

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0025534  
APS ID 1018893  
Authorization ID 1318920

**Applicant and Facility Information**

|                           |   |                  |  |
|---------------------------|---|------------------|--|
| Applicant Name            | <u>USDA Forest Service</u>  | Facility Name    | <u>Kiasutha Recreation Area STP</u>                      |
| Applicant Address         | <u>4 Farm Colony Drive</u><br><u>Warren, PA 16365-5206</u>                          | Facility Address | <u>Forest Roads 667 and 122</u><br><u>Kane, PA 16735</u> |
| Applicant Contact         | <u>Jerry Dixon / <a href="mailto:jerry.dixon@usda.gov">jerry.dixon@usda.gov</a></u> | Facility Contact | <u>Edward Prince (Operator)</u>                          |
| Applicant Phone           | <u>(814) 363-6045</u>   | Facility Phone   | <u>(814) 362-2279</u>                                    |
| Client ID                 | <u>134954</u>   | Site ID          | <u>810689</u>  |
| Ch 94 Load Status         | <u>Not Overloaded</u>   | Municipality     | <u>Hamilton Township</u>                                 |
| Connection Status         | <u>No Limitations</u>   | County           | <u>McKean</u>  |
| Date Application Received | <u>June 5, 2020</u>   | EPA Waived?      | <u>Yes</u>   |
| Date Application Accepted | <u>July 15, 2020</u>  | If No, Reason    | <u></u>  |
| Purpose of Application    | <u>Renewal of a NPDES Permit for an existing discharge of treated sewage.</u>       |                  |  |

**Summary of Review**

This facility receives treated domestic sewage from a seasonal recreational / campground area.

There are no known impacts to Federal or State threatened and endangered mussels in the vicinity of this discharge.

There are currently 29 open violations listed in EFACTS for this permittee (5/10/2023). These are all Safe Drinking Water violations at the Bradford Ranger Station, Kiasutha Campground #1, Kiasutha #2, and Tracy Ridge Loops A, B, and E. *A note will be added to the transmittal letter notifying the applicant of the open violations and that the Department may not be able to issue a final permit until violations are resolved. CWY*

Sludge use and disposal description and location(s): Sludge is sent to North Central Lagoon, USFS Plant for disposal.

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       |      | Adam J. Pesek<br>Adam J. Pesek, E.I.T. / Project Manager                | May 10, 2023 |
| X       |      | Chad W. Yurisc<br>Chad W. Yurisc, P.E. / Environmental Engineer Manager | 5/17/2023    |

| Discharge, Receiving Waters and Water Supply Information |   |                              |                       |
|--|---|------------------------------|-----------------------|
| Outfall No.  | <u>001</u>                                | Design Flow (MGD)            | <u>0.011</u>          |
| Latitude   | <u>41° 47' 2"</u>                         | Longitude                    | <u>-78° 53' 50"</u>   |
| Quad Name  | <u>Cornplanter Bridge</u>                 | Quad Code                    | <u>0414</u>           |
| Wastewater Description: <u>Domestic sewage</u>           |   |                              |                       |
| Receiving Waters   | <u>Kinzua Creek</u>                       | Stream Code                  | <u>56552</u>          |
| NHD Com ID   | <u>112383507</u>                          | RMI                          | <u>7.8</u>            |
| Drainage Area  | <u></u>                                   | Yield (cfs/mi <sup>2</sup> ) | <u></u>               |
| Q <sub>7-10</sub> Flow (cfs)                             | <u>413</u>                                | Q <sub>7-10</sub> Basis      | <u>USGS #03012550</u> |
| Elevation (ft)   | <u>1363</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>7.0</u>                                | Default                      | <u></u>               |
| Temperature (°C)   | <u>20</u>                                 | Default (CWF)                | <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>1450</u>           |
| PWS RMI  | <u>90.0</u>                               | Distance from Outfall (mi)   | <u>105</u>            |

Changes Since Last Permit Issuance:

Other Comments:

| Treatment Facility Summary                                   |                            |                                      |                     |                        |
|--|----------------------------|--------------------------------------|---------------------|------------------------|
| <b>Treatment Facility Name:</b> Kiasutha Recreation Area STP |                            |                                      |                     |                        |
| <b>WQM Permit No.</b>  |                            | <b>Issuance Date</b>                 |                     |                        |
| 4294403  |                            | 5/17/1995                            |                     |                        |
|  |                            |                                      |                     |                        |
| Waste Type   | Degree of Treatment        | Process Type                         | Disinfection        | Avg Annual Flow (MGD)  |
| Sewage   | Tertiary                   | Activated Sludge with Solids Removal | Hypochlorite        | 0.011                  |
|  |                            |                                      |                     |                        |
| Hydraulic Capacity (MGD)                                     | Organic Capacity (lbs/day) | Load Status                          | Biosolids Treatment | Biosolids Use/Disposal |
| 0.011  | 23                         | Not Overloaded                       | Aerobic Digestion   | Offsite lagoon         |

Changes Since Last Permit Issuance:

