

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0113883
 APS ID 1012700
 Authorization ID 1307785

Applicant and Facility Information

Applicant Name	<u>Keystone Apt LLC</u>	Facility Name	<u>Keystone MHP (formerly Bittner MHP)</u>
Applicant Address	<u>35 Calais Road</u> <u>Randolph, NJ 07869</u>	Facility Address	<u>Bittner Park Road</u> <u>Trout Run, PA 17771</u>
Applicant Contact	<u>Vamshi Sagi</u>	Facility Contact	<u></u>
Applicant Phone	<u>(586) 871-9237</u>	Facility Phone	<u></u>
Client ID	<u>355241</u>	Site ID	<u>237586</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lewis Township</u>
Connection Status	<u>n/a</u>	County	<u>Lycoming</u>
Date Application Received	<u>March 2, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 3, 2020</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal and Transfer of existing NPDES permit</u>		

Summary of Review

The above applicant submitted a transfer of ownership application for the respective NPDES permit and Water Quality Management (WQM) permit (4188411). The prior permittee was Bittner Mobile Home Park, which had previously submitted an NPDES renewal application for the above facility. Following the NPDES draft permit process, this action will serve to both transfer the permits and renew the NPDES permit.

Unless otherwise noted, all of the 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	May 15, 2020
X		<i>Nicholas W. Hartranft, P.E.</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	May 18, 2020

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.01925</u>
Latitude	<u>41° 22' 42.50"</u>	Longitude	<u>77° 3' 37.80"</u>
Quad Name	<u>Trout Run</u>	Quad Code	<u>0729</u>
Wastewater Description: _____			
Receiving Waters	<u>Lycoming Creek</u>	Stream Code	<u>27488</u>
NHD Com ID	<u>66911697</u>	RMI	<u>14.5</u>
Drainage Area	<u>196 mi^2</u>	Yield (cfs/mi ²)	<u>0.03</u>
Q ₇₋₁₀ Flow (cfs)	<u>7.27</u>	Q ₇₋₁₀ Basis	<u>USGS Streamstats</u>
Elevation (ft)	<u>652</u>	Slope (ft/ft)	<u>n/a</u>
Watershed No.	<u>10-A</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>EV</u>	Existing Use Qualifier	<u>RBP - Antidegradation</u>
Exceptions to Use	<u>none</u>	Exceptions to Criteria	<u>none</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>None</u>		
Source(s) of Impairment	<u>None</u>		
TMDL Status	<u>Final</u>	Name	<u>Lycoming Creek</u>
Nearest Downstream Public Water Supply Intake	<u>Approximately 50 miles downstream on W. Br. Susquehanna River</u>		

Changes Since Last Permit Issuance: None

Other Comments: None

DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the Pennsylvania Bulletin, DEP will accept written comments during the public comment period regarding DEP's tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

Treatment Facility Summary				
Treatment Facility Name: Keystone Apt LLC				
WQM Permit No.		Issuance Date		
4188411		10/25/1988		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Chlorine	0.0195
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0195	n/a	Not Overloaded	No	Disposal

Changes Since Last Permit Issuance: None

Other Comments: As previously noted, the above WQM permit will be transferred simultaneously when the final issuance of the NPDES permit is completed.

Compliance History	
Summary of DMRs:	
Summary of Inspections:	

Other Comments:

Compliance History

DMR Data for Outfall 001 (from April 1, 2019 to March 31, 2020)

