

Application Type Renewal
Facility Type Sewage
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. PA0035815
APS ID 1078613
Authorization ID 1422776

Applicant and Facility Information

Applicant Name	<u>Saulsburg & Dillon</u>	Facility Name	<u>Bellefonte KOA Campground</u>
Applicant Address	<u>2481 Jacksonville Road</u> <u>Bellefonte, PA 16823-9316</u>	Facility Address	<u>2481 Jacksonville Road</u> <u>Bellefonte, PA 16823-9316</u>
Applicant Contact	<u>Casey Dillon</u>	Facility Contact	<u>John Dillon</u>
Applicant Phone	<u>(814) 355-7912</u>	Facility Phone	<u></u>
Client ID	<u>44793</u>	Site ID	<u>443211</u>
SIC Code	<u>7033</u>	Municipality	<u>Marion Township</u>
SIC Description	<u>Services - Trailer Parks And Campsites</u>	County	<u>Centre</u>
Date Application Received	<u>January 6, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 19, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of existing NPDES permit</u>		

Summary of Review

The above applicant has submitted an NPDES renewal application for an existing discharge from the Bellefonte KOA Campground located in Marion Township, Centre County. The facility receives sanitary wastewater from motorhomes and dechlorinated pool backwash water. The facility consists of a bar screen, a comminutor, flow equalization, an aeration tank, a clarifier, a dosing tank, an intermittent sand filter, a sludge holding tank, an erosional chlorinator, and the outfall. Water Quality Management Permit No. 1471402 is associated with the treatment facility.

Unless otherwise noted, all applicable Department Standard Operating Procedures (SOPs) were followed during the review of this application.

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		<i>Chad A. Fabian</i> Chad A. Fabian / Project Manager	March 28, 2025
X		<i>Nicholas W. Hartranft, P.E.</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	March 31, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.009</u>
Latitude	<u>40° 57' 35.91"</u>	Longitude	<u>-77 41' 16.66"</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Nittany Creek (HQ-CWF)</u>	Stream Code	<u>22932</u>
NHD Com ID	<u>67178568</u>	RMI	<u>2.2 @ Nittany Creek</u>
Drainage Area	<u>Intermittent stream at discharge 13.4 sq mil @ Nittany Creek</u>	Yield (cfs/mi ²)	<u>0.2</u>
Q ₇₋₁₀ Flow (cfs)	<u>2.81 cfs</u>	Q ₇₋₁₀ Basis	<u>Previous model</u>
Elevation (ft)	<u>840</u>	Slope (ft/ft)	<u>0.011</u>
Watershed No.	<u>9-C</u>	Chapter 93 Class.	<u>HQ-CWF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>N/A</u>
Assessment Status	<u>Attaining Use(s)</u>		
Nearest Downstream Public Water Supply Intake	87 miles downstream on W. Br. Susquehanna River near Milton, PA.		

Changes Since Last Permit Issuance: None

Other Comments: This is a dry streams discharge to an UNT to Nittany Creek; Nittany Creek ultimately drains to Bald Eagle Creek near Curtin Village, upstream of Bald Eagle/Foster Joseph Sayers Lake. Nittany Creek is used as the point of first surface water use.

Compliance History	
Summary of DMRs:	A summary of the eDMRs shows one effluent violation has occurred in the past 12 months. The effluent violation was an exceedance of the fecal coliform limitations for July of 24. See below table for details on the exceedance.
Summary of Inspections:	The most recent inspection uploaded into WMS was from 5/9/2023. There were no violations found during the inspection.

Other Comments: There are no open violations according to a WMS query.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly			0.00285 8	0.00380 6	0.0042	0.00612 9	0.00561 2	0.0042	0.00306 6	0.00486 9		
Flow (MGD) Daily Maximum			0.006	0.008	0.008	0.014	0.008	0.008	0.008	0.01		
pH (S.U.) Instantaneous Minimum			7.4	7.1	6.7	7.4	7.05	7.24	7.4	7.2		
pH (S.U.) Instantaneous Maximum			7.8	8.4	8.3	7.9	7.93	7.85	8.3	8.51		
DO (mg/L) Daily Minimum			6.7	7.87	6.25	2.7	7.48	7.16	8.11	8.14		
TRC (mg/L) Instantaneous Maximum			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
CBOD5 (mg/L) Average Monthly			< 3	< 3	< 3.19	< 3	< 3	< 3	< 3	< 3		
CBOD5 (mg/L) Instantaneous Maximum			< 3	< 3	3.38	< 3	< 3	< 3	< 3	< 3		
TSS (mg/L) Average Monthly			3	6.8	6.4	6.4	6.4	< 3.4	< 2.4	< 2.8		
TSS (mg/L) Instantaneous Maximum			4.4	7.6	7.6	6.4	6.8	5.2	3.2	4		
Fecal Coliform (No./100 ml) Geometric Mean			< 1	2	< 2.7	< 2.7	49.1	< 1	< 1	< 1		
Fecal Coliform (No./100 ml) Instantaneous Maximum			< 1	4.1	7.3	7.3	2419.6	< 1	< 1	< 1		
Total Nitrogen (lbs/day) Annual Average		< 0.17										
Total Nitrogen (lbs/day) Total Annual		40.29										

