

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

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

Application No. PA0083917  
APS ID 955068  
Authorization ID 1495547

**Applicant and Facility Information**

|                           |                                                                                                                                                                    |                  |                                                           |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------|
| Applicant Name            | <u>Edge Rubber Recycling LLC</u>                                                                                                                                   | Facility Name    | <u>Edge Rubber</u>                                        |
| Applicant Address         | <u>811 Progress Road</u><br><u>Chambersburg, PA 17201-3257</u>                                                                                                     | Facility Address | <u>811 Progress Road</u><br><u>Chambersburg, PA 17201</u> |
| Applicant Contact         | <u>Jan Strock</u>                                                                                                                                                  | Facility Contact | <u>Jan Strock</u>                                         |
| Applicant Phone           | <u>(717) 267-0599</u>                                                                                                                                              | Facility Phone   | <u>(717) 267-0599</u>                                     |
| Client ID                 | <u>339504</u>                                                                                                                                                      | Site ID          | <u>246221</u>                                             |
| SIC Code                  | <u>2296,3011,3052</u><br>Manufacturing - Rubber And Plastics<br>Hose And Belting,Manufacturing - Tire<br>Cord And Fabrics,Manufacturing - Tires<br>And Inner Tubes | Municipality     | <u>Chambersburg Borough</u>                               |
| SIC Description           |                                                                                                                                                                    | County           | <u>Franklin</u>                                           |
| Date Application Received | <u>August 14, 2024</u>                                                                                                                                             | EPA Waived?      | <u>Yes</u>                                                |
| Date Application Accepted | <u>September 4, 2024</u>                                                                                                                                           | If No, Reason    | <u></u>                                                   |
| Purpose of Application    | <u>NPDES Renewal.</u>                                                                                                                                              |                  |                                                           |

**Summary of Review**

Edge Rubber Recycling LLC (Edge Rubber) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on April 29, 2019 and became effective on May 1, 2019. The permit expired on April 30, 2024.

Based on the review, it is recommended that the permit be drafted.

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>Jinsu Kim</i><br>Jinsu Kim / Environmental Engineering Specialist                   | April 1, 2025 |
| x       |      | <i>Maria D. Bebenek</i> for<br>Daniel W. Martin, P.E. / Environmental Engineer Manager | May 15, 2025  |
| x       |      | <i>Maria D. Bebenek</i><br>Maria D. Bebenek, P.E. / Program Manager                    | May 15, 2025  |

**Discharge, Receiving Waters and Water Supply Information**

|                                                                                 |                                                                                    |                              |                               |       |      |       |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------|------|-------|
| Outfall No.                                                                     | <u>001</u>                                                                         | Design Flow (MGD)            | <u>.06</u>                    |       |      |       |
| Latitude                                                                        | <u>39° 55' 40"</u>                                                                 | Longitude                    | <u>-77° 40' 00"</u>           |       |      |       |
| Quad Name                                                                       | <u>Chambersburg</u>                                                                | Quad Code                    | <u>1924</u>                   |       |      |       |
| Wastewater Description: <u>Noncontact Cooling Water (NCCW) &amp; Stormwater</u> |                                                                                    |                              |                               |       |      |       |
|                                                                                 |                                                                                    |                              |                               |       |      |       |
| Receiving Waters                                                                | <u>UNT of Conococheague Creek</u>                                                  | Stream Code                  | <u>60178</u>                  |       |      |       |
| NHD Com ID                                                                      | <u>49485396</u>                                                                    | RMI                          | <u>0.19</u>                   |       |      |       |
| Drainage Area                                                                   | <u>0.6</u>                                                                         | Yield (cfs/mi <sup>2</sup> ) | <u>0.111</u>                  |       |      |       |
| Q <sub>7-10</sub> Flow (cfs)                                                    | <u>1.49</u>                                                                        | Q <sub>7-10</sub> Basis      | <u>USGS gage no. 01614500</u> |       |      |       |
| Elevation (ft)                                                                  | _____                                                                              | Slope (ft/ft)                | _____                         |       |      |       |
| Watershed No.                                                                   | <u>13-C</u>                                                                        | Chapter 93 Class.            | <u>WWF</u>                    |       |      |       |
| Existing Use                                                                    | <u>None</u>                                                                        | Existing Use Qualifier       | <u>None</u>                   |       |      |       |
| Exceptions to Use                                                               | <u>None</u>                                                                        | Exceptions to Criteria       | <u>None</u>                   |       |      |       |
| Assessment Status                                                               | <u>Attaining Use(s)</u>                                                            |                              |                               |       |      |       |
| Cause(s) of Impairment                                                          | _____                                                                              |                              |                               |       |      |       |
| Source(s) of Impairment                                                         | _____                                                                              |                              |                               |       |      |       |
| TMDL Status                                                                     | <table border="0"> <tr> <td>_____</td> <td>Name</td> <td>_____</td> </tr> </table> |                              |                               | _____ | Name | _____ |
| _____                                                                           | Name                                                                               | _____                        |                               |       |      |       |
|                                                                                 |                                                                                    |                              |                               |       |      |       |
| Nearest Downstream Public Water Supply Intake                                   | <u>Hagerstown, MD</u>                                                              |                              |                               |       |      |       |
| PWS Waters                                                                      | <u>Potomac River</u>                                                               | Flow at Intake (cfs)         | _____                         |       |      |       |
| PWS RMI                                                                         | _____                                                                              | Distance from Outfall (mi)   | _____                         |       |      |       |

**Drainage Area**

The discharge is to Unnamed Tributary 60178 of Conococheague Creek at RMI 0.19. A drainage area upstream of the point of discharge is estimated to be 0.6 sq.mi according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

**Streamflow**

USGS StreamStats produced a Q<sub>7-10</sub> flow of 1.49 cfs at the point of discharge. However, the estimated drainage area is lower than the minimum required value to be used in regression equations to accurately calculate the Q<sub>7-10</sub>. As shown below, streamflows have then been calculated using the flow data obtained from the nearby USGS gage station no. 01614500, located on Conococheague Creek at Fairview, MD.

$$\begin{aligned} \text{Low Flow Yield} &= Q_{7-10\text{gage}} / \text{Drainage Area}_{\text{gage}} = 55 \text{ cfs} / 494 \text{ sq.mi} = 0.111 \text{ cfs} / \text{sq.mi.} \\ Q_{7-10\text{site}} &= \text{Low Flow Yield} * \text{Drainage Area}_{\text{site}} = 0.111 \text{ cfs/sq.mi} * 0.6 \text{ sq.mi} = 0.0666 \text{ cfs} \\ Q_{1-10}/Q_{7-10} &= 48.1 \text{ cfs} / 55 \text{ cfs} = 0.87:1 \\ Q_{30-10}/Q_{7-10} &= 65.3 \text{ cfs} / 55 \text{ cfs} = 1.19:1 \end{aligned}$$

**Unnamed Tributary 60178 of Conococheague Creek**

Under Pa Code §93.9z, all unnamed tributaries of Conococheague Creek from LR28017 to PA-MD State Border are designated as warm water and migratory fishes. The main stem, Conococheague Creek is also designated as warm water and migratory fishes in this section of the stream. No special protection water is therefore impacted by this discharge. No Class A Wild Trout Fishery is impacted by this discharge. DEP's 2024 integrated water quality report indicates that the discharge is located in a stream segment listed as attaining use(s).

**Public Water Supply Intake**

The fact sheet prepared during the last permit renewal indicates that the nearest downstream public water supply intake is at Hagerstown, MD on Potomac River. Given its distance and nature, the discharge is not expected to impact the water supply.

**Facility Information**

Under SIC Code 3069, Edge Rubber is a manufacturer of fine-grade rubber products from various types of recycled tire materials. The site located at consists of a manufacturing facility, office, loading/unloading areas, material storage areas, and parking lots. Edge Rubber has shut down its tire shredding operation previously located in the Cumberland Valley Business Park (1711 Opportunity Avenue, Chambersburg PA 17201). Edge Rubber is now utilizing tire shredding operation at the current facility (811 Progress Road, Chambersburg PA 17201).

There are currently three (3) discharge outfalls managed by Edge Rubber at this facility. Two (2) of these outfalls, Outfall 002 and Outfall 003, receive solely stormwater drained from this site. Stormwater from Outfall 002 (or S01) is discharged to a rock lined basin located northwest of the site and either infiltrates into ground or overflows the rear berm to Unnamed Tributary of Conococheague Creek. Stormwater from Outfall 003 (or S02) is discharged into a dry swale located northeast of the site. Outfall 001 receives stormwater from loading areas. Outfall 001 also receives non-contacting cooling water from the manufacturing facility in which municipal water is used to cool products for packaging. No process is generated from this facility and all sanitary wastewater is sent to Chambersburg WWTP.

