

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0070092
APS ID 504036
Authorization ID 1461250

Applicant and Facility Information

Applicant Name <u>John M & Van Daniel Yetter</u>	Facility Name <u>Evergreen Village MHP</u>
Applicant Address <u>Evergreen Village Cooperative Inc</u> <u>Camp Hill, PA 17001</u>	Facility Address <u>Evergreen Road</u> <u>Upper Mount Bethel Twp, PA 18343</u>
Applicant Contact <u>Kimberly Nicholson</u>	Facility Contact <u>David Scholtz</u>
Applicant Phone <u>(717) 635-2437</u>	Facility Phone <u>(570) 629-2981</u>
Client ID <u>79673</u>	Site ID <u>256354</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Upper Mount Bethel Township</u>
Connection Status _____	County <u>Northampton</u>
Date Application Received <u>November 1, 2023</u>	EPA Waived? <u>Yes</u>
Date Application Accepted _____	If No, Reason _____
Purpose of Application <u>RENEWAL OF EXISTING NPDES PERMIT.</u>	

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.049 MGD of treated sewage into a Tributary 04723 to Allegheny Creek, a CWF, MF (Cold Water Fishery, Migratory Fish) receiving stream in State Water Plan Basin 1-F (Jacoby – Bushkill Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The coordinates provided for Outfall 001 in the new permit application placed the outfall approximately 6 miles north of the site and did not match the previous permit's coordinates for the outfall. Therefore, the old coordinates were used. This is a reoccurring issue as the previous permit application also had this mistake.

The method of disinfection for this facility is with sodium hypochlorite. D-Chlor is used for de-chlorination, and aluminum sulfate is used for coagulation.

Sewage sludge generated from this facility is 4.2 dry tons annually. ~~This~~ sludge is transported off site to a facility in Lehigh County. ~~Part C: 110A Solids Management special conditions~~ has been carried over to this permit from previous permit.

A standard low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

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, and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. TRC limitations from previous permit are carried over ~~recommended~~.

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

Approve	Deny	Signatures	Date
X		William Hon (signed) William Hon / Environmental Engineer Trainee	July 16, 2024
X		Amy M. Bellanca, P.E. / Acting Environmental Manager	7-16-24

Summary of Review

The previous permit expired on 12/31/2023. The renewal application was received and processed by the DEP on 11/14/2023. The previous permit was administratively extended on 11/21/2023 via email. ~~The only existing violation for this client is the late application submission. Last inspection at this facility was on 09/25/2023. There are open violations for this client: with one NOV: NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date. There are no open violations for this client that warrant withholding issuance of this permit.~~

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

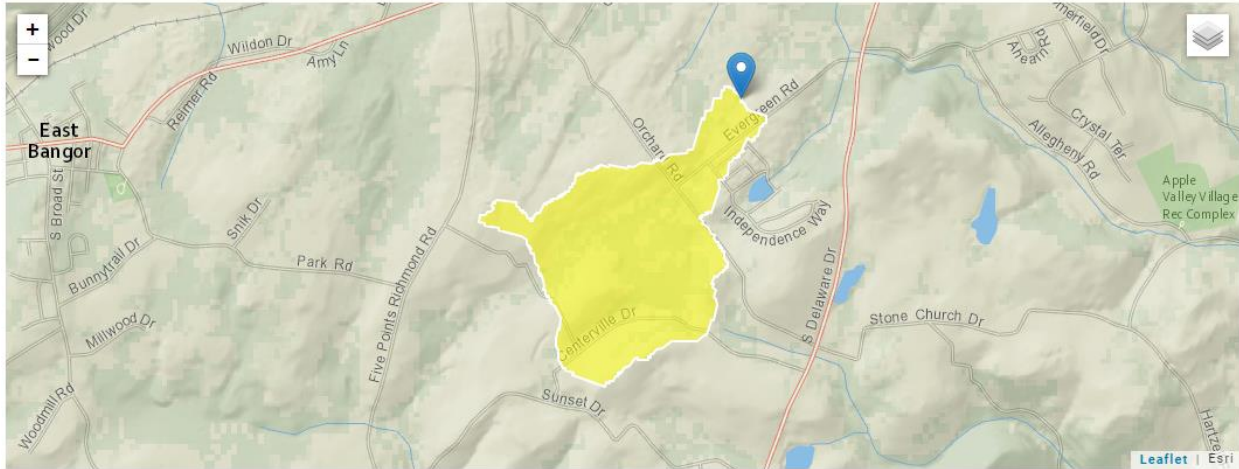
Modeling Inputs:

Pt. 1 at Outfall

L7.10: .1

Clicked Point (Latitude, Longitude):
Time:

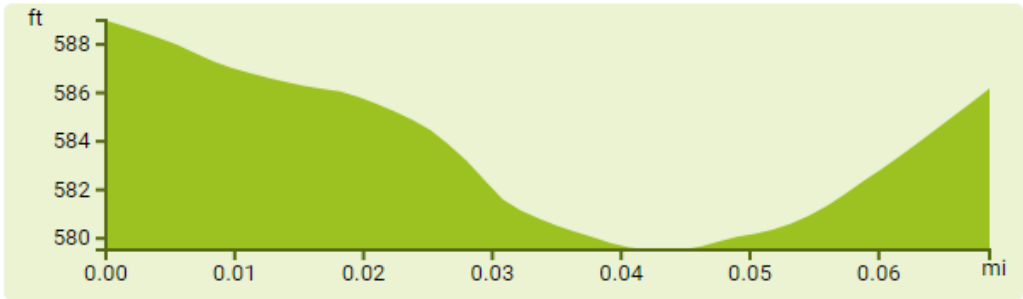
40.88195, -75.13256
2024-04-17 14:29:31 -0400



