

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0025551
 APS ID 1016753
 Authorization ID 1314987

Applicant and Facility Information

Applicant Name	<u>USDA Forest Service</u>	Facility Name	<u>Dew Drop Campground STP</u>
Applicant Address	<u>4 Farm Colony Drive</u> <u>Warren, PA 16365-5206</u>	Facility Address	<u>Forrest Road 262</u> <u>Warren, PA 16365</u>
Applicant Contact	<u>Jamie Davidson</u>	Facility Contact	<u>Edward Prince</u>
Applicant Phone	<u>-</u>	Facility Phone	<u>(814) 362-2171</u>
Client ID	<u>134954</u>	Site ID	<u>727358</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Mead Township</u>
Connection Status		County	<u>Warren</u>
Date Application Received	<u>April 3, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 2, 2020</u>	If No, Reason	<u>-</u>

Purpose of Application Renewal of an NPDES permit for an existing discharge of treated sewage.

Summary of Review

Act 14 – Proof of Notification was submitted and received.

Dew Drop Campground is currently registered to use the Departments eDMR system for reporting

There are currently 10 open violations for subject client no. 134954 as of 8/26/2021.

- Two NWRO Safe Drinking Water violations at Hearts Content Recreation Area for not providing 20 minutes of contact time. Engineers have shown they have underground piping to supply the needed contact time.
- Eight NWRO Safe Drinking Water violations split between Buckaloons System #1 and Buckaloons System #2, which each have similar issues to Hearts Content Recreation Area. The Department has sent a Technical Deficiency Letter and is awaiting a response.

Sludge use and disposal description and location(s): Septage must be pumped and hauled off-site by a septage hauler for land application under a general permit authorized by DEP or disposal at an STP.

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		Jon F. Bucha Jonathan F. Bucha / Civil Engineer General	August 26, 2021
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	September 23, 2021

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.002</u>
Latitude	<u>41° 49' 48.55"</u>	Longitude	<u>-78° 57' 31.26"</u>
Quad Name	<u>Cornplanter Bridge</u>	Quad Code	<u>0414</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Kinzua Bay Branch of the Allegheny Reservoir (Kinzua Creek)</u>	Stream Code	<u>56522</u>
NHD Com ID	<u>112374085</u>	RMI	<u>3.32</u>
Drainage Area	<u>-</u>	Yield (cfs/mi ²)	<u>-</u>
Q ₇₋₁₀ Flow (cfs)	<u>414</u>	Q ₇₋₁₀ Basis	<u>USGS# 03012550 (1967-1991)</u>
Elevation (ft)	<u>1330</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>16-B</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>--</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>-</u>		<u>-</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Aqua Pennsylvania, Inc. – Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1376</u>
PWS RMI	<u>90</u>	Distance from Outfall (mi)	<u>105</u>

Changes Since Last Permit Issuance: E. Coli monitoring was added to this permit renewal per the SOP for Establishing Effluent Limitations for Individual Sewage Permits (SOP No. BPNPSM-PMT-033)

Other Comments: N/A

Treatment Facility Summary				
Treatment Facility Name: Dewdrop Campground STP				
WQM Permit No.		Issuance Date		
6294404		May 17, 1995		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration	Chlorine	0.01
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.01	20.85	Not Overloaded	None	Other WWTP

Changes Since Last Permit Issuance: N/A

Other Comments: Treatment consists of an Extended aeration package plant with sand filter polishing units, including an equalization tank, aeration tank, sludge holding tank, clarifier, dosing tank, and sludge holding tank.

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
Flow (MGD) Average Monthly	0.00045 5	0.00034 9								0.00037 8	0.00108 6	0.00072
Flow (MGD) Daily Maximum	0.00243 2	0.00069 3								0.00277 7	0.00939	0.00421 7
pH (S.U.) Minimum	6.46	7.04								6.73	6.33	6.03
pH (S.U.) Maximum	7.14	7.2								7.62	7.28	7.47
DO (mg/L) Minimum	6.61	7.98								7.29	5.83	6.02
TRC (mg/L) Average Monthly	0.2	0.17								0.15	0.2	0.2
TRC (mg/L) Instantaneous Maximum	0.48	0.17								0.26	0.62	0.47
CBOD5 (mg/L) Average Monthly	7	5								2.17	2.7	4
TSS (mg/L) Average Monthly	4	12								3	5	3
Fecal Coliform (CFU/100 ml) Geometric Mean	4	1								167	1	36.4
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	17	1								194	2	2420
Total Nitrogen (mg/L) Annual Average							16.58					
Ammonia (mg/L) Average Monthly	3.991	0.906								0.1	0.1	0.320
Total Phosphorus (mg/L) Annual Average							3.10					

Compliance History

Effluent Violations for Outfall 001, from: August 1, 2020 To: June 30, 2021

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TSS	05/31/21	Avg Mo	12	mg/L	10	mg/L
TSS	July 2021	Avg Mo	13	mg/L	10	mg/L
CBOD ₅	July 2021	Avg Mo	14	mg/L	10	mg/L

Summary of Inspections: An inspection occurred on 6/24/2020 where no violations were noted. All equipment was a permitted and operational except for a non-operational flow chart recorder.

Summary of DMRs: Reviewing the past 3 years of eDMR data, this facility has 3 minor exceedances listed above and appears to be operating in good condition.

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.002</u>
Latitude <u>41° 49' 48.55"</u>	Longitude <u>-78° 57' 31.26"</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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: Seasonal winter-time limits are not being applied since this facility does not operate through the winter.

Total Residual Chlorine IMAX is being updated from 1.2 mg/L on the previous renewal to 1.6 mg/L per the SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Water Quality-Based Limitations

Comments: No water quality modeling was conducted since the discharge is to a large reservoir with significant dilution available. The Allegheny Reservoir is not currently nutrient impaired.

Best Professional Judgment (BPJ) Limitations

Comments: CBOD₅ and TSS limits of 10/20 mg/L as average monthly/IMAX are being continued as tertiary treatment requirements in order to protect the waters uses.

A D.O. limit of a minimum of 4 mg/l and monitoring for ammonia nitrogen, total nitrogen, total phosphorus, and E. Coli is being placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

eDMR data has demonstrated that 1/month monitoring for ammonia nitrogen is sufficient for this treatment facility.

Anti-Backsliding

Anti-Backsliding considerations do not apply since the effluent limitations are all remaining the same as in the previous permit renewal.

Additional Information

Monitoring frequencies for DO, pH, and TRC are being increased from 4 day/week to 1/day, as the previous permit renewal was a phase in period for these required monitoring frequencies.

Grab samples will continue to be used in place of 8-hour composite sampling for this treatment facilities discharge scenario with low intermittent flows.

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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	2/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	2/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001 after disinfection.