# ATTACHMENT 4

# Pennsylvania Wetland and Waterbody Impact Tables

Constitution submitted applications to the Federal Energy Regulatory Commission (FERC) and the US Army Corps of Engineers (USACE) establishing wetland impacts by determining how construction and operation activities affected delineated wetlands. Construction impacts are defined as the limits of disturbance during construction of the pipeline. Construction impacts are the sum of the temporary and permanent impacts. Operational wetland impacts are defined as the maintained corridor associated with the perpetual maintenance of wetlands in a specific cover type or the filling of a wetland for development of a permanent access road once construction is completed. Operational impacts are identified below as permanent impacts, further defining those impacts as conversion or fill. Conversion allows for the wetland to exist, however maintained as a different cover type, and fill converts the wetland to upland. The table below describes the temporary and permanent conversion of cover types as well as conversion of wetland to upland due to the placement of fill for access roads.

**Table 1. Pennsylvania - Temporary and Permanent Wetland Impacts**

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1X-W343 | 0.15 | PFO | 17 | 0.07 | | | 0.02 | | | | | | II |
| SU-1B-W226 | 0.31 | PEM | 81 | | | 0.15 | | | | | | | II |
| | 0.35 | PEM | 23 | | | 0.04 | | | | | | | II |
| SU-1C-W342 | 0.38 | PEM | 0 | | | 0.02 | | | | | | | N/A |
| SU-1B-W227 | 0.45 | PEM | 159 | | | 0.26 | | | | | | | II & IV |
| SU-1Q-W316 | 0.90 | PEM | 11 | | | 0.02 | | | | | | | II |
| SU-1B-W229 | 1.05 | PSS | 70 | | 0.12 | | | | 0.02 | | | | II |
| | 1.13 | PEM, PSS | 351 | | 0.04 | 0.57 | | | | | | | II |
| SU-1M-W230 | 1.74 | PEM | 4 | | | 0.07 | | | | | | | II |
| SU-1C-W187 | 2.13 | PEM | 116 | | | 0.15 | | | | | | | II |
| | 2.18 | PEM | 38 | | | 0.06 | | | | | | | II |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1C-W188 | 2.22 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| | 2.24 | PEM | 19 | | | 0.03 | | | | | | | II |
| | 2.27 | PEM | 183 | | | 0.30 | | | | | | | II |
| | 2.33 | PEM | 201 | | | 0.34 | | | | | | | II |
| SU-1C-W189 | 2.37 | PEM, PSS, PFO | 223 | 0.02 | 0.13 | 0.04 | 0.04 | | 0.03 | | | | II |
| SU-1C-W190 | 2.44 | PEM, PSS | 56 | | 0.01 | 0.10 | | | | | | | II |
| SU-1C-W191 | 2.46 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| SU-1B-W234 | 3.29 | PEM | 79 | | | 0.16 | | | | | | | II |
| SU-1C-W351 | 3.89 | PEM | 0 | | | 0.02 | | | | | | | N/A |
| | 3.93 | PEM | 0 | | | 0.02 | | | | | | | N/A |
| SU-1M-W236 | 4.23 | PSS | 0 | | 0.08 | | | | 0.01 | | | | N/A |
| | 4.26 | PSS | 0 | | 0.03 | | | | 0.01 | | | | N/A |
| SU-1B-W237 | 4.46 | PEM | 316 | | | 0.49 | | | | | | | II |
| SU-1B-W238 | 4.52 | PEM | 112 | | | 0.18 | | | | | | | II |
| SU-1B-W239 | 4.59 | PEM | 89 | | | 0.19 | | | | | | | II |
| SU-1I-W116 | 4.85 | PEM | 0 | | | 0.02 | | | | | | | N/A |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1X-W132B | 5.50 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| | 5.51 | PEM, PFO | 99 | 0.01 | | 0.18 | 0.01 | | | | | | II & IV |
| SU-1F-W134 | 6.53 | PEM | 31 | | | 0.05 | | | | | | | II |
| SU-1B-W133 | 6.67 | PEM, PSS | 292 | | 0.14 | 0.31 | | | 0.07 | | | | II |
| SU-1F-W135 | 6.72 | PEM, PSS | 357 | | 0.07 | 0.58 | | | 0.01 | | | | II |
| SU-1F-W137 | 7.25 | PFO | 13 | | | | 0.01 | | | | | | II |
