Pennsylvania Department of Environmental Protection

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0060186**
Facility Type	**Non-Municipal**	APS ID	**613253**
Major / Minor	**Minor**	Authorization ID	**1507814**

Applicant and Facility Information

Applicant Name	**Elk Meadows Homeowners Association Inc.**	Facility Name	**Elk Meadows Homeowners Association**
Applicant Address	160 Lake Drive	Facility Address	Lake Drive
	Union Dale, PA 18470-7294		Uniondale, PA 18470
Applicant Contact	Jacquelyn Neary	Facility Contact	Tara Roche
Applicant Phone	(856) 373-1833	Facility Phone	(570) 341-6738
Client ID	160091	Site ID	743804
Ch 94 Load Status	Not Overloaded	Municipality	Herrick Township
Connection Status		County	Susquehanna
Date Application Received	November 19, 2024	EPA Waived?	Yes
Date Application Accepted	November 30, 2024	If No, Reason	

Purpose of Application: Renewal of NPDES Permit to discharge treated sewage effluent.

Summary of Review

The applicant is requesting to renew the existing NPDES permit to discharge up to .023mgd of treated sewage effluent to Tributary 29081 to East Branch Tunkhannock Creek, a Cold-Water Fishes, Migratory Fishes (CWF, MF) receiving water in PA State Water Plan Basin 4-F (Tunkhannock Creek). Per the Department's current existing use list, the receiving stream does have an existing use classification that is more protective than the designated use. The stream has been upgraded to a High-Quality Stream due to Class A Wild Trout. This discharge is not expected to affect public water supplies or the upgraded existing use connotation.

The system for the facility is as follows: Raw sewage enters through a bar screen and comminutor and then flows to an aeration basin. Mixed liquor flows to a clarifier where the sludge settles. Sludge is either pumped to the head of the aeration basin as RAS or to the sludge holding tank as WAS. Clarifier effluent flows to sand filters and then gets disinfected with chlorine and gets discharged through Outfall 001. The facility reports adding Soda Ash for pH stabilization.

DEP Biologist indicated 7/25/2019 site visit confirmed that the stream was dry at the discharge and upstream. DEP indicated there was no reason to change the Point of First Use from previous permitting (small downstream pond).

There are no representative stream gages in the vicinity of the outfall. The default LFY of 0.1 cfs/mi^2 was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment).

$Q_{7\text{-}10}$ for the point of first use was determined using the following equation: Using the outfall's drainage area and the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi^2:

Approve	Deny	Signatures	Date
X		William Hon / Environmental Engineer Specialist	January 27, 2026
X		Edward Dudick, P.E. / Environmental Engineer Manager	January 29, 2026

Summary of Review

$$\frac{0.1\ ft^3/sec}{mi^2} \times .29\ mi^2 = \frac{\mathbf{.029\ ft^3}}{\mathbf{sec}}$$

The facility is located near the Delaware River Basin border with the Chesapeake Bay Basin. There is no DRBC docket for this facility. This facility is not listed on Pennsylvania's Phase 3 Chesapeake Bay Watershed Implementation Plan.

All monitoring & sampling requirements have been verified against Table 6-3 of the Permit Writer's Manual and the SOP for Establishing Effluent Limits in Individual Sewage Treatment Facilities.

E. Coli monitoring requirements will be introduced into the new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05 MGD discharge is found in the SOP for establishing effluent limitations for individual sewage.

TRC modeling recommended more stringent limits. Current limitation is a .30mg/L average monthly and a IMAX of .7mg/L Modeling recommended establishing a minimum average monthly limitation of .13mg/L and a IMAX of .42mg/L. Due to dry stream discharge, TRC water quality modeling was not needed as there is no direct discharge to a stream during low flow conditions. Existing TRC permit limits and Chlorine minimization condition will help protect life during high flow/wet weather conditions when intermittent flows might occur closer to Outfall.

Limitations for pH, $CBOD_5$, Total Suspended Solids, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Ammonia-Nitrogen and DO are water quality-based and carried over from the previous permit. WQM modeling did not recommend stricter limitations for Ammonia-Nitrogen or DO.

