

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0061549
 APS ID 561933
 Authorization ID 1094323

Applicant and Facility Information

Applicant Name	<u>Cherry Ridge MHP</u>	Facility Name	<u>Cherry Hill Mobile Home Court</u>
Applicant Address	<u>6 Cherry Hill Road</u> <u>Honesdale, PA 18431</u>	Facility Address	<u>Mangs Road</u> <u>Honesdale, PA 18431</u>
Applicant Contact	<u>Sheila Warring</u> <u>chmhcinc@hotmail.com</u>	Facility Contact	<u>Thomas Markey</u> <u>Tom@markeywaterservices.com</u>
Applicant Phone	<u>570-253-0369</u>	Facility Phone	<u>570-689-5660</u>
Client ID	<u>43957</u>	Site ID	<u>239831</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Cherry Ridge Township</u>
Connection Status		County	<u>Wayne</u>
Date Application Received	<u>November 3, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 20, 2020</u>	If No, Reason	
Purpose of Application	<u>RENEWAL OF EXISTING NPDES PERMIT.</u>		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge treated sewage. The receiving stream, Middle Creek is located in State Water Plan watershed 1-B (Lackawaxen River) and is classified for High Quality- Cold Water Fishes (HQ-CWF), aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies. As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use.

The effluent limits were determined using a discharge rate of 0.015 MGD. The Annual average flow for 2020 was 0.0054 MGD. CBOD5, TSS, Fecal Coliform, and pH limits are BPT-based secondary treatment and remain unchanged. The seasonal NH3-N, DO, and TRC limits are water quality-based.

The WMS Report query "Water Management System Inspections" was run. On 05/04/2020 an Administrative/File Review was done with No Violations noted.

The WMS "Open Violations by Client Report" was run and there are no open violations.

The EPA waiver is in effect.

The NPDES permit expired on April 30, 2021 and the application for renewal was submitted November 3, 2020..

Sludge use and disposal description and location(s): Greater Hazelton Joint Sewer Authority

Approve	Deny	Signatures	Date
X		Bernard Feist (signed) Bernard Feist, P.E. / Environmental Engineer	December 27, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	1-3-22


Summary of Review

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.	<u>001</u>	Design Flow (MGD)	<u>.015</u>
Latitude	<u>41° 30' 33.39"</u>	Longitude	<u>-75° 17' 15.73"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Middle Creek</u>	Stream Code	<u>5846</u>
NHD Com ID	<u>25925986</u>	RMI	<u>8.3</u>
Drainage Area	<u>58.0</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>5.8</u>	Q ₇₋₁₀ Basis	<u>Gage 01431500</u>
Elevation (ft)	<u>1139</u>	Slope (ft/ft)	<u>0.003</u>
Watershed No.	<u>1-B</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____
Background/Ambient Data	_____	Data Source	_____
pH (SU)	_____		_____
Temperature (°F)	_____		_____
Hardness (mg/L)	_____		_____
Other:	_____		_____
Nearest Downstream Public Water Supply Intake	<u>Easton Area Water Supply</u>		
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	<u>> 50 miles</u>

Other Comments:
System consists of comminutor, aeration basin, clarifier, sludge holding and chlorine disinfection.

 **DFLOW Results**

File Edit View Help									
All available data from Apr 1, 1996 through Mar 31, 2021 are included in analysis.									
Climatic year defined as Apr 1 - Mar 31.									
Gage	Period	Days in +	Zero/Mis+	1B3	Percentile	Excur pe+	7Q10	F	
11430000 - Lackawaxen River near Honesdale, PA	1995/04/01 - 2021/04/01	9,497	0/0	15.0	0.32%	0.81	16.7		

STATION.--01430000 LACKAWAXEN RIVER NEAR HONESDALE, PA

LOCATION.--Lat 41° 33' 43", long 75° 14' 54", Wayne County, Hydrologic Unit 02040103, on right bank at Lemnitzer Bridge (Brown Street), on U.S. Highway 6, and 1.2 mi downstream from Dyberry Creek and Honesdale.

DRAINAGE AREA.--164 square miles.

LowFlowYield (cfs/mi²) = 16.7 / 164 = .10

WRDS: Stream 5846

Outfall 001 @ RMI 8.3 Alt. 1139 feet
NAD 1983 Latitude: 41.5092 (41 30 33)
NAD 1983 Longitude: -75.2876 (-75 17 16)
Drainage Area: 58 mi²

Next downstream tributary 05875 @ RMI 7.7 Alt. 1129 feet
NAD 1983 Latitude: 41.5036 (41 30 13)
NAD 1983 Longitude: -75.2804 (-75 16 50)
Drainage Area: 59 mi²

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.015</u>
Latitude <u>41° 30' 33.00"</u>	Longitude <u>-75° 17' 18.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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 ₅	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)

Comments: Monitoring for TN and TP is now required for all Individual Sewage Permits; this monitoring will be added at a frequency of 1/year. Monitoring is also included for TKN and Nitrate-Nitrite as N since they are components of the calculation for TN.

Water Quality-Based Limitations (continued from Last Permit)

D.O.	6.0 mg/l
Ammonia-Nitrogen Nov 1 - Apr 30	10.5 mg/l
Ammonia-Nitrogen May 1 - Oct 31	3.5 mg/l
Total Residual Chlorine*	1.0 mg/l

*Facility-specific regional BAT for facility < 0.1 MGD, no upgrade/expansion, and no documented TRC stream issue

2021 Modelling

The screenshot shows the 'Effluent Limitations' tab in the 'Analysis Results WQM 7.0' software. It displays a table for discharge parameters and a table for effluent limits.

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
8.30	Cherry Hill MHP	PA0062549	0.0150

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	25	50	
Dissolved Oxygen			3

TRC EVALUATION			
Input appropriate values in A3:A9 and D3:D9			
5.8	= Q stream (cfs)	0.5	= CV Daily
0.015	= 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 = 79.752	1.3.2.iii WLA_cfc = 77.744
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 29.717	5.1d LTA_cfc = 45.197
Source	Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ
		INST MAX LIMIT (mg/l) = 1.635	



Cherry Hill
WQM7.pdf



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