| SU-1B-W140 | 8.35 | PSS | 68 | | 0.05 | | | | 0.02 | | | | II |
| SU-1B-W138 | 8.39 | PEM, PSS | 80 | | 0.01 | 0.14 | | | | | | | II |
| SU-1F-W139 | 8.73 | PFO | 48 | 0.12 | | | 0.04 | | | | | | II |
| | 8.78 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1F-W141 | 8.91 | PEM | 371 | | | 0.60 | | | | | | | II |
| | 9.04 | PEM | 67 | | | 0.11 | | | | | | | II |
| | 9.12 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| SU-1C-W349 | 9.16 | PEM | 82 | | | 0.09 | | | | | | | II |
| SU-1F-W141 | 9.23 | PEM | 91 | | | 0.10 | | | | | | | II & IV |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1D-W245 | 9.24 | PEM | 57 | | | 0.11 | | | | | | | II & IV |
| SU-1D-W250 | 9.96 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| SU-1X-W253 | 10.00 | PEM | 64 | | | 0.12 | | | | | | | II |
| SU-1D-W254 | 10.04 | PSS | 80 | | 0.11 | | | | 0.02 | | | | II |
| | 10.09 | PSS | 0 | | 0.03 | | | | | | | | N/A |
| SU-1X-W258 | 10.19 | PEM, PFO | 80 | 0.13 | | 0.01 | 0.05 | | | | | | II |
| | 10.30 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1X-W259 | 10.55 | PEM | 105 | | | 0.14 | | | | | | | II |
| SU-1B-W039 | 10.76 | PEM | 256 | | | 0.48 | | | | | | | II |
| SU-1D-W261 | 10.88 | PEM | 364 | | | 0.59 | | | | | | | II |
| SU-1G-W305 | 11.02 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1E-W040 | 11.03 | PFO | 86 | 0.05 | | | 0.06 | | | | | | II |
| | 11.06 | PFO | 170 | 0.15 | | | 0.12 | | | | | | II |
| | 11.09 | PFO | 6 | | | | 0.01 | | | | | | II |
| SU-1D-W262 | 11.28 | PEM | 94 | | | 0.13 | | | | | | | II |
| SU-1B-W041 | 11.31 | PFO | 0 | 0.01 | | | | | | | | | N/A |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1B-W045 | 11.62 | PFO | 89 | 0.09 | | | 0.06 | | | | | | II |
| | 11.66 | PFO | 0 | 0.02 | | | | | | | | | N/A |
| | 11.70 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1B-W048 | 11.86 | PEM | 90 | | | 0.16 | | | | | | | II |
| SU-1E-W046 | 11.90 | PEM | 191 | | | 0.26 | | | | | | | II |
| SU-1E-W070 | 11.95 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| SU-1G-W308 | 12.67 | PFO | 12 | 0.01 | | | 0.01 | | | | | | II |
| SU-1G-W306 | 12.69 | PFO | 56 | 0.07 | | | 0.05 | | | | | | II |
| SU-1L-W307 | 12.77 | PFO | 28 | 0.01 | | | 0.02 | | | | | | II |
| SU-1K-W278 | 12.84 | PFO | 103 | 0.11 | | | 0.07 | | | | | | II |
| | 12.86 | PFO | 1 | | | | 0.01 | | | | | | II |
| SU-1D-W326 | 13.56 | PFO | 139 | 0.14 | | | 0.09 | | | | | | II |
| SU-1D-W327 | 13.80 | PFO | 55 | 0.06 | | | 0.03 | | | | | | II |
| SU-1G-W054 | 14.24 | PEM | 162 | | | 0.28 | | | | | | | II |
| SU-1G-W055 | 14.36 | PFO | 34 | 0.04 | | | 0.02 | | | | | | II |
| SU-1B-W134 | 14.40 | PEM | 56 | | | 0.07 | | | | | | | II & IV |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| | 14.42 | PEM | 0 | | | 0.02 | | | | | | | N/A |
| SU-1K-W268 | 14.64 | PEM | 0 | | | 0.02 | | | | | | | N/A |
| SU-1C-W269 | 14.70 | PEM | 286 | | | 0.50 | | | | | | | II & IV |
| SU-1G-W058 | 15.19 | PEM, PSS | 0 | | 0.01 | 0.03 | | | | | | | N/A |
| SU-1G-W059A | 15.24 | PFO | 144 | 0.18 | | | 0.03 | | | | | | II |
| SU-1K-W061 | 15.47 | PEM | 41 | | | | | | | | | | V |
| SU-1K-W062 | 15.49 | PEM | 0 | | | | | | | | | | N/A |
| SU-1K-W061 | 15.49 | PEM | 11 | | | | | | | | | | V |
| | 15.52 | PEM | 0 | | | | | | | | | | N/A |
| SU-1K-W064 | 15.63 | PEM, PSS | 34 | | | | | | | | | | V |
| SU-1G-W068 | 15.82 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1K-W273 | 16.16 | PFO | 0 | 0.01 | | | 0.01 | | | | | | N/A |