Parameter	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19
Flow (MGD) Average Monthly	0.005	0.006	0.0065	0.0064	0.0064	0.0055	0.0060	0.0062	0.0056	0.0056	0.0055	0.0055
Flow (MGD) Daily Maximum	0.006	0.008	0.0103	0.0093	0.0091	0.0077	0.0083	0.0096	0.0114	0.0072	0.0092	0.0098
pH (S.U.) Minimum	6.5	6.9	7.2	7.3	7.2	7.1	7.1	7.0	7.0	7.1	7.0	7.1
pH (S.U.) Maximum	9.5	7.5	7.8	7.5	7.3	7.4	7.4	7.2	7.4	7.6	7.5	7.5
DO (mg/L) Minimum	3.3	4.8	6.2	6.2	6.3	6.2	6.3	7.0	7.0	8.1	7.5	6.3
TRC (mg/L) Average Monthly	< 0.5	< 0.9	1.0	0.6	0.66	0.64	0.6	0.7	0.8	0.78	0.7	0.72
TRC (mg/L) Instantaneous Maximum	2.2	4.3	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0
CBOD5 (mg/L) Average Monthly	< 3	< 4	< 2.0	< 2.2	2.0	< 2.2	2.0	< 4.0	< 2.0	2.2	< 2.2	2.0
CBOD5 (mg/L) Instantaneous Maximum	< 3	5	< 2.0	< 2.2	< 4.0	< 2.2	2.7	< 4.0	< 2.0	2.4	4.2	2.8
TSS (mg/L) Average Monthly	< 6	4	< 4.0	6.0	4.0	4	4.0	< 2.0	< 4.0	4.0	7.5	< 4.0
TSS (mg/L) Instantaneous Maximum	10	5	5.0	8.0	6.0	4	4.0	< 2.0	4.0	4.0	8.0	< 4.0
Fecal Coliform (No./100 ml) Geometric Mean	1	< 2	< 1.0	2419	621.6	2419	2419	49.18	2419	386.01	719.82	170.3
Fecal Coliform (No./100 ml) Instantaneous Maximum	2	4	< 1.0	2419	2419.6	2419	2419	> 2419	> 2419	2419	2419	2419
Total Nitrogen (mg/L) Annual Average				13.5								
Total Phosphorus (mg/L) Annual Average				6.2								

Compliance History

Effluent Violations for Outfall 001, from: May 1, 2019 To: March 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	03/31/20	Max	9.5	S.U.	9.0	S.U.
DO	02/29/20	Min	4.8	mg/L	6.0	mg/L
DO	03/31/20	Min	3.3	mg/L	6.0	mg/L
TRC	02/29/20	IMAX	4.3	mg/L	2.3	mg/L
Fecal Coliform	12/31/19	Geo Mean	2419	No./100 ml	2000	No./100 ml
Fecal Coliform	09/30/19	Geo Mean	2419	No./100 ml	200	No./100 ml
Fecal Coliform	10/31/19	Geo Mean	2419	No./100 ml	2000	No./100 ml
Fecal Coliform	07/31/19	Geo Mean	2419	No./100 ml	200	No./100 ml
Fecal Coliform	05/31/19	Geo Mean	719.82	No./100 ml	200	No./100 ml
Fecal Coliform	06/30/19	Geo Mean	386.01	No./100 ml	200	No./100 ml
Fecal Coliform	08/31/19	IMAX	> 2419	No./100 ml	1000	No./100 ml
Fecal Coliform	05/31/19	IMAX	2419	No./100 ml	1000	No./100 ml
Fecal Coliform	06/30/19	IMAX	2419	No./100 ml	1000	No./100 ml
Fecal Coliform	09/30/19	IMAX	2419	No./100 ml	1000	No./100 ml
Fecal Coliform	07/31/19	IMAX	> 2419	No./100 ml	1000	No./100 ml

Summary of Inspections:

Other Comments:

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .01925
Latitude 41° 22' 42.50" **Longitude** -77° 3' 37.80"
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)

Comments:

Water Quality-Based Limitations

A “Reasonable Potential Analysis” (Attachment) determined the following parameters were candidates for limitations:

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
			

Comments:

Best Professional Judgment (BPJ) Limitations

Comments:

Anti-Backsliding

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					
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX
TRC	XXX	XXX	XXX	1.0	XXX	2.3
CBOD5	XXX	XXX	XXX	25	XXX	50
TSS	XXX	XXX	XXX	30	XXX	60
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000

Compliance Sampling Location:

Other Comments: