

**Aquatic Resources Impact Table**

**Riverine Resources**

**Bucks County**

| Identification                                  |                       |   |                         |                            | Location              |             |              |                           |              | Stream Temporary Impacts                      |  |  | Stream Permanent Impacts                       |   |   | Floodway Temporary Impacts                    |  |  | Floodway Permanent Impacts                     |   |   | Crossing Information                           |  |   |                              |
|---|-----------------------|---|-------------------------|----------------------------|-----------------------|-------------|--------------|---------------------------|--------------|---|--|--|--|---|---|---|--|--|--|---|---|--|--|---|------------------------------|
| Watercourse ID and Crossing Number <sup>1</sup> | Watercourse Name      | Ch 93 Designated/ Existing Use <sup>2</sup> | Wild Trout <sup>3</sup> | Stocked Trout <sup>4</sup> | Milepost <sup>5</sup> | Latitude    | Longitude    | Municipality <sup>6</sup> | Quadrangle   | Temporary Crossing Length (feet) <sup>7</sup> | Temporary Crossing Width (feet) <sup>8</sup> | Temporary Impact Area (acres) <sup>9</sup> | Permanent Crossing Length (feet) <sup>10</sup> | Permanent Crossing Width (feet) <sup>11</sup> | Permanent Impact Area (acres) <sup>12</sup> | Temporary Crossing Length (feet) <sup>7</sup> | Temporary Crossing Width (feet) <sup>8</sup> | Temporary Impact Area (acres) <sup>9</sup> | Permanent Crossing Length (feet) <sup>10</sup> | Permanent Crossing Width (feet) <sup>11</sup> | Permanent Impact Area (acres) <sup>12</sup> | Primary Pipeline Crossing Method <sup>13</sup> | Secondary Pipeline Crossing Method <sup>13</sup> | Tertiary Pipeline Crossing Method <sup>13</sup> | Temporary Equipment Crossing |
| <b>PennEast Mainline Pipeline</b>               |                       |   |                         |                            |                       |             |              |                           |              |   |  |  |  |   |   |   |  |  |  |   |   |  |  |   |                              |
| 051515_JC_1004_E_MI                             | UNT to Delaware River | WWF, MF                                     | -                       | -                          | 76.2                  | 40.59672382 | -75.21126991 | Durham                    | Riegelsville | 89  | 9  | 0.012                                      | 44   | 9   | 0.006                                       | 80  | 143  | 0.187                                      | 55   | 172   | 0.118                                       | DPX  | FX   | DX-NF   | Mat Bridge or equivalent     |
| 052915_JC_1002_C_IN                             | Delaware Canal        | WWF, MF                                     | -                       | -                          | 77.6                  | 40.58412645 | -75.19490047 | Durham                    | Riegelsville | -   | -  | -  | 3  | 49  | 0.003                                       | -   | -  | -  | 3  | 54  | 0.004                                       | HDD  | HDD  | HDD   | N/A                          |
| 122315_DB_1001_P_MA                             | Delaware River        | WWF, MF                                     | -                       | -                          | 77.6                  | 40.58407114 | -75.19429938 | Durham                    | Riegelsville | -   | -  | -  | 3  | 298   | 0.021                                       | -   | -  | -  | 3  | 122   | 0.008                                       | HDD  | HDD  | HDD   | N/A                          |
| <b>TOTAL IMPACTS</b>                            |                       |   |                         |                            |                       |             |              |                           |              | <b>89</b>                                     | <b>9</b>                                     | <b>0.012</b>                               | <b>50</b>                                      | <b>356</b>                                    | <b>0.030</b>                                | <b>80</b>                                     | <b>143</b>                                   | <b>0.187</b>                               | <b>61</b>                                      | <b>348</b>                                    | <b>0.130</b>                                |  |  |   |                              |

Notes:

1. In instances where a watercourse is crossed by the proposed pipeline or workspace multiple times, crossing numbers (e.g. "-1", "-2") have been added to the Watercourse ID.

Watercourse ID Key: P = perennial, I = intermittent, E = ephemeral, MA = major, IN = intermediate, MI = minor, C = canal, D = ditch

2. Sources: PADEP Streams Chapter 93 Existing Use, dated 3/2019 and PADEP Streams Chapter 93 Designated Use, dated 3/2019. If a stream has an existing use, the designated use has been replaced with that value. Available at [www.pasda.psu.edu](http://www.pasda.psu.edu).

3. Sources: PFBC Stream Sections that Support Wild Trout Production, dated 7/2019 and PFBC Class A Wild Trout Streams, dated 7/2019. Available at [www.pasda.psu.edu](http://www.pasda.psu.edu). I = Class A Trout Water, II = Wilderness Trout Stream, III = Naturally Reproducing Trout Stream.

4. Sources: PASDA Stocked Trout Waters (Flowing Waters), dated 2019 and PASDA Trout Stocked Streams, dated 2019. Available at [www.pasda.psu.edu](http://www.pasda.psu.edu).

5. All route deviations implemented after the FERC Certificate Application are denoted with an "R" and indicate a MP equation. MPs with an "R1" indicate route deviations implemented and provided to FERC prior to the issuance of the DEIS. MPs with an "R2" indicate route deviations implemented as part of the September 2016 Route Update. MPs with an "R3" indicate route deviations implemented post-FERC Certificate issuance. All MPs without an "R" indicate that the route has not changed since the Certificate Application.

6. Sources: PennDOT Pennsylvania municipality boundaries, dated 1/2017 and PennDOT Pennsylvania county boundaries, dated 7/2018. Available at [www.pasda.psu.edu](http://www.pasda.psu.edu).

7. Temporary crossing lengths are measured within the temporary workspace parallel to the pipeline or along the access road centerline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the temporary workspace.

8. Temporary crossing widths are measured within the temporary workspace perpendicular to the pipeline or the access road centerline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the temporary workspace.

9. Temporary impact acres are measured within the temporary workspace and additional temporary workspace; the measurement does not include acreages impacted within the permanent ROW. A "-" denotes no impacts to the watercourse or floodway, as applicable.

10. Permanent crossing lengths are measured along the pipeline centerline, as applicable. In instance where the pipeline does not cross a watercourse or floodway, the permanent crossing length was measured along the edge of the permanent ROW or at the crossing location of a new or replacement culvert. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the permanent ROW.

11. Permanent crossing widths are measured within the permanent ROW perpendicular to the pipeline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the permanent ROW.

12. Permanent impact acres are measured within the permanent ROW, within an aboveground facility footprint, or represents a culvert installation or replacement. For HDDs and bores, the permanent impact is calculated as the length of the crossing times the pipe diameter. A "-" denotes no impacts to the watercourse or floodway, as applicable.

13. Crossing Type Key for Watercourse Channels:

- BX = Conventional Bore Crossing
- CD = Cofferdam Crossing
- DPX = Dam-and-Pump Crossing
- DX-NF = Dry Crossing If No Flow
- FX = Flume Crossing
- HDD = HDD Crossing
- N/A = Not Applicable