| SU-1H-W161 | 16.33 | PFO | 111 | 0.09 | | | 0.08 | | | | | | II |
| SU-1H-W164 | 16.67 | PEM, PFO | 223 | 0.13 | | 0.07 | 0.14 | | | | | | II |
| SU-1Q-W319 | 18.65 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| SU-1S-W326 | 18.79 | PSS | 0 | | 0.01 | | | | | | | | N/A |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| | 18.81 | PSS | 72 | | 0.11 | | | | 0.02 | | | | II |
| SU-1L-W310 | 18.89 | PSS | 73 | | 0.11 | | | | 0.02 | | | | II & IV |
| SU-1X-W300 | 19.91 | PSS | 144 | | 0.17 | | | | 0.03 | | | | II |
| SU-1X-W301 | 19.98 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| | 20.01 | PFO | 139 | 0.10 | | | 0.09 | | | | | | II |
| SU-1S-W303 | 20.75 | PEM | 36 | | | 0.05 | | | | | | | II |
| SU-1S-W306 | 20.79 | PEM | 18 | | | 0.02 | | | | | | | II |
| SU-1S-W305 | 20.80 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1A-W348 | 21.00 | PFO | 0 | | | | 0.01 | | | | | | N/A |
| SU-1C-W347 | 21.50 | PSS | 0 | | 0.03 | | | | | | | | N/A |
| SU-1C-W293 | 21.56 | PFO | 25 | 0.02 | | | 0.02 | | | | | | II |
| SU-1X-W291 | 22.47 | PFO | 112 | 0.07 | | | 0.08 | | | | | | II |
| SU-1C-W292 | 22.54 | PFO | 34 | 0.05 | | | 0.02 | | | | | | II |
| SU-1X-W299 | 22.60 | PFO | 32 | 0.01 | | | 0.02 | | | | | | II |
| | 22.62 | PFO | 88 | 0.14 | | | 0.06 | | | | | | II |
| | 22.66 | PFO | 0 | 0.08 | | | | | | | | | N/A |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1X-W298 | 22.79 | PEM | 61 | | | 0.08 | | | | | | | II |
| SU-1X-W296 | 23.08 | PFO | 0 | 0.01 | | | 0.01 | | | | | | N/A |
| SU-1C-W294 | 23.29 | PEM | 0 | | | 0.01 | | | | | | | N/A |
| | 23.33 | PEM | 22 | | | 0.05 | | | | | | | II |
| SU-1J-W117 | 24.27 | PFO | 15 | 0.02 | | | 0.01 | | | | | | II |
| SU-1P-W287 | 24.28 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1B-W119 | 24.36 | PFO | 0 | 0.01 | | | | | | | | | N/A |
| SU-1B-W120 | 24.41 | PFO | 148 | 0.13 | | | 0.10 | | | | | | II |
| SU-1B-W121 | 24.43 | PFO | 2 | | | | 0.01 | | | | | | II |
| SU-1C-W171 | 24.82 | PSS, PFO | 414 | 0.25 | 0.22 | | 0.20 | | 0.03 | | | | II |
| SU-1C-W170 | 25.05 | PEM, PFO | 452 | 0.33 | | 0.42 | | | | | | | II |
| | 25.23 | PSS | 48 | | 0.08 | | 0.12 | | 0.01 | | | | II |
| **Pipeline Totals** | | | **8,910** | **2.83** | **1.56** | **9.07** | **1.73** | **0.00** | **0.30** | **0.00** | **0.00** | **0.00** | |
| **WETLANDS ASSOCIATED WITH PROPOSED PIPEYARDS** | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | |
| **Pipeyard Facilities Totals** | | | **0** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| **WETLANDS ASSOCIATED WITH ABOVEGROUND FACILITIES** | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | |
| **Aboveground Facilities Total** | | | **0** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | |
| **WETLANDS ASSOCIATED WITH ACCESS ROADS** | | | | | | | | | | | | | |
| SU-1D-W257 | TAR8 | PSS | 35 | | 0.02 | | | | | | | | Access Road |
| | TAR8 | PSS | 0 | | 0.01 | | | | | | | | |
| SU-1D-W257 | TAR8 | PFO | 0 | 0.01 | | | | | | | | | Access Road |
| SU-1X-W256 | TAR8 | PSS | 211 | | 0.09 | | | | | | | | Access Road |
| SU-1D-W328A | PAR10 | PEM | 0 | | | | | | | | | 0.01 | Access Road |
| SU-1B-W336 | PAR14 | PEM | 39 | | | | | | | | | 0.03 | Access Road |
| SU-1G-W311 | PAR14 | PFO | 50 | | | | | 0.03 | | | | | Access Road |
| SU-1C-W271 | PAR14 | PFO | 132 | | | | | 0.17 | | | | | Access Road |
| SU-1E-W075 | PAR15 | PFO | 60 | | | | | | | | | 0.04 | Access Road |

