

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

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0244040  
APS ID 1130430  
Authorization ID 1515110

### Applicant and Facility Information

Applicant Name <u>Shelly Square LP</u>	Facility Name <u>Shelly Square Shopping Center</u>
Applicant Address <u>528 Main Street Suite 200</u> <u>Harleysville, PA 19438-2266</u>	Facility Address <u>Rte 63 &amp; Shelly Road</u> <u>Salfordville, PA 18958</u>
Applicant Contact <u>Bryan Hunsberger</u>	Facility Contact <u>Bryan Hunsberger</u>
Applicant Phone <u>(215) 513-7368</u>	Facility Phone <u>(215) 513-7368</u>
Client ID <u>242801</u>	Site ID <u>631736</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Upper Salford Township</u>
Connection Status <u>No Limitations</u>	County <u>Montgomery</u>
Date Application Received <u>January 27, 2025</u>	EPA Waived? <u>Yes</u>
Date Application Accepted _____	If No, Reason _____
Purpose of Application <u>Renewal</u>	

### Summary of Review

The applicant has applied for NPDES permit to discharge treated sewage from sewage treatment plant serving Shelly Square Shopping Center into East Branch of Perkiomen Creek.

The STP treats wastewater from several businesses at the Shelly Square shopping Center: Landis Supermarket, H&R Block, Energy Station Restaurant, H/S Therapy Associates, K's Nails, Quality Cleaners, Alderfer Real Estate, Marvis Tire center, Super Cuts, Pelleritos Rizza, China Moon, and Univest Bank.

The facility (15,000 gpd) consists of influent Sampler, an equalization tank section with bar screen, treatment train – BESST Process by Purestream, Inc. (rated 12,2446 gpd), sludge holding tank (6395 gallons), Effluent Filter, UV disinfection Unit, Control Building, chemical storage and pumps, and effluent sampling and metering facility.

E.Coli report only requirement has been added in the permit as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

Flow has been changed to weekly monitoring based on the daily flow and SOP.

There are no changes to the influent characteristics, treatment units, stream designation, effluent quality etc. The existing permit limits are recommended for the renewed permit.

#### 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*,

Approve	Deny	Signatures	Date
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	July 2, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	07/03/2025

Summary of Review

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)	.012446
Latitude	40° 17' 47.56"	Longitude	-75° 24' 54.85"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	East Branch Perkiomen Creek (TSF, MF)	Stream Code	01168
NHD Com ID	25987682	RMI	6.31 mi
Drainage Area	47.53	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	0.43	Q <sub>7-10</sub> Basis	
Elevation (ft)	180.000 Ft	Slope (ft/ft)	
Watershed No.	3-E	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	

Changes Since Last Permit Issuance: No changes since last renewal

Treatment Facility Summary				
Treatment Facility Name: Shelly Square STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Activated Sludge With Solids Removal	Ultraviolet	12446
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
16553	98.32	Not Overloaded	Aerobic Digestion	Other WWTP

Compliance History

DMR Data for Outfall 001 (from June 1, 2024 to May 31, 2025)

Parameter	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24
Flow (MGD) Average Monthly	0.00322	0.00299	0.00332	0.00339	0.00312	0.00354	0.00362	0.0032	0.0036	0.00341	0.00365	0.00332 2
Flow (MGD) Daily Maximum	0.00534	0.00475	0.00635	0.00592	0.00503	0.00685	0.00601	0.00492	0.00523	0.0091	0.0056	0.00413
pH (S.U.) Instantaneous Minimum	7.1	7.1	6.8	6.3	6.4	6.6	6.6	6.6	6.4	6.5	6.4	6.1
pH (S.U.) Instantaneous Maximum	7.6	7.4	7.4	7.3	7.3	7.3	7.1	7.2	7.2	7.4	7.3	7.1
DO (mg/L) Instantaneous Minimum	6.5	8.5	8.6	10.9	10.7	10.5	9.9	7.7	6.9	6.2	6.1	6.1
CBOD5 (mg/L) Average Monthly	2.0	2.5	2.0	2.0	2.2	2.4	2.0	2.0	2.0	2.2	2.3	3.0
TSS (mg/L) Average Monthly	3.2	3.5	1.3	6.0	3.6	7.4	4.5	5.0	11.3	3.8	4.8	20.0
Total Dissolved Solids (mg/L) Average Monthly	1296.0	1266.0	1194.0	1210	1128	1084.0	1094.0	1060.0	1180.0	1098.0	1146.0	1462.0
Oil and Grease (mg/L) Average Monthly	< 5.0	20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Fecal Coliform (No./100 ml) Average Monthly	< 1.0	< 1.0	1.0	2.0	< 1.0	< 1.0	10.0	5.0	2.0	59.0	8.0	4.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1.0	< 1.0	4.0	20.0	< 1.0	< 1.0	45.0	50.0	20.0	200.0	108.0	26.0
UV Intensity (mW/cm²) Daily Minimum	0.1	0.10	0.1	0.1	0.10	0.10	0.10	0.1	0.1	0.10	0.10	0.1
Total Nitrogen (mg/L) Average Monthly	5.85	4.63	15.77	13.29	10.05	0.88	1.71	8.59	2.51	2.8	13.9	3.55
Ammonia (mg/L) Average Monthly	0.04	0.10	0.40	1.6	1.3	2.6	0.05	0.10	0.20	0.10	0.80	0.20

**NPDES Permit Fact Sheet**  
**Shelly Square Shopping Center**

**NPDES Permit No. PA0244040**

Total Phosphorus (mg/L) Average Monthly	0.07	0.07	0.08	0.13	0.23	0.10	0.12	0.090	0.21	0.05	0.16	0.29
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**Compliance History**

**Effluent Violations for Outfall 001, from: July 1, 2024 To: May 31, 2025**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Ammonia	02/28/25	Avg Mo	1.6	mg/L	1.5	mg/L
Ammonia	12/31/24	Avg Mo	2.6	mg/L	1.5	mg/L
Ammonia	02/28/25	Avg Mo	1.6	mg/L	1.5	mg/L
Ammonia	02/28/25	Avg Mo	1.6	mg/L	1.5	mg/L

Summary of Inspections: No violations were noted during 12/16/2024 inspection.

**Development of Effluent Limitations**

<b>Outfall No.</b>	001	<b>Design Flow (MGD)</b>	.012446
<b>Latitude</b>	40° 17' 48.00"	<b>Longitude</b>	-75° 24' 55.00"
<b>Wastewater Description:</b> Sewage Effluent			

**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
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

**Water Quality-Based Limitations**

*E. Coli:*

E.Coli report only requirement has been added as once a year monitoring in the permit as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Daily Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/week	Grab
CBOD5	XXX	XXX	XXX	15	XXX	30	1/week	24-Hr Composite
TSS	XXX	XXX	XXX	15	XXX	30	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/week	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
UV Intensity (mW/cm <sup>2</sup> )	XXX	XXX	Report	XXX	XXX	XXX	1/week	Metered
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia	XXX	XXX	XXX	1.5	XXX	3	1/week	24-Hr Composite

Outfall 001 , Continued (from Permit Effective Date through Permit Expiration Date )

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Daily Minimum	Average Monthly	Maximum	Instant. Maximum		
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1	1/week	24-Hr Composite





Approve	Deny	Signatures	Date
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	July 2, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	07/03/2025