**NPDES Permit Fact Sheet
Bellefonte Koa Campground**

NPDES Permit No. PA0035815

Total Nitrogen (mg/L) Annual Average		< 0.5										
Ammonia (mg/L) Average Monthly			< 0.39	1.45	< 0.1157	< 0.1	< 0.1	< 0.1	< 0.1651	< 0.1		
Ammonia (mg/L) Instantaneous Maximum			0.6942	1.496	0.1315	< 0.1	< 0.1	< 0.1	0.2303	< 0.1		
Total Phosphorus (lbs/day) Annual Average		0.811										
Total Phosphorus (lbs/day) Total Annual		19.2										
Total Phosphorus (mg/L) Annual Average		2.29										

Compliance History

Effluent Violations for Outfall 001, from: March 1, 2024 To: January 31, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	07/31/24	IMAX	2419.6	No./100 ml	1000	No./100 ml

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.009</u>
Latitude <u>40° 57' 37.00"</u>	Longitude <u>-77° 41' 17.00"</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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments:

The facility began receiving pool backwash water starting May 2012 but the treated water is dechlorinated prior to discharge to the treatment plant. WQM #1471402-T1 letter amendment permit issued on September 6, 2011 requires the permittee to sample and monitor TRC prior to discharge and prohibits the permittee to discharge backwash water to the treatment plant if the TRC level is detectable. Approximately 400 gallons of backwash water a week will be discharged to the treatment plant. The intermittent stream from the discharge point runs approximately 2.2 miles before discharging to Nittany Creek. Because the discharge flow is most likely infiltrated, especially during summer periods, into the ground before discharging to Nittany Creek, Nittany Creek is not expected to be impacted by the discharge flow. The facility was built in 1971 and there is no change in watershed since the last permit review.

The discharge of flow to HQ-CWF waters will require TRC to be non-detect.

Water Quality-Based Limitations

WQM 7.0 for Windows is a DEP computer model used to determine waste load allocations and effluent limitations for CBOD₅, NH₃-N and DO for single and multiple point source discharge scenarios. This model simulates two basic processes. The NH₃-N module simulates the mixing and degradation of NH₃-N in the stream and compares calculated instream NH₃-N concentrations to the water quality criteria. The DO module simulates the mixing and consumption of DO in the stream due to degradation of CBOD₅ and NH₃-N and compares the calculated instream DO concentrations to the water quality criteria. The model then determines the highest pollutant loading the stream can assimilate and still meet water quality under design conditions.

WQM 7.0 Model was utilized during the previous renewal and the results show that WQBELs for CBOD₅ and ammonia-N are protective of water quality. Consistent with the Department's SOP for reissuance of NPDES permits for sewage discharges, modeling was not performed since no changes to the watershed or discharge characteristics have occurred since the last model run.

Chesapeake Bay TMDL

The design of this facility is less than 0.2 MGD, the Department considers this an existing Phase 5 sewage facility for the purposes of implementing the Chesapeake Bay TMDL. This system has a design flow of 0.009 MGD. Per the Department's Wastewater Supplement to Phase III WIP, Phase 5 facilities are required to monitor and report for total

nitrogen (TN) and total phosphorus (TP) for one permit term. The most recent sampling results show TN and TP values of < 5 mg/l and 2.29 mg/l, respectively. Monitoring and reporting of TN and TP will be removed from the proposed draft permit since the facility has met the requirements of the Phase III Whip by sampling for TN and TP throughout the existing 5 year permit term.

Additional Comments:

Monitoring Requirements for all existing parameters are in accordance with the permit manual policy (Table 6-3 of *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (Chapter 6, pg.10. 362-0400-001).

CBOD5 and TSS and Ammonia-N limits are in accordance with the Dry Stream Policy (391-2000-014, v1997). Application of the most recent version (v2008) is not applicable as this is neither a new nor expanding facility.

Best Professional Judgment (BPJ) Limitations

Daily dissolved oxygen monitoring shall be applied consistent with DEP policy.

The Part C condition requiring pool backwash to be dechlorinated shall remain.

Anti-Backsliding

No backsliding is proposed.

Hauled-in Wastes

Hauled in wastes are neither proposed nor permitted at this facility. A recharacterization of proposed effluent is warranted prior to accepting any hauled-in wastes.

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" (386-0400-001), 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	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	XXX	XXX	0.02	1/day	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	2/month	Grab
TSS	XXX	XXX	XXX	10	XXX	20	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
Ammonia Nov 1 - May 31	XXX	XXX	XXX	9.0	XXX	18	2/month	Grab
Ammonia Jun 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6.0	2/month	Grab

Compliance Sampling Location: 001

Other Comments: TN and TP have been removed as described above.

It is recommended the permit be drafted as described herein.