



Application Type
Facility Type
Major / Minor

New
Industrial
Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. **PA0281972**
APS ID **1137340**
Authorization ID **1527214**

Applicant and Facility Information

Applicant Name	Lower Paxton Township Dauphin County		
Applicant Address	425 Prince Street Suite 139	Facility Name	Friendship Branch YMCA
	Harrisburg, PA 17109-3054	Facility Address	5000 Commons Drive
Applicant Contact	William Weaver	Facility Contact	William Weaver
Applicant Phone	(717) 657-5600	Facility Phone	(717) 657-5600
Client ID	77433	Site ID	880124
SIC Code	7991	Municipality	Lower Paxton Township
SIC Description	Services - Physical Fitness Facilities	County	Dauphin
Date Application Received	<u>May 14, 2025</u>	EPA Waived?	Yes
Date Application Accepted	<u>May 22, 2025</u>	If No, Reason	
Purpose of Application	<u>NPDES discharge of treated pool filter backwash water.</u>		

Summary of Review

Permit Background:

This is a new application for a NPDES Individual Industrial Waste (IW) permit located in Lower Paxton Township, Dauphin County. See Figures 1, 2, and 3 for a Site Plan and Treatment System Drawings.

In July 2024, DEP became aware that the YMCA Friendship Center (facility) and associated indoor aquatics facilities have been discharging untreated pool filter backwash water to a stormwater inlet on the property, which leads to an on-site detention basin and eventually UNT 10167 to Paxton Creek. Lower Paxton Township (LPT) noted that the discharge has been occurring since the facility began operating in 1998.

In September 2024, LPT's consultant, Herbert, Rowland, & Grubic, Inc. (HRG), contacted DEP to begin discussions on how to proceed with permitting the facility's discharge. LPT and HRG planned to install a de-chlorination unit to treat the total residual chlorine in the facility's discharge. DEP notified LPT and HRG that the facility would need to be covered under an IW permit for the discharge of the treated pool backwash water. DEP did not require a Water Quality Management (WQM) permit for the installation of the de-chlorination unit since the unit is an off the shelf installation.

A new IW application was received on 5/14/2025 via PUP 317801. The application was deemed complete on 5/22/2025.

Facility Description:

The facility is the YMCA Friendship Center located in Lower Paxton Township, Dauphin County. The facility contains an indoor lap pool, leisure pool, and spa. The facility is owned by LPT. The facility's SIC code is 7991, Physical Fitness Facilities.

Approve	Deny	Signatures	Date
X		Jacob S. Rakowsky Jacob S. Rakowsky, E.I.T. / Project Manager	6/25/2025
X		Scott M. Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	6/25/2025

Summary of Review

Outfall Description:

The facility has one outfall, Outfall 001. Water from the Friendship Center YMCA lap pool, spa, and leisure pool is used to backwash the existing pool filters. Water is pumped in the reverse direction through the pool filters and is discharged into an existing drainage sump. Through the sump, water flows by gravity through an existing storm sewer system (at inlet N-8263) into a detention basin (DB033). Outfall 001 is located at an inlet just upstream of DB033 (at inlet N-8257). Please refer to Figure 1 for a Site Plan.

Under PA0281972, the pool filter backwash water will be treated through the retrofit of the existing pump room drain sump with a baffle wall, PVC standpipe, and three (3) de-chlorination tablet feeders (see Figures 2 and 3 for Treatment System Drawings). Reaction time for the de-chlorination tablets is achieved through the existing storm sewer prior to discharge into DB033. Flows from the facility are discharged once per week, for 3-5 minutes for an estimated total volume of 2700 gallons. DB033 is designed to sequester up to a 100-yr storm event. Discharges from the basin are not expected during dry weather. If the facility were to discharge during a large storm event and the treated water were to commingle with stormwater, the basin may discharge on occasion, but the water leaving the basin would be diluted and would receive further treatment from the basin.

Additional Info:

Part C permit conditions require semi-annual site inspections as well as implementation of BMPs and implementation of the facility PPC Plan. Given the BMPs in place, the discharge is not expected to have any measurable effect on the water quality of the receiving stream.

The EPA waiver is in effect.

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)	.0027
Latitude	40° 18' 32"	Longitude	-76° 48' 30"
Wastewater Description: Treated pool filter backwash water.			
Receiving Waters	Unnamed Tributary to Paxton Creek (WWF, MF)	Stream Code	10167
NHD Com ID	56401069	RMI	2.01
Drainage Area	0.054 sq. mi.	Yield (cfs/mi ²)	
Watershed No.	7-C	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	PATHOGENS		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final	Name	Paxton Creek
Nearest Downstream Public Water Supply Intake		Steelton Borough Water Authority	
PWS Waters	Susquehanna River	Municipality	Steelton Borough, Dauphin County
PWS RMI	53.0	Distance from Outfall (mi)	12.0

Outfall 001 receives discharge from treated pool filter backwash water at inlet N-8257. Inlet N-8257 also receives stormwater from a 145,749 SF drainage area that is 70% impervious and consists of a parking lot and vegetated area. Samples shall only be taken during dry weather to avoid commingling with stormwater.

A PCSM infiltration basin with amended soils provides additional treatment downstream of Outfall 001.

Treatment Facility Summary				
Treatment Facility Name: YMCA Friendship Center Pump Room				
Discharge Characterization:				
Outfall No.	Discharge Type	Waste Flow Pattern	Design Flow (MGD)	Annual Average Flow (MGD)
001	Batch	1/week 3-5 minutes per discharge Estimated total flow volume of 2700 gals per discharge	0.0027	0.0027
Treatment Information:				
Chemical Name	Purpose	Treatment Method	No. of Tablets	
Norweco Biomax	De-chlorination (92% Sodium Sulfite)	Tablet Installation	3	

See Figures 2 and 3 for Treatment System Drawings.

Compliance History	
Summary of DMRs:	<p>Since this is an application for a new permit, DMR data is not available. A summary of application sampling results can be found in Table 1 below. Please note the sampling results are for untreated water.</p> <p>The facility was required to submit E. coli and Fecal Coliform impairment sampling results due to the pathogens impairment of the receiving water. The facility was required to submit TSS impairment sampling results due to the siltation, TSS, and turbidity TMDL of the receiving water. The facility was required to submit TP impairment sampling results due to the Phosphorus impairment of the receiving water. The discharge is not expected to cause or contribute to the impairments.</p>
Summary of Inspections:	<p>Since this is an application for a new permit, inspections have not yet been conducted at the site.</p> <p>The client currently has no open violations that should affect issuance of the final permit.</p>

Table 1. Outfall 001 Untreated Sample Results

Pollutant	Avg. Conc.	Min/Max Conc.	No. Non-Detect Results	No. Events Sampled
BOD5 (mg/L)	36.8	36.8	1	3
TSS (mg/L)	8	10	0	3
Ammonia-Nitrogen (mg/L)	ND	ND	3	3
pH min (S.U.)	7.46	7.16	0	3
pH max (S.U.)	7.46	7.91	0	3
Fecal Coliform (no./100mL)	ND	ND	3	3
Oil and Grease (mg/L)	7.7	7.9	1	3
TRC (mg/L)	5.67	8.8	0	3
TP (mg/L)	0.81	0.84	0	3
TDS (mg/L)	891	966	0	3

Proposed Effluent Limitations and Monitoring Requirements

Table 2. Proposed Monitoring Requirements for Outfall 001:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC (mg/L)	XXX	XXX	XXX	XXX	Report	0.5	1/month	Grab
BOD5 (mg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
TSS (mg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
TDS (mg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001 (Inlet N-8257)

Other Comments: Special conditions applicable to TRC and effluent sampling are included in Part C.I. of the permit.

Antidegradation (93.4):

The applicant is not proposing a new or increased discharge to a High Quality (HQ) or Exceptional Value (EV) water, so Module 1 (Anti Degradation Module) was not attached to the application. The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. Best Management Practices will ensure that the existing instream uses are protected. No Exceptional Value Waters are impacted by this discharge.