Annual monitoring requirements for Total Nitrogen and Total Phosphorus are retained in this permit cycle. Total Nitrogen is a calculation based on the sum of Nitrate-Nitrite as N and Total Kjeldahl Nitrogen.

The following special conditions will be added into the permit:
- Chlorine Minimization
- Dry Streams
- Solids Management

The facility reports .33 dry tons of sludge are hauled offsite on a yearly basis via independent contractor to Greater Hazleton Joint Sewer Authority for proper disposal.

The previous inspection performed at this facility occurred on 4/15/2024 and resulted in zero (0) NOVs. The inspector indicated the facility was in good working conditions with no odors. An Admin/File Review occurred on 12/16/2025 and resulted in two (2) NOVs. There are four (4) total open violations for this facility:

VIOLATION DATE	VIOLATION CODE	VIOLATION
01/21/2021	92A.44	NPDES - Violation of effluent limits in Part A of permit
01/21/2021	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit
12/16/2025	92A.44	NPDES - Violation of effluent limits in Part A of permit
12/16/2025	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports

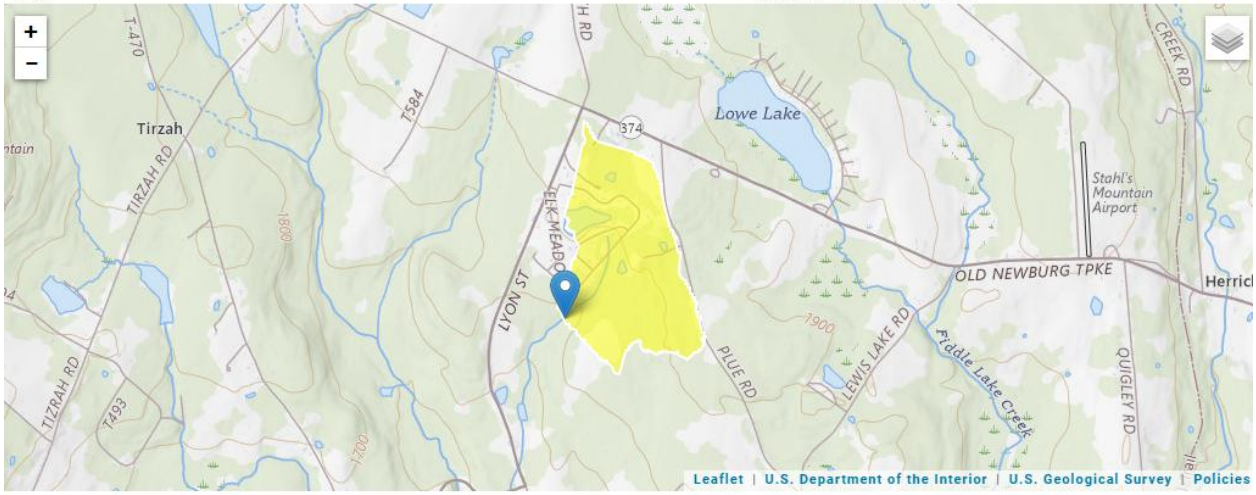
Recommend Approval.

Summary of Review

Modeling Inputs:

Elk Meadows Modeling
PT1 @ Outfall 001, Tributary 29081 to East Branch Tunkhannock Creek,4F, Tunkhannock Creek, HQ-CWF (Existing Use), MF, RMI: 1.2 (For modeling)