| Wetland ID[a] | Milepost | Wetland Class[b] | Crossing Length (feet)[c] | Wetland Impacts (acres) | | | | | | | | | Crossing Method[f] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Temporary[d] | | | Permanent[e] | | | | | | |
| | | | | PFO | PSS | PEM | PFO (Conv) | PFO (Fill) | PSS (Conv) | PSS (Fill) | PEM (Conv) | PEM (Fill) | |
| SU-1C-W170 | TAR1 | PEM, PFO | 142 | 0.01 | | 0.05 | | | | | | | Access Road |
| **Access Road Totals** | | | **669** | **0.02** | **0.12** | **0.05** | | **0.20** | | | | **0.08** | |
| **Pennsylvania Totals** | | | **9,579** | **2.85** | **1.68** | **9.12** | **1.73** | **0.20** | **0.30** | | | **0.08** | |

Conv = Wetland Conversion 1) PFO to PSS or PEM 2) PSS to PEM Fill = Permanent Wetland fill

a: Wetlands associated with MLVs included in the corresponding pipeline segment.

b: Wetland classification according to Cowardin et al. 1979: PEM = Palustrine Emergent Wetland; PSS = Palustrine Scrub-Shrub Wetland; PFO = Palustrine Forested Wetland.

c: 0.0 ft Crossing Length = wetland is not crossed by the pipeline but is within the workspace.

d: Temporary Wetland Impact Acreage = wetland areas impacted during construction will be allowed to revert back to their original cover type and will not be maintained during operation of the pipeline.

e: Permanent Wetland Impact Acreage = wetland that will be kept in a specific cover type during operation of the pipeline. Operation Acreage = 10-foot wide corridor permanently maintained in herbaceous vegetated cover through PSS wetlands, and 30-foot wide corridor permanently maintained through PFO wetlands where trees taller than 15 feet will be selectively cut and removed. The permanently maintained corridors represent a change in cover type from PFO to PSS and PEM or PSS to PEM; there is no operation impact on PEM wetlands, since there is no change in the pre- and post-construction vegetation cover type.

f: Crossing Methods I = Standard Crossing; II = Conventional Crossing; III = Push/Pull Crossing; IV = Conventional Bore; V = Horizontal Directional Drill; N/A = Wetland not crossed by pipeline