The existing use of the receiving waters are as follows:

UNT to Paxton Creek (WWF, MF)



Figure 1. Site Plan

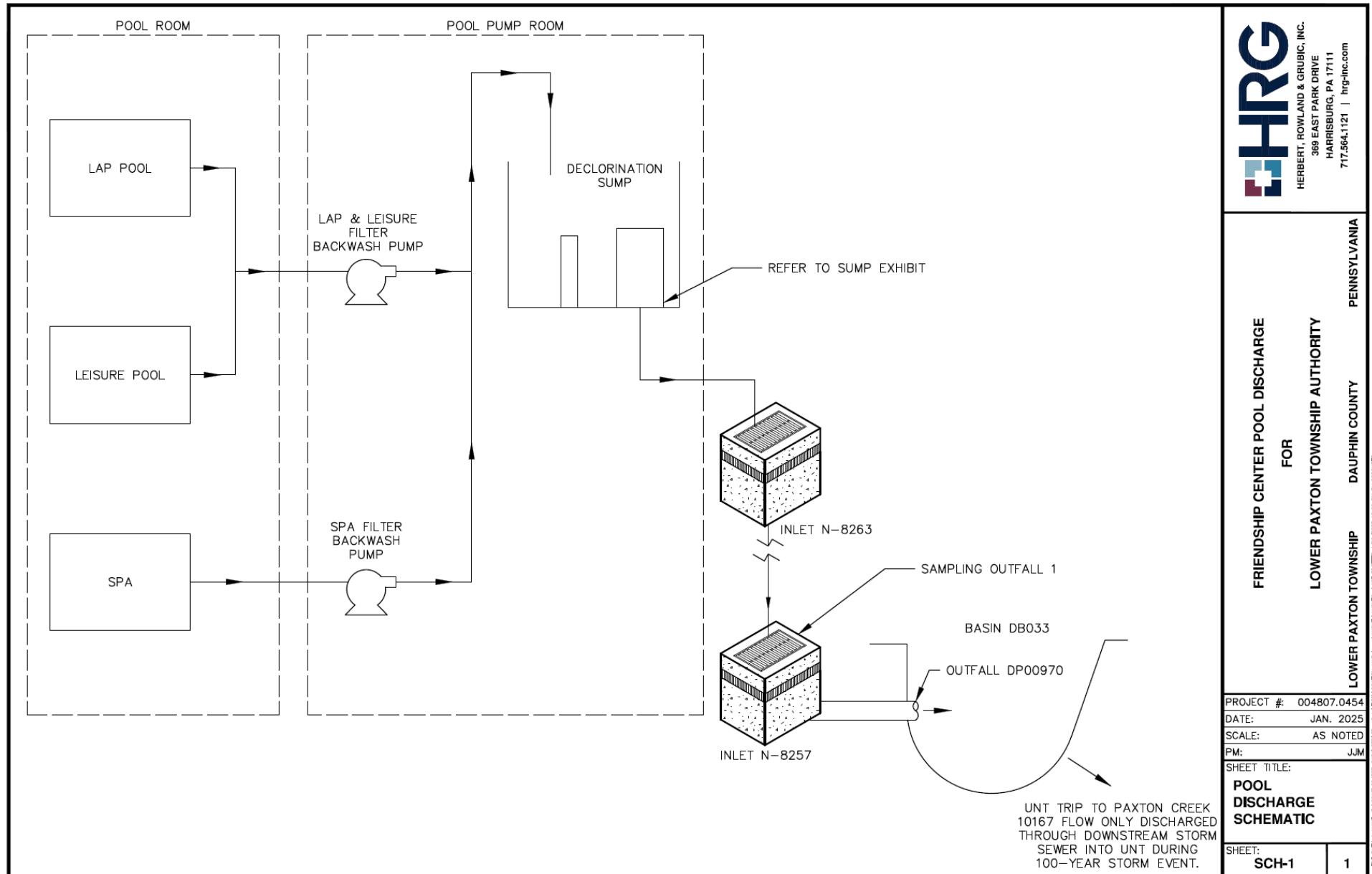
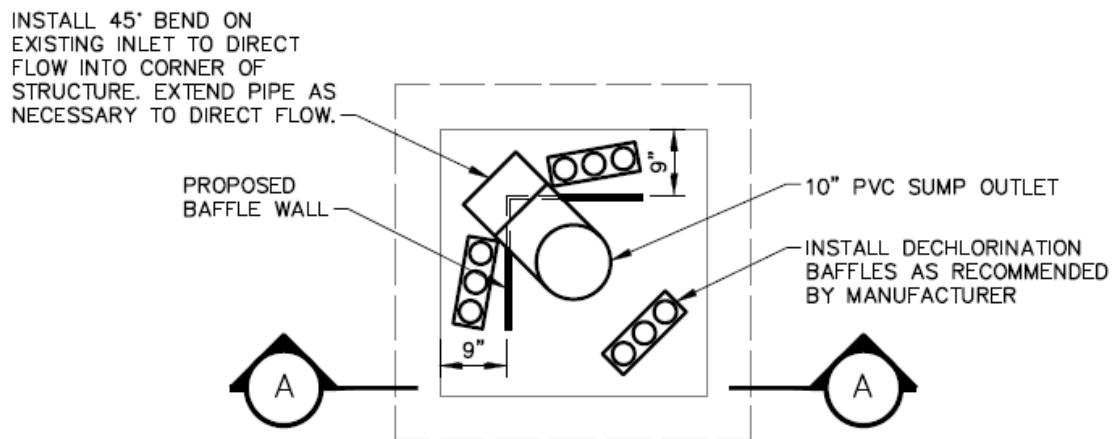
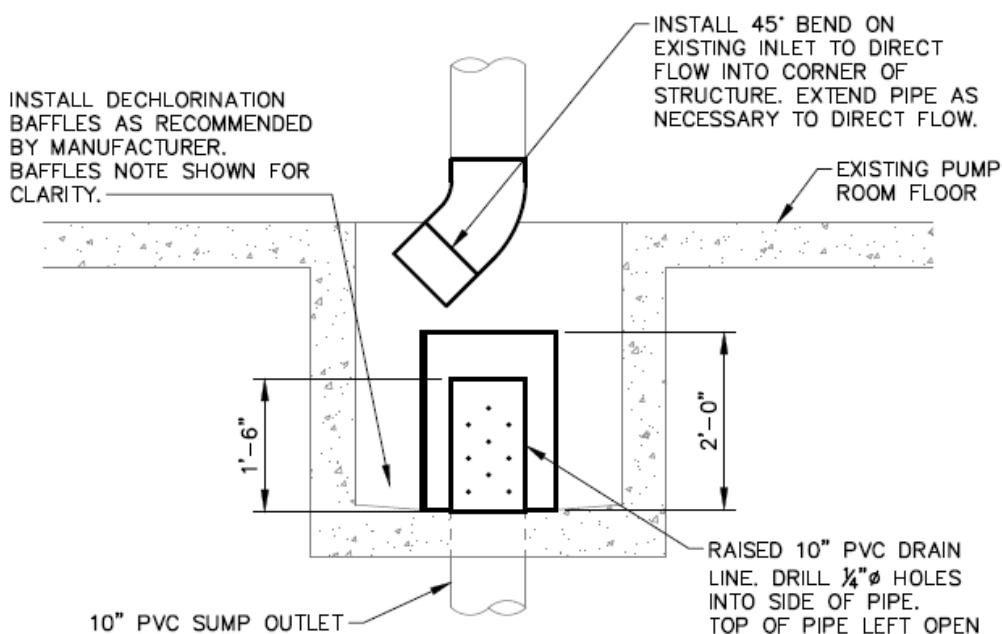


Figure 2. Pool Discharge Schematic



PLAN VIEW

SCALE: 1/2" = 1'-0"



SECTION A-A

SCALE: 1/2" = 1'-0"

PROJECT #:	004807.0450
DATE:	OCT. 2024
SCALE:	AS NOTED
PM:	JJM
SHEET:	1 1

**FRIENDSHIP CENTER POOL DISCHARGE
LOWER PAXTON TOWNSHIP AUTHORITY
425 PRINCE STREET
HARRISBURG, PA 17109**
LOWER PAXTON TOWNSHIP, DAUPHIN COUNTY, PENNSYLVANIA



HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111
717.564.1121 | hrg-inc.com

Figure 3. Sump Exhibit