pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0034215**
Facility Type	**Non-Municipal**	APS ID	**993449**
Major / Minor	**Minor**	Authorization ID	**1273585**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	Mary Ann Parish	Facility Name	**White Haven Campground**
Applicant Address	4007 Westford Road	Facility Address	4007 Westford Road
	Jamestown, PA 16134-6735		Jamestown, PA 16134-6735
Applicant Contact	Mary Ann Parish	Facility Contact	Michael J. Seman
	owner		Plant operator
Applicant Phone	(724) 927-2411	Facility Phone	
Applicant E-Mail		Facility E-Mail	
Client ID	1931	Site ID	243944
Municipality	South Shenango Township	County	Crawford
Ch 94 Load Status	Not Overloaded	Connection Status	**NA**
SIC Code	7033	SIC Code	4952
SIC Description	**Services - Trailer Parks and Campsites**	SIC Description	Trans. & Utilities - Sewerage Systems
Application Received	April 26, 2019	EPA Waived?	Yes
Application Accepted	May 20, 2019	If No, Reason	

Purpose: NPDES discharge permit renewal.

Summary of Review

Seasonal campground with no current violations listed. Expected operation is from May through October with the facility closed from November through April.

The site name is White Haven Campground and the Dept of State name as of April 23, 2013 is Whitehaven Campground LLC.

EDMR reporting as of June 2012. No discharge is reported. Available pre-EDMR reports do not show any discharge from this facility.

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.

Approve	Deny	Signatures	Date
X		William H. Mentzer William H. Mentzer, P.E. Environmental Engineering Specialist	September 8, 2020
X		Justin C. Dickey Justin C. Dickey, P.E. Environmental Engineer Manager	September 14, 2020

1.29Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.02
Latitude DP	41º 33' 16.42"	Longitude DP	-80º 26' 58.10"
Latitude NHD	41º 32' 57.99"	Longitude NHD	-80º 26' 59.44"
Quad Name	Hartstown	Quad Code	0602
Wastewater:	Treated seasonal campground domestic wastes		

Receiving Waters	Unnamed Tributary to Shenango River	Stream Code	unknown
NHD Com ID	130028845	RMI	0.44
Drainage Area	0.01	Yield (cfs/mi^2)	0
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	0
Elevation (ft)	1237.91	Slope (ft/ft)	0.01457
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use	statewide	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none

Comments: Dry drainage swale discharge to unnamed tributary 36360 and NHD location at NHD node RMI 0.84 (measured 0.85), 1202.65-Feet elevation and 0.53-square mile drainage. Downstream confluence with tributary 36359 at RMI 1.57, 1169.03-feet Elevation and 1.29-square mile drainage. Perennial stream condition at The confluence with the Shenango River 35482 in the Pymatuning Reservoir at RMI 69.07, 1008.00-feet elevation and 147.78-square mile drainage.

Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Downstream Impoundment	**Pymatuning Reservoir**	Distance Downstream (miles)	**1.86**
Surface Area (acres)	**16 000**	Volume (million gallons)	**61300**
Reservoir RMI		Retention (days)	**508**

Background/Ambient Data		Data Source
CBOD5 (mg/L)	2.0	Perennial stream default
Ammonia-nitrogen (mg/L)	0.1	Perennial stream default
pH (SU)	7.0	default
Temperature (°C)	25	WWF default
Hardness (mg/L)	100	default
Other		

Nearest Downstream Public Water Supply Intake	Greenville Borough Water Treatment Plant		
PWS Waters	Shenango River	Flow at Intake (cfs)	1000
PWS RMI	56.96	Distance from Outfall (mi)	13.95

Changes Since Last Permit Issuance: none

Other Comments: Regulated stream at the downstream reservoir dam

Treatment Facility Summary

Treatment Facility Name: Whitehaven Campground

WQM Permit No.	Application Date	Issuance Date	Revision
2072403	3 April 1972	20 October 1972	
2072403	14 and 22 April 1978	12 July 1978	T-1
2072403	22 and 28 April 1986	26 March 1987	T-2
2072403	31 March 2000	15 September 2000	T-3
2072403		11 December 2003	T-4
2090403	23 March 1994	18 May 1994	
2090403	31 March 2000	15 September 2000	T-1
2090403		11 December 2003	T-2

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	tertiary	Activated sludge with open bed sand filtration	chlorine	0.01

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.02	100	Not Overloaded	none	Off-site

Changes Since Last Permit Issuance: none

Other Comments:

The design organic load is 100-PPD and the design hydraulic load is 0.020-MGD. Design is based on 200-sites (800 people). In 1994 the chemical addition permit added a 0.01-MGD mean hydraulic flow. The application stated that on average 65-sites were in use with 115 of 200 planning approval sites available.

WQM 2072403 design is to serve a 200-unit campground (800 people). The hydraulic design is based on 100-gallons/unit. The organic load is 100-PPD (0.5 PPD/unit and 0.13 PCD). Issued with 1972 sewerage conditions 1, 2, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 26, 29, and 30 and requiring tertiary treatment. Transfer T-1 was issued with no requirement changes. Transfer T-2 removed the tertiary requirements used the 1983 Sewerage conditions 1, 8, 9, 10, 11, 12, 13, 14, 15, 18, and 19.

Treatment was a 0.02-M GD package aeration system with a final intermittent open bed sand filter with two 30 by 30-foot filters and a 1 800-square foot total area, a 2 150-gallon dosing tank, and dual 85-gpm centrifugal dosing pumps. Optional sodium aluminate addition for phosphorus control was included.

Disinfection is with hypo-chlorination (sodium hypochlorite solution) with a 6 by 6-foot, 5-foot 7-inch water depth and 1-foot freeboard, 1 300-gallon contact tank providing 15.3-minute detention.

Flow measurement is a chlorine contact tank V-notch. Solids wastes are to be removed by Powell sanitation.

WQM 2090403 was for chemical feed to control phosphorus. Chemical feed to aeration with suspended solids removal in the clarifier and sand filter. The permit was issued with the 1983 Sewerage Conditions 1, 7, 9, 10, 11, 12, 13, 14, 15, 16, 19, 21, and 22; Erosion Control 1991 Conditions: All; and solid waste disposal. Transfer T-1 used 1991 Sewerage conditions: 1, 7, 9, 10, 11, 12, 13, 14, 15, 16, 19, 21 and 22; 1991 Erosion control: all; and solid waste disposal. Chemical Treatment is with a 10-gallon feed tank, mixer in a 55-gallon tank, and a 0.01 to 0.58 gph feed pump. Proposed chemicals are alum, ferric chloride, and sodium aluminate. Design mean alkalinity is 310-mg/l. The chemicals are discharged to one or more aeration tank points.

200-gallons sludge removed by Enterline reported in the renewal application.

Compliance History

No reports available

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .02
Latitude 41º 33' 16.42" **Longitude** -80º 26' 42.00"
Wastewater Description: 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
$CBOD_5$	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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
DO	4.0	Daily minimum		BPJ

Comments: Weekly averages are for POTW.

Water Quality-Based Limitations

A Sewerage program “Reasonable Potential Analysis” review determined the following parameters were candidates for limitations: phosphorus, CBOD5, TSS, and ammonia-nitrogen.

Phosphorus requirements are from a 1989 Trophic Lake Index Study recommending a 1-mg/L phosphorus limit that was implemented in 1992.

The receiving waters are divided into three segments according to stream codes.

Segment	Stream Name	Stream Code	Stream Classification	Stream Flow Condition	Stream Flow cfs	Stream Flow mgd	Discharge RMI	Discharge Elevation feet	Discharge Drainage square miles
1	drainage swale	unknown	WWF	dry	0.0003	0.0002	0.44	1237.91	0.01
2	un-named	36360	WWF	dry	0.0159	0.0103	0.85	1202.65	0.53
4	un-named	36359	WWF	dry	0.0387	0.0250	1.57	1169.03	1.29
5	Shenango River	35482	WWF	perennial	4.4334	2.8654	69.07	1008.00	147.78

The USGS map does not indicate intermittent streams. Previous modelling assumed dry stream conditions prior to the Shenango River/Pymatuning Reservoir. Water Resources Bulletin B-12 does not report any seven-day ten-year low flows for northwestern Pennsylvania streams with a drainage area less than 2.0-square miles. At the Pymatuning Reservoir the total stream to waste flow ratio is 144:1. WQM7.0 modelling recommends a 5.0-mg/L minimum daily dry stream DO with secondary treatment.

Secondary treatment with TRC BAT recommended and 5.0-mg/L dry stream minimum daily effluent DO.

Anti-Backsliding

Not appropriate

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" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	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/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	1.0	XXX	2.0	2/month	Grab

Compliance Sampling Location: Outfall 001 after disinfection