**Wetland Impact Summary of Surveyed and Remote Sensed Areas for Pennsylvania**

| Watershed (HUC 8) | Palustrine Forested (acres impacted) | | Palustrine Scrub-Shrub (acres affected) | | Palustrine Emergent (acres affected) | | Total (acres affected) | |
|---|---|---|---|---|---|---|---|---|
| | Temp | Perm | Temp | Perm | Temp | Perm | Temp | Perm |
| Upper Susquehanna-Surveyed | 2.74 | 1.86 | 1.27 | 0.23 | 5.69 | 0.08 | 9.70 | 2.17 |
| Upper Susquehanna-Tunkhannock - Surveyed | 0.11 | 0.07 | 0.41 | 0.07 | 3.43 | 0.00 | 3.95 | 0.14 |
| **Surveyed Sub-Total** | **2.85** | **1.93** | **1.68** | **0.3** | **9.12** | **0.08** | **13.65** | **2.31** |
| Upper Susquehanna - Remotely Sensed | 0.77 | 0.24 | 0.82 | 0.09 | 1.80 | 0.00 | 3.39 | 0.33 |
| Upper Susquehanna-Tunkhannock - Remotely Sensed | 0.03 | 0.02 | 0.00 | 0.00 | 0.23 | 0.00 | 0.25 | 0.02 |
| **Remotely Sensed Sub-Total[a]** | **0.80** | **0.26** | **0.82** | **0.09** | **2.03** | **0.00** | **3.64** | **0.35** |
| **Pennsylvania Total** | **3.65** | **2.19** | **2.5** | **0.39** | **11.15** | **0.08** | **17.29** | **2.66** |

a: Wetlands on non-accessible land parcels were assessed using remote sensing computer models. The remote sensing model is known to overestimate wetlands by approximately 30 percent. The use of this technology will allow Constitution to ensure that all potential impacts are being mitigated without entering the site. Wetland delineation and ground truthing of wetland boundaries will be performed once access to the property is acquired. Impact mitigation estimates will be updated and are expected to be lower than the remote sensed estimates.

Note: Columns may not sum exactly due to rounding of values in individual cells.
Note: No impacts to wetlands occur within construction yards.
Note: The impact numbers above include access road impacts as well as pipeline corridor impacts.
Source: Based on data from Gulf Interstate Engineering (GIE) 11/19/2013

