Pennsylvania Department of Environmental Protection

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0232386**
Wastewater Type	**Sewage**	APS ID	**1110608**
Facility Type	**SFTF**	Authorization ID	**1478912**

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Matchplay Management, Inc. – dba Skytop**	Facility Name	**Skytop Mountain Golf Club SFTF**
Applicant Address	PO Box 132	Facility Address	400 Kennel Lane
	State College, PA 16804-0132		Port Matilda, PA 16870
Applicant Contact	John McShea	Facility Contact	John McShea
Applicant Phone	(814) 571-7187	Facility Phone	(814) 571-7187
Client ID	304134	Site ID	772315
SIC Code	4952	Municipality	Huston Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Centre
Date Application Received	April 1, 2024	WQM Required	Issued
Date Application Accepted	April 5, 2024	WQM App. No.	1406403
Project Description	Renewal of an existing NPDES permit for the discharge of treated sewage.		

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		Derek S. Garner / Project Manager	January 9, 2025
X		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 10, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (GPD)	1,480
Latitude	40º 49' 59.82"	Longitude	-78º 0' 14.66"
Quad Name	Port Matilda	Quad Code	40078
Wastewater Description:	Sewage Effluent		

Receiving Waters	Bald Eagle Creek	Stream Code	22412
NHD Com ID	67180078	RMI	43.6
Drainage Area	40.83	Yield (cfs/mi^2)	0.29
Q_{7-10} Flow (cfs)	11.91	Q_{7-10} Basis	Streamgage No. 01558000
Elevation (ft)	911	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	TSF, MF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	n/a	Name	n/a

Nearest Downstream Public Water Supply Intake	PA American Water Company		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	688
PWS RMI	10.6	Distance from Outfall (mi)	132

Facility Summary

The Skytop Mountain Golf Club Small Flow Treatment Facility (SFTF) has not yet been constructed. Construction and operation of the SFTF was approved under WQM Permit No. 1406403, issued July 10, 2006. Sewage is currently being handled using a 2,250-gal holding tank that is pumped as needed.

The approved design consists of one (1) 2,250-gal septic tank, one (1) 500-gal dosing tank, two (2) partially elevated 24’ x 48’ sand filters, one (1) erosion chlorinator, and one (1) 415-gal chlorine contact tank. The annual average design flow is 1,480 GPD and the hydraulic design capacity is 1,600 GPD.

Compliance History

The site was most recently inspected by DEP on August 6, 2024. The inspection verified that the SFTF has not yet been constructed. DMRs are being submitted on time with a “no discharge” indicator.

There are no open violations associated with the permittee.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (GPD)** 1,480
Latitude 40º 49' 50.00" **Longitude** -78º 0' 8.00"
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	Basis
BOD_5	10	Average Monthly	92a.61, DEP SFTF Design Manual
	20	IMAX	92a.61, DEP SFTF Design Manual
Total Suspended Solids	10	Average Monthly	92a.61, DEP SFTF Design Manual
	20	IMAX	92a.61, DEP SFTF Design Manual
pH	6.0 – 9.0 S.U.	IMIN - IMAX	40 CFR 133.102(c), 95.2(1)
Fecal Coliform	200 / 100 ml	Geo Mean	92a.47(a)(4)
TRC	0.5	Avg Monthly	92a.47(a)(8)

Water Quality-Based Limitations

Generally, DEP does not develop water quality-based effluent limitations for SFTFs due to the lack of reasonable potential to exceed in-stream criteria. However, DEP does analyze TRC. The TRC analysis (attached) indicates that the above technology-based effluent limit is protective of Bald Eagle Creek.

Chesapeake Bay Requirements

Facilities with design flows under 2,000 GPD are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, Chesapeake Bay nutrient monitoring requirements are not applicable.

Best Professional Judgment (BPJ) Limitations

No limits are based on BPJ.

Anti-Backsliding

No limits are proposed to be made less stringent than existing requirements.

Existing Effluent Limitations and Monitoring Requirements

The existing effluent limitations and monitoring requirements are as follows:

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001

TRC EVALUATION

Input appropriate values in B4:B8 and E4:E7

11.91	= Q stream (cfs)	0.5	= CV Daily
0.00148	= 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)	0	=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 1659.416	1.3.2.iii	WLA cfc = 1617.793
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 618.338	5.1d	LTA_cfc = 940.509

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	

WLA afc	(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)