Other Comments:

| <b>Compliance History</b>      |   |
|--------------------------------|---|
| <b>Summary of DMRs:</b>        | Numerous violations due to late submission of eDMR reports. Ten effluent violations reported since 2018, mostly for exceeding fecal coliform IMAx, three for CBOD5, and one TSS violation.  |
| <b>Summary of Inspections:</b> | Last inspection was conducted on 7/17/2020. The inspection report listed several areas of noncompliance regarding monitoring and reporting requirements, not having an operatable grinder pump, and not properly documenting monitoring activities and results. |

Other Comments:

Compliance History

DMR Data for Outfall 001 (from February 1, 2022 to January 31, 2023)

| Parameter  | JAN-23 | DEC-22 | NOV-22 | OCT-22 | SEP-22       | AUG-22       | JUL-22       | JUN-22       | MAY-22       | APR-22 | MAR-22 | FEB-22 |
|--|--------|--------|--------|--------|--------------|--------------|--------------|--------------|--------------|--------|--------|--------|
| Flow (MGD)<br>Average Monthly                              |        |        |        |        | 0.00086<br>4 | 0.00068<br>7 | 0.00091<br>1 | 0.00077<br>6 | 0.00243<br>9 |        |        |        |
| Flow (MGD)<br>Daily Maximum                                |        |        |        |        | 0.00307<br>8 | 0.00166<br>5 | 0.00218<br>6 | 0.00263<br>6 | 0.00790<br>9 |        |        |        |
| pH (S.U.)<br>Minimum                                       |        |        |        |        | 6.71         | 6.5          | 6.18         | 6.3          | 6.48         |        |        |        |
| pH (S.U.)<br>Maximum                                       |        |        |        |        | 7.2          | 7.34         | 7.43         | 8.58         | 8.93         |        |        |        |
| DO (mg/L)<br>Minimum                                       |        |        |        |        | 5.62         | 5.63         | 5.79         | 5.58         | 8.76         |        |        |        |
| TRC (mg/L)<br>Average Monthly                              |        |        |        |        | 0.26         | 0.37         | 0.23         | 0.4          | 0.25         |        |        |        |
| TRC (mg/L)<br>Instantaneous<br>Maximum                     |        |        |        |        | 0.77         | 1.2          | 1.09         | 0.99         | 0.68         |        |        |        |
| CBOD5 (mg/L)<br>Average Monthly                            |        |        |        |        | 4            | 2.0          | < 3          | 2            | 2            |        |        |        |
| TSS (mg/L)<br>Average Monthly                              |        |        |        |        | 3            | 12.0         | < 3          | 3            | 3            |        |        |        |
| Fecal Coliform<br>(CFU/100 ml)<br>Geometric Mean           |        |        |        |        | 1            | 1.0          | < 1          | 49           | 1.0          |        |        |        |
| Fecal Coliform<br>(CFU/100 ml)<br>Instantaneous<br>Maximum |        |        |        |        | 1            | 1.0          | < 1          | 2420         | 1.0          |        |        |        |
| Total Nitrogen (mg/L)<br>Annual Average                    |        | 12.78  |        |        |              |              |              |              |              |        |        |        |
| Ammonia (mg/L)<br>Average Monthly                          |        |        |        |        | 1.721        | 3.5          | < 0.80       | 0.10         | 1.86         |        |        |        |
| Total Phosphorus<br>(mg/L)<br>Annual Average               |        | 8.65   |        |        |              |              |              |              |              |        |        |        |

**Development of Effluent Limitations**

|  |                                  |
|--|----------------------------------|
| Outfall No. <u>001</u>                         | Design Flow (MGD) <u>0.011</u>   |
| Latitude <u>41° 47' 2.00"</u>                  | Longitude <u>-78° 53' 50.00"</u> |
| Wastewater Description: <u>Domestic Sewage</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 <sub>5</sub>            | 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)     |
| E. Coli                      | Report (No./100 ml) | IMAX            | -                  | 92a.61           |

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department’s SOP entitled “Establishing Effluent Limitations for Individual Sewage Permits.”

**Water Quality-Based Limitations**

Comments: No water quality modeling was conducted due to the discharge to a reservoir and the significant amount of assimilative capacity available for mixing.

**Best Professional Judgment (BPJ) Limitations**

Comments: CBOD<sub>5</sub> and TSS limits of 10/20 mg/l as an average monthly/IMAX were placed in the permit as tertiary treatment requirements to avoid creating a nuisance.

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

The TRC IMAX limit of 1.2 mg/l is being retained from the previous permit due to anti-backsliding provisions.

**Anti-Backsliding**

N/A

**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) <sup>(1)</sup> |                  | Concentrations (mg/L) |                 |               |                  | Minimum <sup>(2)</sup> 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 Daily Min         | XXX             | 9.0 Daily Max | XXX              | 1/day  | Grab                 |
| DO                          | XXX                                 | XXX              | 4.0 Daily Min         | XXX             | XXX           | XXX              | 1/day  | Grab                 |
| TRC                         | XXX                                 | XXX              | XXX                   | 0.5             | XXX           | 1.2              | 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).