## Waterbodies Associated with the Constitution Pipeline - Pennsylvania

| MP[a] | Feature ID | Waterbody Name[b] | Water Type[c] | PA CH 93 Designated Use[d] | PA CH 93 Existing Use[d] | Longitude (Decimal Degrees) | Latitude (Decimal Degrees) | TOB Crossing Width (feet) | Linear Footage within Perm ROW (feet)[e,f] | Linear Footage within Temp ROW (feet)[e,g] | Stream Impact in Permanent ROW (acres)[f] | Stream Impact in Temporary ROW (acres)[g] | Floodway[h] Width (feet) | Floodway[h] Impact in Permanent ROW (acres)[f] | Floodway[h] Impact in Temporary ROW (acres)[g] | Crossing Method[i] | Wild Trout Stream[j] | Approved Trout Water[j] | State Fishery Construction Window[k] | Site Specific Drawing Number | Alignment Sheet Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATERBODIES ASSOCIATED WITH PIPELINE | | | | | | | | | | | | | | | | | | | | | |
| [redacted] | | | | | | | | | | | | | | | | | | | | | |
| 0.21 | SU-1B-S211 | UNT to Hop Bottom Creek | I | CWF | N/A | 41° 47' 47.69881" N | 75° 49' 13.77481" | 2 | 55 | 25 | 0.010 | 0.010 | 100 | 0.13 | 0.13 | II | N/A | N/A | N/A | 26-09-70/SU-1M-S212-1-0 | 1 of 126 |
| [redacted] | | | | | | | | | | | | | | | | | | | | | |
| 2.36 | SU-1C-S172A | UNT to Martins Creek | I | CWF | N/A | 41° 48' 01.40039" N | 75° 46' 59.30040" | 3 | 60 | 25 | 0.010 | 0.012 | 100 | 0.25 | 0.06 | II | N/A | N/A | N/A | 26-09-70/SU-1C-S172A-1-4 | 3 of 126 |
| [redacted] | SU-1C-S172A | UNT to Martins Creek | I | CWF | N/A | 41° 48' 01.73879" N | 75° 46' 58.34282" | 0 | 85 | 0 | | | 100 | | | N/A | N/A | N/A | N/A | 26-09-70/SU-1C-S172A-1-4 | 3 of 126 |
| 2.39 | SU-1C-S172 | UNT to Martins Creek | P | CWF | N/A | 41° 48' 01.59841" N | 75° 46' 56.88840" | 7 | 70 | 25 | 0.013 | 0.016 | 100 | 0.17 | 0.07 | II | N/A | N/A | N/A | 26-09-70/SU-1C-S172A-1-4 | 3 of 126 |
| 2.99 | SU-1B-S228 | Martins Creek | P | CWF | N/A | 41° 47' 58.41240" N | 75° 46' 19.28640" | 28 | 50 | 0 | 0.035 | 0.000 | 100 | 0.18 | 0.08 | II | N/A | Approved Trout Water | N/A | 26-09-70/SU-1B-S228-1-2 | 3 of 126 |
| 3.04 | SU-1M-S229 | Road Ditch | E | CWF | N/A | 41° 47' 58.56360" N | 75° 46' 15.95999" | 7 | 50 | 25 | 0.008 | 0.004 | 100 | 0.12 | 0.12 | III | N/A | N/A | N/A | 26-09-70/SU-1M-S229-1-4 | 3 of 126 |
| 3.06 | SU-1B-S275 | UNT to Martins Creek | I | CWF | N/A | 41° 47' 58.66801" N | 75° 46' 14.56319" | 3 | 55 | 25 | 0.004 | 0.002 | 100 | 0.13 | 0.16 | II | N/A | N/A | N/A | 26-09-70/SU-1M-S229-1-4 | 3 of 126 |
| 3.08 | SU-1M-S275A | UNT to Martins Creek | I | CWF | N/A | 41° 47' 58.89120" N | 75° 46' 13.38600" | 1 | 55 | 70 | 0.004 | 0.005 | 100 | 0.21 | 0.17 | II | N/A | N/A | N/A | 26-09-70/SU-1M-S229-1-4 | 4 of 126 |
| [redacted] | SU-1M-S275A | UNT to Martins Creek | I | CWF | N/A | 41° 47' 58.83200" N | 75° 46' 12.59762" | 0 | | | | | 100 | | | N/A | N/A | N/A | N/A | 26-09-70/SU-1M-S229-1-4 | 4 of 126 |
| 3.26 | SU-1M-S276 | UNT to Martins Creek | I | CWF | N/A | 41° 47' 59.74079" N | 75° 46' 00.87599" | 6 | 70 | 40 | 0.010 | 0.005 | 100 | 0.42 | 0.34 | II | N/A | N/A | N/A | 26-09-70/SU-1M-S276-1-2 | 4 of 126 |
| 3.27 | SU-1M-S276 | UNT to Martins Creek | I | CWF | N/A | 41° 47' 59.74079" N | 75° 46' 00.87599" | 4 | 65 | 40 | | | 100 | | | II | N/A | N/A | N/A | 26-09-70/SU-1M-S276-1-2 | 4 of 126 |
| 3.31 | SU-1M-S276 | UNT to Martins Creek | I | CWF | N/A | 41° 48' 01.25279" N | 75° 45' 58.52880" | 3 | 50 | 0 | 0.004 | 0.000 | 100 | | | II | N/A | N/A | N/A | 26-09-70/SU-1M-S276-2-4 | 4 of 126 |