**Compliance History**

| <b>Compliance History</b>      |                                                                                                                                                                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Summary of DMRs:</b>        | A summary of past 12-month DMR data is presented on the next page.                                                                                                                                                                                                               |
| <b>Summary of Inspections:</b> | 04/06/2022: DEP conducted a complaint response inspection as a result of a complaint on 3/26/2022 stating that oily black water/crumb rubber was discharging into a partially constructed stormwater basin. The Clean Streams Law violation was noted at the time of inspection. |
| <b>Other Comments:</b>         | <p>Since the last reissuance, there were three (3) permit violations; all of them were associated with the late DMR submission.</p> <p>DEP's database shows that there is no open violation associated with this permittee or facility.</p>                                      |

Effluent Data

DMR Data for Outfall 001 (from March 1, 2024 to February 28, 2025)

| Parameter                              | FEB-25 | JAN-25 | DEC-24   | NOV-24 | OCT-24 | SEP-24 | AUG-24 | JUL-24 | JUN-24   | MAY-24 | APR-24 | MAR-24 |
|----------------------------------------|--------|--------|----------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| Flow (MGD)<br>Average Monthly          | 0.031  | 0.033  | 0.033    | 0.035  | 0.045  | 0.051  | 0.057  | 0.047  | 0.050    | 0.040  | 0.040  | 0.039  |
| Flow (MGD)<br>Daily Maximum            | 0.046  | 0.054  | 0.060    | 0.048  | 0.091  | 0.092  | 0.090  | 0.080  | 0.088    | 0.106  | 0.093  | 0.059  |
| pH (S.U.)<br>Daily Minimum             | 7.0    | 7.8    | 7.9      | 7.7    | 7.5    | 7.2    | 7.0    | 6.7    | 7.0      | 6.9    | 6.7    | 6.7    |
| pH (S.U.)<br>Daily Maximum             | 8.4    | 8.4    | 8.4      | 8.3    | 8.5    | 8.3    | 7.7    | 7.8    | 7.9      | 7.7    | 7.1    | 7.6    |
| TRC (mg/L)<br>Average Monthly          | 1.05   | 1.05   | 1.00     | 0.80   | 0.83   | 0.67   | 0.57   | 0.73   | 0.75     | 0.83   | 0.92   | 0.94   |
| TRC (mg/L)<br>Instantaneous<br>Maximum | 1.14   | 1.12   | 1.06     | 0.85   | 0.89   | 0.76   | 0.60   | 0.84   | 0.83     | 0.91   | 0.95   | 1.01   |
| Temperature (°F)<br>Average Monthly    | 56     | 53     | 56       | 67     | 71     | 71     | 71     | 72     | 69       | 69     | 62     | 63     |
| Temperature (°F)<br>Daily Maximum      | 65     | 56     | 65       | 73     | 76     | 77     | 77     | 78     | 70       | 72     | 66     | 64     |
| TSS (mg/L)<br>Daily Maximum            |        |        | 1.0      |        |        |        |        |        | 15.0     |        |        |        |
| Oil and Grease (mg/L)<br>Daily Maximum |        |        | < 4.95   |        |        |        |        |        | < 10.0   |        |        |        |
| Total Zinc (mg/L)<br>Daily Maximum     |        |        | < 0.0200 |        |        |        |        |        | < 0.0200 |        |        |        |

DMR Data for Outfall 002 (from March 1, 2024 to February 28, 2025)

| Parameter                              | FEB-25 | JAN-25 | DEC-24 | NOV-24 | OCT-24 | SEP-24 | AUG-24 | JUL-24 | JUN-24   | MAY-24 | APR-24 | MAR-24 |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| pH (S.U.)<br>Daily Maximum             |        |        |        |        |        |        |        |        | 7.7      |        |        |        |
| TSS (mg/L)<br>Daily Maximum            |        |        |        |        |        |        |        |        | 9.0      |        |        |        |
| Oil and Grease (mg/L)<br>Daily Maximum |        |        |        |        |        |        |        |        | < 10.0   |        |        |        |
| Total Zinc (mg/L)<br>Daily Maximum     |        |        |        |        |        |        |        |        | < 0.0200 |        |        |        |

**Existing Effluent Limitations and Monitoring Requirements**

A table below shows effluent limits and monitoring requirements established in the existing permit renewal:

Outfall 001

| Parameter                     | Effluent Limitations                |                     |                       |                    |                  |                     | Monitoring Requirements                            |                            |
|-------------------------------|-------------------------------------|---------------------|-----------------------|--------------------|------------------|---------------------|----------------------------------------------------|----------------------------|
|                               | Mass Units (lbs/day) <sup>(1)</sup> |                     | Concentrations (mg/L) |                    |                  |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                               | Average<br>Monthly                  | Average<br>Weekly   | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| Flow (MGD)                    | Report                              | Report<br>Daily Max | XXX                   | XXX                | XXX              | XXX                 | Continuous                                         | Measured                   |
| pH (S.U.)                     | XXX                                 | XXX                 | 6.0<br>Daily Min      | XXX                | 9.0              | XXX                 | 1/week <sup>(3)</sup>                              | Grab                       |
| Total Residual Chlorine (TRC) | XXX                                 | XXX                 | XXX                   | Report             | XXX              | Report              | 1/week <sup>(3)</sup>                              | Grab                       |
| Temperature (deg F) (°F)      | XXX                                 | XXX                 | XXX                   | Report             | Report           | XXX                 | 1/week <sup>(3)</sup>                              | I-S                        |
| Total Suspended Solids        | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Oil and Grease                | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Zinc, Total                   | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

Outfall 002

| Parameter              | Effluent Limitations                |                   |                       |                    |                  |                     | Monitoring Requirements                            |                            |
|------------------------|-------------------------------------|-------------------|-----------------------|--------------------|------------------|---------------------|----------------------------------------------------|----------------------------|
|                        | Mass Units (lbs/day) <sup>(1)</sup> |                   | Concentrations (mg/L) |                    |                  |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                        | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| pH (S.U.)              | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Total Suspended Solids | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Oil and Grease         | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Zinc, Total            | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

Existing Effluent Limitations and Monitoring Requirements (continued)

Outfall 003

| Parameter              | Effluent Limitations                |                   |                       |                    |                  |                     | Monitoring Requirements                            |                            |
|------------------------|-------------------------------------|-------------------|-----------------------|--------------------|------------------|---------------------|----------------------------------------------------|----------------------------|
|                        | Mass Units (lbs/day) <sup>(1)</sup> |                   | Concentrations (mg/L) |                    |                  |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                        | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| pH (S.U.)              | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Total Suspended Solids | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Zinc, Total            | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

**Development of Effluent Limitations**

|                         |                                 |                   |                |
|-------------------------|---------------------------------|-------------------|----------------|
| Outfall No.             | 001                             | Design Flow (MGD) | .06            |
| Latitude                | 39° 55' 40.00"                  | Longitude         | -77° 40' 0.00" |
| Wastewater Description: | Noncontact Cooling Water (NCCW) |                   |                |

**Technology-Based Limitations**

There is no applicable federal effluent limitations and guidelines (ELGs) associated with non-contact cooling water discharges from this facility. This facility is subject to DEP's effluent standards for industrial wastes found in 25 Pa Code §95.2 which require pH of 6.0 (minimum) and 9.0 (maximum). Non-contact cooling water is not oil-bearing wastewater; therefore 25 Pa Code §95.2(2) is not applicable.

**Water Quality-Based Limitations**

A reasonable potential analysis using WQM is not needed as the discharge is non-contact cooling water.

Based on the sample results provided as part of the application, it appears that there are no toxic parameters presented in the effluent at the level of concern (i.e., mostly non-detected or below water quality criteria). No Toxics Management Spreadsheet has therefore been utilized.

A thermal discharge occurs from this facility; therefore, a reasonable potential analysis using DEP's Thermal Limits Spreadsheet is necessary for temperature to ensure protection of water quality standards in the receiving stream. Previously, Conococheague Creek at the confluence of Unnamed Tributary 60178 of Conococheague Creek (receiving stream) was determined to be a point of first use where an aquatic use occurs within well-defined stream channels and continuous stream flow. As a result, a water quality modeling is performed at this point. USGS StreamStats provided a Q7-10 flow of 30.3 cfs at the point of first surface water use. DEP's Thermal Discharge worksheet indicated that no WQBEL is required to protect water quality standards at this point. No effluent limits are therefore recommended. The existing monitoring requirement will continue to be included in the permit.

**Best Professional Judgment (BPJ) Limitations**

During the previous inspection in 2017, DEP noticed that non-contact cooling water contains a total residual chlorine level of 0.66 mg/L. Based on a conversation with the site representative, it appears potable municipal water is used for non-contact cooling water. The current DEP drinking water standard (i.e., maximum contaminant level) for chlorine is 4.0 mg/L and the current DEP aquatic life criteria for total residual chlorine is 0.011 mg/L (four-day average) and 0.019 mg/L (1-hour average). As a result, the existing permit contains a weekly monitoring of Total Residual Chlorine. A continuation of this monitoring is recommended based on the past 12-month DMR data showing TRC is consistently presented in the effluent.