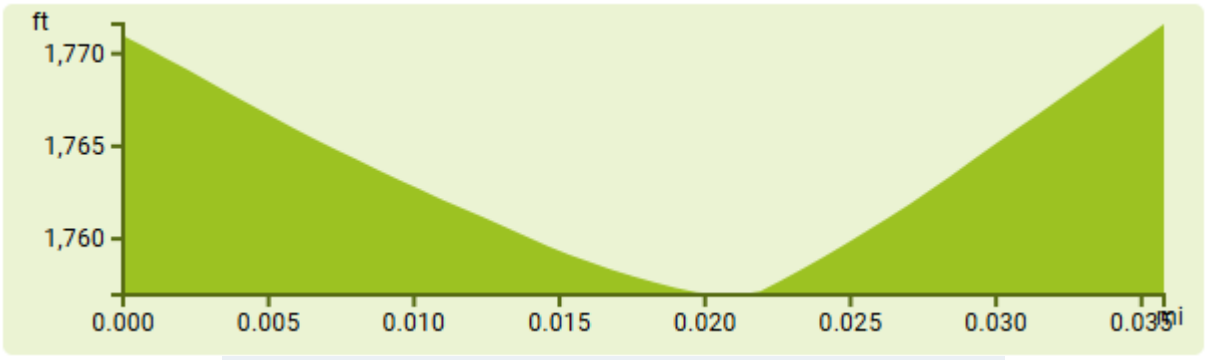
Clicked Point (Latitude, Longitude): 41.74042, -75.53427
Time: 2025-10-10 11:33:00 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.29	square miles
7 Day 10 Year Low Flow		0.00165	ft^3/s



41.74042	-75.53410	1756.98

PT2 @ conflux w/ East Branch Tunkhannock Creek
RMI: .01 for modeling

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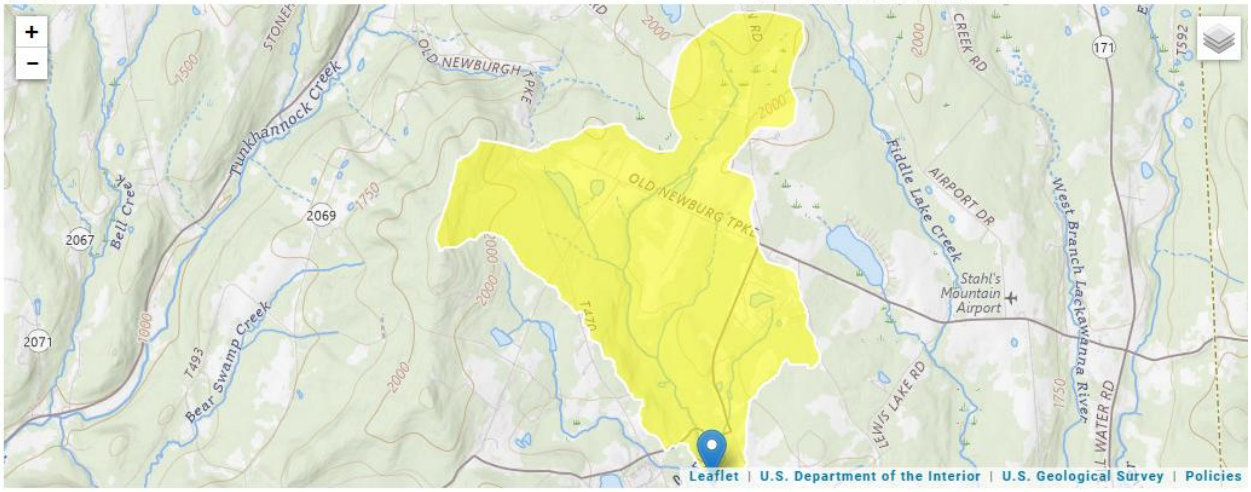
Clicked Point (Latitude, Longitude): 41.72666, -75.53974
Time: 2025-10-10 11:35:36 -0400



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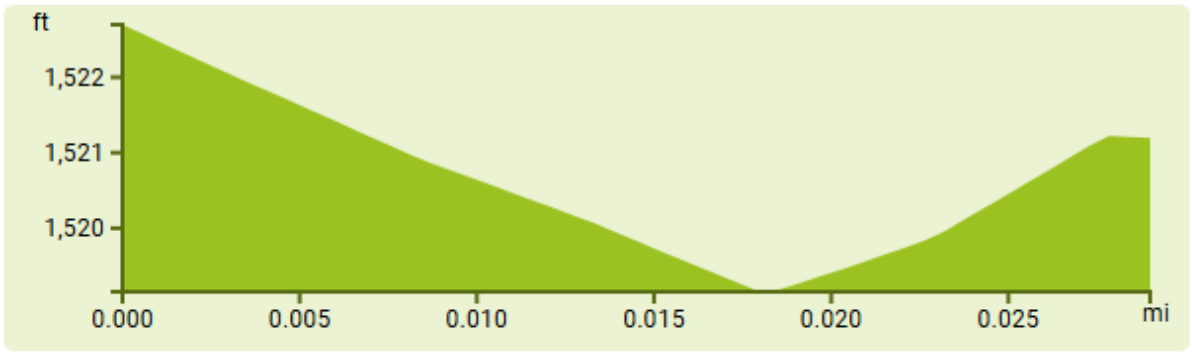
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	4.5	square miles
7 Day 10 Year Low Flow		0.126	ft^3/s