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.55	square miles



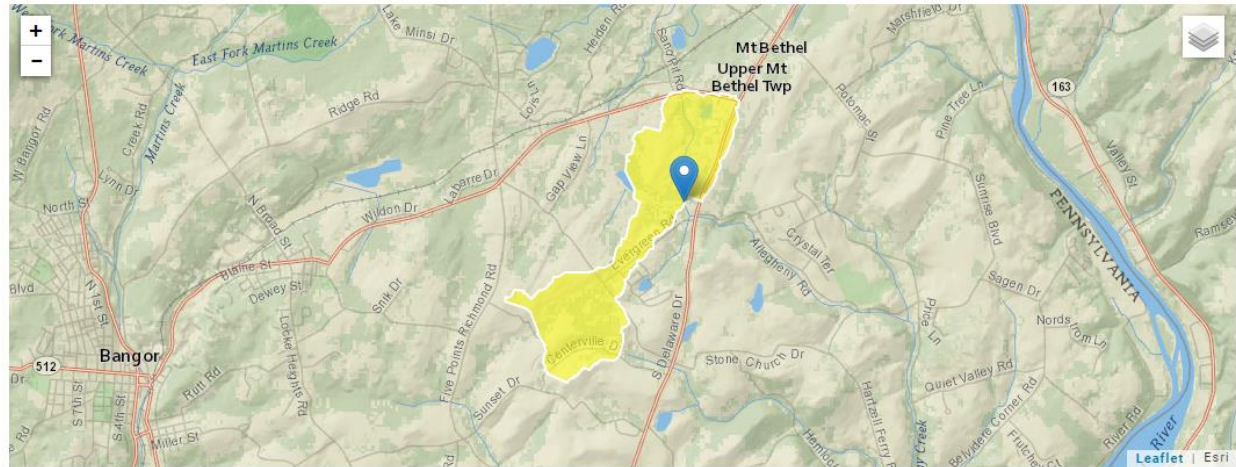
Latitude Longitude Elevation (ft) Distance (mi)

Summary of Review

Pt 2. At conflux with Allegheny Creek
L7.10: .1

Clicked Point (Latitude, Longitude):
Time:

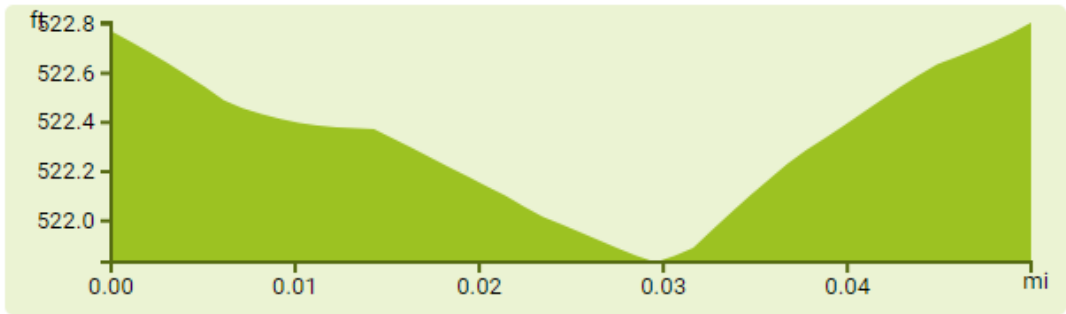
40.88605, -75.12548
2024-04-17 14:39:55 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	1.19	square miles



Summary of Review

Analysis Results WQM 7.0

Hydrodynamics
NH3-N Allocations
D.O. Allocations
D.O. Simulation
Effluent Limitations

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
0.97	UNK TRIB	PA0070092	0.0490

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	3.15	6.3	
Dissolved Oxygen			7

Record: 1 of 1 No Filter Search

Print < Back Next > Archive Cancel

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.1 = Q stream (cfs)</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.049 = Q discharge (MGD)</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">30 = no. samples</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.3 = Chlorine Demand of Stream</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0 = Chlorine Demand of Discharge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.5 = BAT/BPJ Value</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0 = % Factor of Safety (FOS)</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.5 = CV Daily</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">0.5 = CV Hourly</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = AFC_Partial Mix Factor</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = CFC_Partial Mix Factor</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">15 = AFC_Criteria Compliance Time (min)</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">720 = CFC_Criteria Compliance Time (min)</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">= Decay Coefficient (K)</div>
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Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.440	1.3.2.iii	WLA cfc = 0.421
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.164	5.1d	LTA_cfc = 0.245

Source	Reference	Effluent Limit Calculations
PENTOXSD TRG	5.1f	AML MULT = 1.231
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.202 AFC
		INST MAX LIMIT (mg/l) = 0.660

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-

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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.