In addition to abovementioned temperature requirements, Part C of the permit will include the following standard narrative effluent limits associated with thermal discharges.

- This discharge shall not cause a change in the stream temperature of more than 2°F during any one hour.
- There shall be no net addition of pollutants to non-contact cooling water over intake values except for heat and water conditioning additives for which complete information was submitted in the application or is required to be submitted as a condition of the permit.

**Additional Considerations**

The existing requirement to monitor for discharge flow will remain unchanged in the permit in accordance with 40 CFR §122.44(i)(1)(ii).

**Development of Effluent Limitations and Monitoring Requirements**

|                                |                |                          |                |
|--------------------------------|----------------|--------------------------|----------------|
| <b>Outfall No.</b>             | 002            | <b>Design Flow (MGD)</b> | N/A            |
| <b>Latitude</b>                | 39° 55' 34.60" | <b>Longitude</b>         | -77° 40' 0.00" |
| <b>Wastewater Description:</b> | Stormwater     |                          |                |
| <b>Outfall No.</b>             | 003            | <b>Design Flow (MGD)</b> | N/A            |
| <b>Latitude</b>                | 39° 55' 37.00" | <b>Longitude</b>         | -77° 40' 1.00" |
| <b>Wastewater Description:</b> | Stormwater     |                          |                |

Outfall 002 (S01) receives stormwater from the parking areas and from the concrete pad behind the facility used to store raw material and Outfall 003 (S02) receives stormwater from plant roof drains. Outfall 001 receives stormwater from the loading dock area and then commingled with noncontact cooling water.

A water quality modeling is not applicable as the discharge rate varies and is solely dependent on precipitation. The existing permit requires an annual monitoring of Total Suspended Solids, Total Kjeldahl Nitrogen, and Total Iron at Outfalls 002 and 003. This monitoring requirement was directly derived from DEP's previous NPDES PAG-03 General Permit requirements for stormwater discharges associated with industrial activities. This is a typical approach used by DEP to develop permit requirements for those facilities discharging stormwater under an individual industrial waste NPDES permit.

According to DEP's current NPDES PAG-03 General Permit, Edge Rubber under SIC Cod 3069 is subject to Appendix S permit requirements associated with industrial activity from rubber, miscellaneous plastic products and miscellaneous manufacturing industries. This appendix requires a semi-annual monitoring of pH, Total Suspended Solids and Total Zinc. For Outfall 002, because stormwater is drained from the parking areas, a monitoring of oil/grease is recommended in addition to these parameters with the same monitoring frequency.

Because Outfall 001 also receives stormwater, discharges of stormwater from the loading dock area must also be regulated. The same permit requirements assigned for Outfalls 002 and 003 will be assigned to Outfall 001. It is noteworthy that because stormwater is commingled with noncontact cooling water, a footnote will be provided in the permit to ask Edge Rubber to collect samples of stormwater when discharges of non-contact cooling water do not occur and vice versa to obtain the samples that are representative.

**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) <sup>(1)</sup> |                     | Concentrations (mg/L) |                    |                  |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                  | Average<br>Monthly                  | Average<br>Weekly   | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| Flow (MGD)       | Report                              | Report<br>Daily Max | XXX                   | XXX                | XXX              | XXX                 | Continuous                                         | Measured                   |
| pH (S.U.)        | XXX                                 | XXX                 | 6.0<br>Daily Min      | XXX                | 9.0              | XXX                 | 1/week                                             | Grab                       |
| TRC              | XXX                                 | XXX                 | XXX                   | Report             | XXX              | Report              | 1/week                                             | Grab                       |
| Temperature (°F) | XXX                                 | XXX                 | XXX                   | Report             | Report           | XXX                 | 1/week                                             | I-S                        |
| TSS              | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Oil and Grease   | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Total Zinc       | XXX                                 | XXX                 | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

**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 002, 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><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| pH (S.U.)      | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| TSS            | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Oil and Grease | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Total Zinc     | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

Compliance Sampling Location:  

Other Comments:

**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 003, 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><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|            | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Average<br>Monthly | Daily<br>Maximum | Instant.<br>Maximum |                                                    |                            |
| pH (S.U.)  | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| TSS        | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |
| Total Zinc | XXX                                 | XXX               | XXX                   | XXX                | Report           | XXX                 | 1/6 months                                         | Grab                       |

| Tools and References Used to Develop Permit |                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>                    | WQM for Windows Model (see Attachment <span style="background-color: yellow;">      </span> )                                                                                                                      |
| <input type="checkbox"/>                    | Toxics Management Spreadsheet (see Attachment <span style="background-color: yellow;">      </span> )                                                                                                              |
| <input type="checkbox"/>                    | TRC Model Spreadsheet (see Attachment <span style="background-color: yellow;">      </span> )                                                                                                                      |
| <input type="checkbox"/>                    | Temperature Model Spreadsheet (see Attachment <span style="background-color: yellow;">      </span> )                                                                                                              |
| <input type="checkbox"/>                    | Water Quality Toxics Management Strategy, 361-0100-003, 4/06.                                                                                                                                                      |
| <input type="checkbox"/>                    | Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.                                                                                                             |
| <input type="checkbox"/>                    | Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.                                                                                                                                                |
| <input type="checkbox"/>                    | Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.                                                                                                                  |
| <input type="checkbox"/>                    | Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.                                                                                                                       |
| <input type="checkbox"/>                    | Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.                                                                                                      |
| <input type="checkbox"/>                    | Pennsylvania CSO Policy, 386-2000-002, 9/08.                                                                                                                                                                       |
| <input type="checkbox"/>                    | Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.                                                                                                                                        |
| <input type="checkbox"/>                    | Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.                                                                                           |
| <input type="checkbox"/>                    | Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.                                                                                                                                              |
| <input type="checkbox"/>                    | Implementation Guidance Design Conditions, 386-2000-007, 9/97.                                                                                                                                                     |
| <input type="checkbox"/>                    | Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.                                                    |
| <input type="checkbox"/>                    | Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.                                                                             |
| <input type="checkbox"/>                    | Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.                                                                   |
| <input type="checkbox"/>                    | Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.                                                              |
| <input type="checkbox"/>                    | Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.                                                                                                                                    |
| <input type="checkbox"/>                    | Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.                                             |
| <input type="checkbox"/>                    | Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.                                                                                                                           |
| <input type="checkbox"/>                    | Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.                                                                                                                                              |
| <input type="checkbox"/>                    | Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.                                                                                                       |
| <input type="checkbox"/>                    | Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.       |
| <input type="checkbox"/>                    | Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.                                                                               |
| <input type="checkbox"/>                    | Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999. |
| <input type="checkbox"/>                    | Design Stream Flows, 386-2000-003, 9/98.                                                                                                                                                                           |
| <input type="checkbox"/>                    | Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.                                     |
| <input type="checkbox"/>                    | Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.                                                                                                                         |
| <input type="checkbox"/>                    | Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.                                                                                                                   |
| <input type="checkbox"/>                    | SOP: <span style="background-color: yellow;">      </span>                                                                                                                                                         |
| <input type="checkbox"/>                    | Other: <span style="background-color: yellow;">      </span>                                                                                                                                                       |

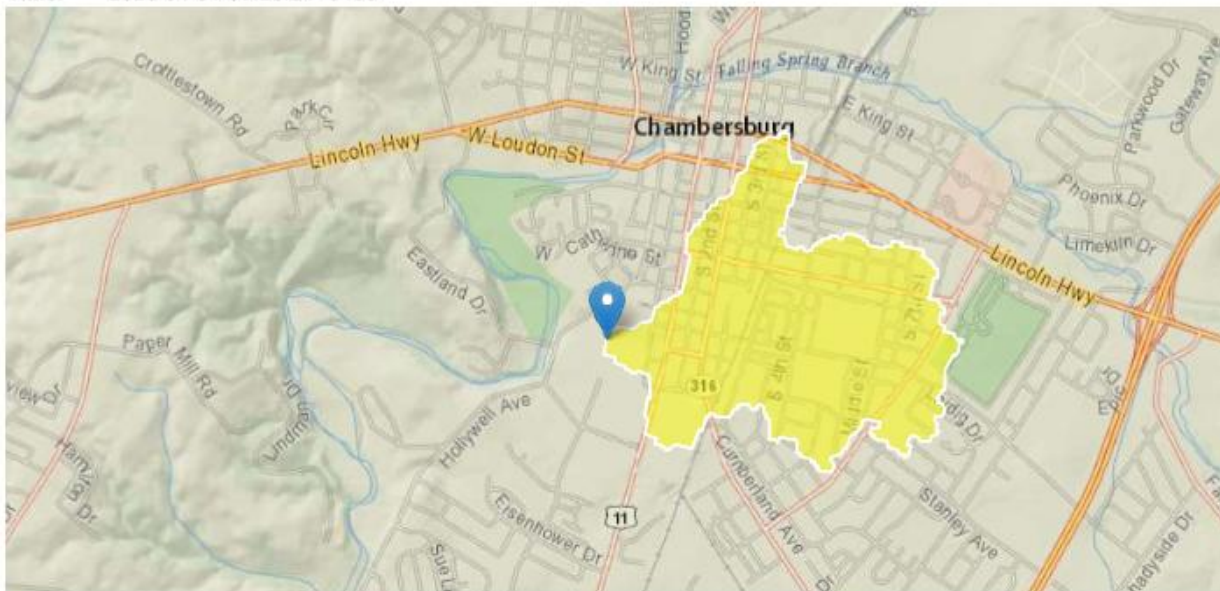
## StreamStats Report

Region ID: PA

Workspace ID: PA20250401132259612000

Clicked Point (Latitude, Longitude): 39.92782, -77.66697

Time: 2025-04-01 09:23:24 -0400



Collapse All

### > Basin Characteristics

| Parameter Code | Parameter Description                                              | Value | Unit                  |
|----------------|--------------------------------------------------------------------|-------|-----------------------|
| CARBON         | Percentage of area of carbonate rock                               | 100   | percent               |
| DRNAREA        | Area that drains to a point on a stream                            | 0.6   | square miles          |
| PRECIP         | Mean Annual Precipitation                                          | 39    | inches                |
| ROCKDEP        | Depth to rock                                                      | 5.6   | feet                  |
| STRDEN         | Stream Density -- total length of streams divided by drainage area | 0.12  | miles per square mile |

## ➤ Low-Flow Statistics

## Low-Flow Statistics Parameters [Low Flow Region 2]

| Parameter Code | Parameter Name            | Value | Units                 | Min Limit | Max Limit |
|----------------|---------------------------|-------|-----------------------|-----------|-----------|
| CARBON         | Percent Carbonate         | 100   | percent               | 0         | 99        |
| DRNAREA        | Drainage Area             | 0.6   | square miles          | 4.93      | 1280      |
| PRECIP         | Mean Annual Precipitation | 39    | inches                | 35        | 50.4      |
| ROCKDEP        | Depth to Rock             | 5.6   | feet                  | 3.32      | 5.65      |
| STRDEN         | Stream Density            | 0.12  | miles per square mile | 0.51      | 3.1       |

## Low-Flow Statistics Disclaimers [Low Flow Region 2]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

## Low-Flow Statistics Flow Report [Low Flow Region 2]

| Statistic               | Value | Unit               |
|-------------------------|-------|--------------------|
| 7 Day 2 Year Low Flow   | 1.83  | ft <sup>3</sup> /s |
| 30 Day 2 Year Low Flow  | 1.76  | ft <sup>3</sup> /s |
| 7 Day 10 Year Low Flow  | 1.49  | ft <sup>3</sup> /s |
| 30 Day 10 Year Low Flow | 1.45  | ft <sup>3</sup> /s |
| 90 Day 10 Year Low Flow | 1.6   | ft <sup>3</sup> /s |

*Low-Flow Statistics Citations*

**Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.28.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



Instructions

Inputs

Facility: **Edge Rubber**

Permit No.: **PA0083917**

Stream Name: **UNT of Conococheague Creek**

Analyst/Engineer: **Jinsu Kim**

Stream Q7-10 (cfs)\*: **30.3**

Outfall No.: **001**

Analysis Type\*: **WWF**

Facility Flows

| Semi-Monthly Increment | Intake (Stream) (MGD)* | Intake (External) (MGD)* | Consumptive Loss (MGD)* | Discharge Flow (MGD) |
|------------------------|------------------------|--------------------------|-------------------------|----------------------|
| Jan 1-31               |                        | 0.06                     |                         | 0.06                 |
| Feb 1-29               |                        | 0.06                     |                         | 0.06                 |
| Mar 1-31               |                        | 0.06                     |                         | 0.06                 |
| Apr 1-15               |                        | 0.06                     |                         | 0.06                 |
| Apr 16-30              |                        | 0.06                     |                         | 0.06                 |
| May 1-15               |                        | 0.06                     |                         | 0.06                 |
| May 16-31              |                        | 0.06                     |                         | 0.06                 |
| Jun 1-15               |                        | 0.06                     |                         | 0.06                 |
| Jun 16-30              |                        | 0.06                     |                         | 0.06                 |
| Jul 1-31               |                        | 0.06                     |                         | 0.06                 |
| Aug 1-15               |                        | 0.06                     |                         | 0.06                 |
| Aug 16-31              |                        | 0.06                     |                         | 0.06                 |
| Sep 1-15               |                        | 0.06                     |                         | 0.06                 |
| Sep 16-30              |                        | 0.06                     |                         | 0.06                 |
| Oct 1-15               |                        | 0.06                     |                         | 0.06                 |
| Oct 16-31              |                        | 0.06                     |                         | 0.06                 |
| Nov 1-15               |                        | 0.06                     |                         | 0.06                 |
| Nov 16-30              |                        | 0.06                     |                         | 0.06                 |
| Dec 1-31               |                        | 0.06                     |                         | 0.06                 |