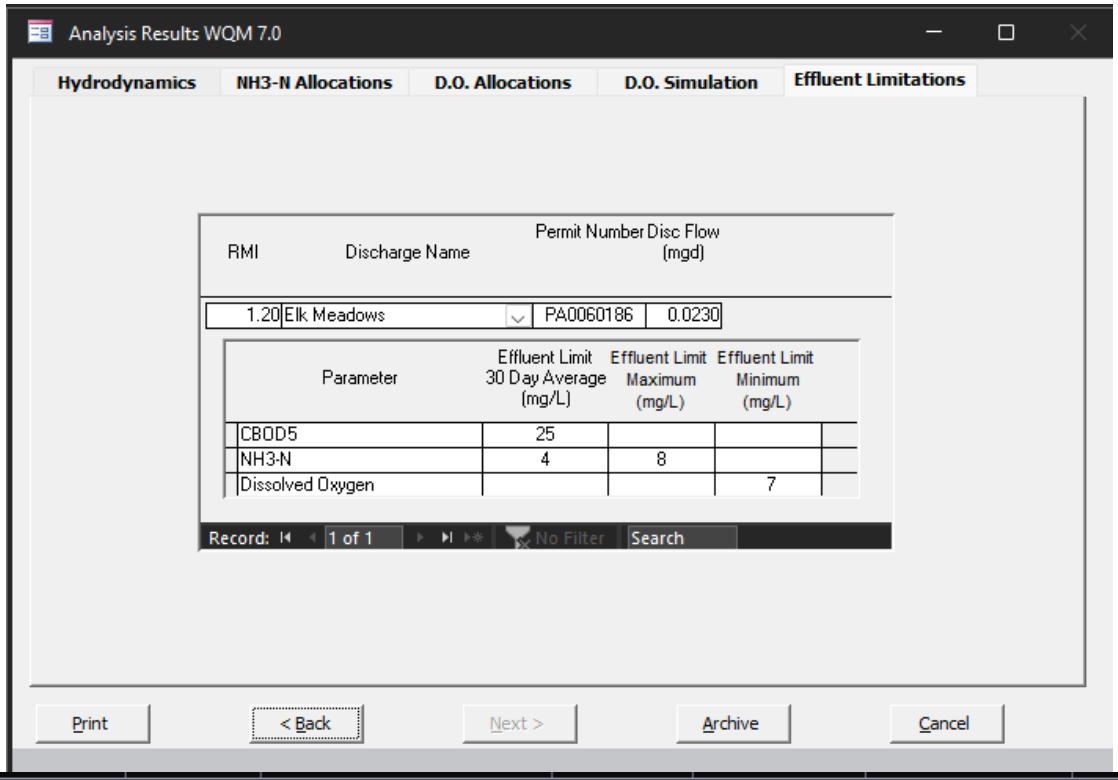


41.72667	-75.53959	1519.16

L7-10 for this facility was found via the below equation. This equation takes into account the dry stream at the point of discharge. Using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi2:

$$\frac{0.1\ ft^3/sec}{mi^2} \times .29\ mi^2 = \frac{\mathbf{.029\ ft^3}}{\mathbf{sec}}$$

Summary of Review



TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.029	= Q stream (cfs)	0.5	= CV Daily
0.023	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.279	1.3.2.iii	WLA cfc = 0.264
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.104	5.1d	LTA_cfc = 0.154

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.128	AFC
		INST MAX LIMIT (mg/l) = 0.418	

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-

Summary of Review
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.