.043	0.017	0.038	0.011	0.021	0.031	0.018	0.013	0.021	0.032	0.062	0.092
pH (S.U.)												
Instantaneous Minimum	6.7	7.2	6.7	6.9	6.7	6.5	6.6	6.8	6.9	6.6	6.7	6.7
pH (S.U.)												
Instantaneous Maximum	7.7	7.7	7.9	7.4	7.5	7.4	7.6	7.5	7.5	7.3	7.5	7.7
DO (mg/L)												
Instantaneous Minimum	8.6	8.1	7.3	6.8	7.4	6.8	6.4	6.8	6.6	8.3	6.6	8.6
TRC (mg/L)												
Average Monthly	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	< 0.1	0.1
CBOD5 (lbs/day)												
Average Monthly	3	2	1	1.0	1	1	1	2	1	7	2	6
CBOD5 (lbs/day)												
Raw Sewage Influent Average Monthly	9	6	7	9	5	7	8	11	6	9	7	8
CBOD5 (mg/L)												
Average Monthly	10	11	15	6	4	5	12	17	9	15	5	7
CBOD5 (mg/L)												
Raw Sewage Influent Average Monthly	30	40	32	80	44	47	65	95	43	38	22	16
CBOD5 (mg/L)												
Daily Maximum	14	27	35	8	9	10	28	27	15	57	8	11
TSS (lbs/day)												
Average Monthly	3	1	2	1.0	0.51	2	1	2	1	2	6	7
TSS (lbs/day)												
Raw Sewage Influent Average Monthly	10	6	9	10	8	9	8	13	10	14	9	8
TSS (mg/L)												
Average Monthly	10	9	9	8	8	8	8	8	12	8	12	9

NPDES Permit Fact Sheet
Nockamixon State Park STP

NPDES Permit No. PA0042641

TSS (mg/L) Raw Sewage Influent Average Monthly	39	40	47	83	88	56	64	121	96	61	28	16
TSS (mg/L) Daily Maximum	12	11	10	8	8	8	8	8	20	8	20	10
Total Dissolved Solids (lbs/day) Average Quarterly			41			38			31			0.06
Total Dissolved Solids (mg/L) Average Quarterly			769			346			318			0.23
Fecal Coliform (No./100 ml) Geometric Mean	10	14	21	43	12	10	12	12	28	9	30	19
Fecal Coliform (No./100 ml) Instantaneous Maximum	10	24	24	120	17	15	45	10	185	15	170	90
Ammonia (lbs/day) Average Monthly	0.6	0.10	0.03	2.0	0.05	0.43	1.0	1.0	0.12	0.27	0.37	0.34
Ammonia (mg/L) Average Monthly	0.8	0.34	0.19	3.0	1.5	1.5	0.07	0.3	1.0	1.0	1.0	1.0
Total Phosphorus (lbs/day) Average Monthly	0.05	0.04	0.14	0.15	0.064	1	0.07	0.08	0.06	0.10	0.10	0.20
Total Phosphorus (mg/L) Average Monthly	0.271	0.245	0.44	1.0	1.2	1.1	0.559	0.74	0.539	0.36	0.236	0.27

Compliance History

Effluent Violations for Outfall 001, from: April 1, 2024 To: February 28, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	05/31/24	Daily Max	57	mg/L	30	mg/L

Summary of Inspections: [REDACTED]

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 28' 0.44"
Wastewater Description: Sewage Effluent

Design Flow (MGD) .02
Longitude -75° 11' 20.61"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Minimum	Average Monthly	Average Weekly	IMAX	Basis
Flow (MGD)	XXX	Report	Report Max Daily	XXX	§§ 92a.27, 92a.61
CBOD5 (mg/L)	XXX	25	40	50	§92a.47
TSS (mg/L)	XXX	30	45	60	§92a.47
TRC (mg/L)	XXX	0.5	XXX	1.6	§§92a.47-48
NH3-N (mg/L)	XXX	25	XXX	50	BPJ
D.O. (mg/L)	4.0	XXX	XXX	XXX	BPJ
pH (SU)	6.0	XXX	XXX	9.0	§92a.47, §95.2
Total N (mg/L)	XXX	Report	XXX	XXX	92a.61
Total P (mg/L)	XXX	Report	XXX	XXX	92a.61
Fecal Coliform May-Sept (No./100 ml)	XXX	200 Geo Mean	XXX	1,000	§92a.47
Fecal Coliform Oct-April (No./100 ml)	XXX	2,000 Geo Mean	XXX	10,000	§92a.47

WQBELs:

10% Fecal Coliform Rule:

Following special requirement was added to Part C of the permit, based on the condition that discharge not direct to the Delaware River main stem:

The seasonal effluent limitations for fecal coliform are based on Chapter 92a (§ 92a.47(4) & (5)) of DEP's regulations and Delaware River Basin Commission's (DRBC's) Water Quality Regulations at § 4.30.4.A. DEP's regulations govern the summer limits for fecal coliform while the winter limits are based on DRBC's regulations. The DRBC regulations state that during winter season from October through April, the instantaneous maximum concentration of fecal coliform organisms shall not be greater than 1,000 per 100 milliliters in more than 10 percent of the samples tested. For reporting purposes, a copy of the guidelines on the 10 percent rule is enclosed with the permit.

TDS:

Based on Guidance: "Policy and Procedure for NPDES Permitting of Discharges of Total Dissolved Solids (TDS) -- 25 Pa. Code §95.10" that became effective on August 21, 2010, monitoring for TDS is included in the proposed draft. This guidance applies to all discharges of wastewater in the Commonwealth of Pennsylvania subject to regulation under Chapter 92a (NPDES Permitting, Monitoring and Compliance) and Chapter 95 (Wastewater Treatment Requirements).

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	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6 Inst Min	XXX	XXX	9	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/day	Grab
CBOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
CBOD5 Nov 1 - Apr 30	42	XXX	XXX	25	40	50	1/week	24-Hr Composite
CBOD5 May 1 - Oct 31	33	XXX	XXX	20	30	40	1/week	24-Hr Composite
TSS	50	XXX	XXX	30	45	60	1/week	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Dissolved Solids	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Fecal Coliform (No./100 ml) Nov 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Oct 31	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab

Outfall 001 , Continued (from 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	Daily Maximum	Instant. Maximum		
Ammonia Nov 1 - Apr 30	7.0	XXX	XXX	4.0	XXX	8	1/week	24-Hr Composite
Ammonia May 1 - Oct 31	3.0	XXX	XXX	2.0	XXX	4	1/week	24-Hr Composite
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
E. Coli (No./100 ml)	XXX	XXX	XXX	Report Ave. Qrtly	XXX	Report	1/quarter	Grab

Compliance Sampling Location: Outfall 001.