Stream Flows

| Q7-10 Multipliers (Default Shown) | PMF  | Seasonal Stream Flow (cfs) | Downstream Stream Flow (cfs) |
|-----------------------------------|------|----------------------------|------------------------------|
| 3.2                               | 1.00 | 96.96                      | 97.05                        |
| 3.5                               | 1.00 | 106.05                     | 106.14                       |
| 7                                 | 1.00 | 212.10                     | 212.19                       |
| 9.3                               | 1.00 | 281.79                     | 281.88                       |
| 9.3                               | 1.00 | 281.79                     | 281.88                       |
| 5.1                               | 1.00 | 154.53                     | 154.62                       |
| 5.1                               | 1.00 | 154.53                     | 154.62                       |
| 3                                 | 1.00 | 90.90                      | 90.99                        |
| 3                                 | 1.00 | 90.90                      | 90.99                        |
| 1.7                               | 1.00 | 51.51                      | 51.60                        |
| 1.4                               | 1.00 | 42.42                      | 42.51                        |
| 1.4                               | 1.00 | 42.42                      | 42.51                        |
| 1.1                               | 1.00 | 33.33                      | 33.42                        |
| 1.1                               | 1.00 | 33.33                      | 33.42                        |
| 1.2                               | 1.00 | 36.36                      | 36.45                        |
| 1.2                               | 1.00 | 36.36                      | 36.45                        |
| 1.6                               | 1.00 | 48.48                      | 48.57                        |
| 1.6                               | 1.00 | 48.48                      | 48.57                        |
| 2.4                               | 1.00 | 72.72                      | 72.81                        |

[illegible]



Thermal Limits Spreadsheet  
Version 1.0, April 2024

Instructions

WWF Results

Recommended Limits for Case 1 or Case 2

| Semi-Monthly Increment | WWF Target Maximum Stream Temp. (°F) | Case 1 Daily WLA (Million BTUs/day) | Case 2 Daily WLA (°F) |
|------------------------|--------------------------------------|-------------------------------------|-----------------------|
| Jan 1-31               | 40                                   | N/A -- Case 2                       | 110.0                 |
| Feb 1-29               | 40                                   | N/A -- Case 2                       | 110.0                 |
| Mar 1-31               | 46                                   | N/A -- Case 2                       | 110.0                 |
| Apr 1-15               | 52                                   | N/A -- Case 2                       | 110.0                 |
| Apr 16-30              | 58                                   | N/A -- Case 2                       | 110.0                 |
| May 1-15               | 64                                   | N/A -- Case 2                       | 110.0                 |
| May 16-31              | 72                                   | N/A -- Case 2                       | 110.0                 |
| Jun 1-15               | 80                                   | N/A -- Case 2                       | 110.0                 |
| Jun 16-30              | 84                                   | N/A -- Case 2                       | 110.0                 |
| Jul 1-31               | 87                                   | N/A -- Case 2                       | 110.0                 |
| Aug 1-15               | 87                                   | N/A -- Case 2                       | 110.0                 |
| Aug 16-31              | 87                                   | N/A -- Case 2                       | 110.0                 |
| Sep 1-15               | 84                                   | N/A -- Case 2                       | 110.0                 |
| Sep 16-30              | 78                                   | N/A -- Case 2                       | 110.0                 |
| Oct 1-15               | 72                                   | N/A -- Case 2                       | 110.0                 |
| Oct 16-31              | 66                                   | N/A -- Case 2                       | 110.0                 |
| Nov 1-15               | 58                                   | N/A -- Case 2                       | 110.0                 |
| Nov 16-30              | 50                                   | N/A -- Case 2                       | 110.0                 |
| Dec 1-31               | 42                                   | N/A -- Case 2                       | 110.0                 |

| Date     | Version |
|----------|---------|
| 4/3/2024 | 1.0     |

|           |
|-----------|
| Change(s) |
| Original  |