

Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0061115

APS ID

892155

Authorization ID

1259447

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

Applicant Name	SC Stream PA LLC	Facility Name	Paradise Stream Resort Wastewater Treatment Plant
Applicant Address	PO Box 99	Facility Address	Paradise Stream Resort
	Mount Pocono, PA 18344-0099		Mount Pocono, PA 18344
Applicant Contact	Patricia Williams	Facility Contact	Donald Kintner
Applicant Phone	(570) 839-5154	Facility Phone	(570) 839-5154
Client ID	326433	Site ID	250962
Ch 94 Load Status	Not Overloaded	Municipality	Paradise Township
Connection Status	-	County	Monroe
Date Application Received	<u>July 3, 2017</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 13, 2017</u>	If No, Reason	-
Purpose of Application	Renewal of NPDES permit for discharge of treated sewage.		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.100 MGD of treated sewage into Paradise Creek, a High Quality, Cold-Water Fishery, Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-E (Brodhead Creek). As per the Department's current existing use list, the receiving stream has an existing use classification that is more protective than its designated use. The existing use classification is Exceptional Value, Migratory Fish (EV, MF). This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH, Total Suspended Solids (TSS) and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Dissolved Oxygen, Ammonia-Nitrogen, and CBOD₅ are water quality-based and carried over from the previous permit. The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends stricter limitations than the previous permit. The permittee will be required to meet the new water quality-based limits for TRC starting three years after the effective date of the permit (see Part C.III.). TRC limitations from the previously issued permit are in effect for the first three years after the permit effective date.

The latest DRBC Docket No. D-2006-020-3 requires the addition of quarterly monitoring and reporting for Nitrate-Nitrite-N and a 1,000 mg/L average quarterly limit for Total Dissolved Solids. DRBC also requires a minimum monthly average of 85% removal for CBOD₅, which is included in this permit cycle at the same monitoring frequency (2/month) as CBOD₅. A twice per month influent CBOD₅ monitoring requirement is added to the permit to determine removal efficiency.

The permit renewal application was originally received on 7/3/2017 with an Annual Average Design Flow and Hydraulic Design Capacity of 0.050 MGD. A file review revealed the previous permit was modeled for a discharge of 0.100 MGD. From its inception, the NPDES permit for this facility has been based upon an effluent discharge rate of 0.100 MGD; however, the constructed treatment facility has a design capacity of only 0.050 MGD. E-mail correspondence with the applicant's

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	January 31, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	January 31, 2019

Summary of Review

consultant confirmed the owner would like to maintain the existing permitted flow of 0.100 MGD. If and when the permittee plans to construct additional treatment units to increase the capacity beyond the current as built capacity of 0.050 MGD, a new Water Quality Management permit will be required.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall. The state-wide default 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.

As per the permittee's Biosolids Production and Disposal supplemental DMR form, sludge is hauled to Hazleton by Koberlein Septic.

The existing permit expired on 12/31/2017 and the application for renewal was received on time. A Water Management System Inspection query was performed and indicated that on 1/10/2018 a Compliance Evaluation was performed with One Violation Noted.

There is currently one open violation for this client that may need to be resolved before issuance of the final permit:

1. 01/10/2018 - Violation ID 806064 – Violation Code 92A.41(A)5 – NPDES-Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance (Program Specific ID: PA0061115).

 Watershed Info - SC Stream.pdf	 WQM - SC Stream PA.pdf	 TRC_CALC -SC Stream.pdf	 DRBC Docket D-2006-020-3.pdf
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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.	001	Design Flow (MGD)	0.100
Latitude	41° 7' 37.98"	Longitude	-75° 18' 27.22"
Quad Name	Buck Hill Falls	Quad Code	0943
Wastewater Description:	Sewage Effluent		
Receiving Waters	Paradise Creek	Stream Code	4933
NHD Com ID	26138120	RMI	7.97
Drainage Area	3.22 mi ²	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	0.322	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	1,092	Slope (ft/ft)	0.0163
Watershed No.	1-E	Chapter 93 Class.	HQ-CWF, MF
Existing Use	EV, MF	Existing Use Qualifier	RBP Survey - Antidegradation
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	Name -		
Nearest Downstream Public Water Supply Intake		Brodhead Creek Regional Water Authority	
PWS Waters	Brodhead Creek	Flow at Intake (cfs)	13
PWS RMI	7.31	Distance from Outfall (mi)	12.4

Treatment Facility Summary

Treatment Facility Name: Paradise Stream Resort

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Chlorine	0.0227
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Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.10	83.4	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 7' 40.00"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.100
Longitude -75° 18' 31.00"

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
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.31	Average Monthly	TRC Calculation Spreadsheet
	1.0	IMAX	
CBOD5 Minimum Percent Removal (%)	85	Minimum Monthly Average	DRBC Docket No. D-2006-020-3
		Average Monthly	
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	Average Monthly	DRBC Docket No. D-2006-020-3
Nitrate-Nitrite as N	Report	Average Quarterly	
Total Dissolved Solids	1,000	Average Quarterly	Previous WQM Modeling
Total Phosphorous	1.0	Average Monthly	
	2.0	IMAX	
CBOD ₅	20.0	Average Monthly	Previous WQM Modeling
	40.0	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	3.0	Average Monthly	Previous WQM Modeling
	6.0	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	9.0	Average Monthly	Previous WQM Modeling
	18.0	IMAX	
Dissolved Oxygen	6.0	Minimum	

Anti-Backsliding

No limitations were made less stringent.