| 3.31 | SU-1M-S276A | Road Ditch | E | CWF | N/A | 41° 48' 01.43641" N | 75° 45' 58.56838" | 1 | 50 | 0 | 0.002 | 0.000 | 100 | 0.12 | 0.12 | III | N/A | N/A | N/A | 26-09-70/SU-1M-S276-2-4 | 4 of 126 |
| 5.50 | SU-1B-S136 | UNT to East Branch Martins Cr | P | CWF | N/A | 41° 49' 41.97359" N | 75° 45' 27.35281" | 6 | 70 | 50 | 0.010 | 0.010 | 100 | 0.14 | 0.05 | III | N/A | N/A | N/A | 26-09-70/SU-1B-S136-1-5 | 6 of 126 |
| 6.70 | SU-1F-S138 | UNT to Meylert Creek | I | HQ-CWF | N/A | 41° 50' 17.18521" N | 75° 44' 22.34042" | 0 | 0 | 15 | 0.001 | 0.000 | 100 | 0.06 | 0.06 | N/A | N/A | N/A | N/A | 26-09-70/SU-1F-S138-1-3 | 7 of 126 |
| 6.73 | SU-1B-S137 | Meylert Creek | P | HQ-CWF | N/A | 41° 50' 18.41279" N | 75° 44' 22.05958" | 11 | 50 | 25 | 0.089 | 0.034 | 100 | 0.20 | 0.07 | II | N/A | N/A | N/A | 26-09-70/SU-1F-S138-1-3 | 7 of 126 |
| 7.26 | SU-1F-S140 | UNT to Meylert Creek | E | HQ-CWF | N/A | 41° 50' 40.61400" N | 75° 44' 07.34898" | 0 | 20 | 0 | 0.001 | 0.000 | 100 | 0.11 | 0.04 | N/A | N/A | N/A | N/A | 26-09-70/SU-1F-S140-1-2 | 8 of 126 |
| 8.40 | SU-1B-S141 | UNT to Wellmans Creek | P | HQ-CWF | N/A | 41° 50' 54.26881" N | 75° 42' 53.48520" | 2 | 55 | 40 | 0.004 | 0.003 | 100 | 0.13 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S141-1-3 | 9 of 126 |
| 8.73 | SU-1F-S148 | UNT to Wellmans Creek | I | HQ-CWF | N/A | 41° 51' 06.35041" N | 75° 42' 37.27800" | 4 | 25 | 0 | 0.020 | 0.000 | 100 | 0.16 | 0.05 | II | N/A | N/A | N/A | 26-09-70/SU-1F-S148-1-4 | 9 of 126 |
| 8.78 | SU-1F-S142 | UNT to Wellmans Creek | I | HQ-CWF | N/A | 41° 51' 08.48879" N | 75° 42' 34.86960" | 15 | 55 | 25 | 0.020 | 0.010 | 100 | | | II | N/A | N/A | N/A | 26-09-70/SU-1F-S142-1-3 | 9 of 126 |
| 8.93 | SU-1B-S144 | Wellmans Creek | P | HQ-CWF | N/A | 41° 51' 12.34079" N | 75° 42' 25.79761" | 4 | 65 | 25 | 0.010 | 0.010 | 100 | 0.17 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S144-1-6 | 9 of 126 |
| 8.95 | SU-1B-S145 | UNT to Wellmans Creek | P | HQ-CWF | N/A | 41° 51' 12.76201" N | 75° 42' 24.46561" | 5 | 50 | 25 | 0.010 | 0.010 | 100 | 0.13 | 0.06 | II | N/A | N/A | N/A | 26-09-7D/SU-1B-S144-1-6 | 9 of 126 |
| [redacted] | | | | | | | | | | | | | | | | | | | | | |
| 9.94 | SU-1C-S029G | Road Ditch | E | HQ-CWF | N/A | 41° 51' 51.24600" N | 75° 41' 43.55880" | 3 | 50 | 25 | 0.001 | 0.000 | 100 | 0.12 | 0.12 | III | N/A | N/A | N/A | 26-09-70/SU-1C-S029G-1-2 | 10 of 126 |
| 9.99 | SU-1X-S231 | Salt Lick Creek | P | HQ-CWF | N/A | 41° 51' 53.61481" N | 75° 41' 41.87038" | 36 | 50 | 25 | 0.042 | 0.023 | 100 | 0.17 | 0.08 | II | N/A | Approved Trout Water | N/A | 26-09-70/SU-1X-S231-1-2 | 10 of 126 |
| 10.03 | SU-1X-S233 | UNT to Salt Lick Creek | I | HQ-CWF | N/A | 41° 51' 54.78119" N | 75° 41' 40.25038" | 0 | 0 | 35 | 0.000 | 0.002 | 100 | 0.11 | 0.11 | N/A | N/A | N/A | N/A | 26-09-70/SU-1X-S233-1-2 | 10 of 126 |
| 10.59 | SU-1D-S235 | Agricultural Ditch | E | HQ-CWF | N/A | 41° 52' 13.42559" N | 75° 41' 10.55401" | 3 | 50 | 75 | 0.004 | 0.005 | 100 | 0.12 | 0.18 | II | N/A | N/A | N/A | 26-09-70/SU-1D-S235-1-2 | 11 of 126 |
| 10.77 | SU-1D-S237 | UNT to Salt Lick Creek | I | HQ-CWF | N/A | 41° 52' 16.53961" N | 75° 40' 59.38678" | 3 | 55 | 25 | 0.010 | 0.010 | 100 | 0.15 | 0.06 | II | N/A | N/A | N/A | 26-09-70/SU-1D-S237-1-5 | 11 of 126 |
| 11.08 | SU-1B-S031 | UNT to East Lake Creek | I | HQ-CWF | N/A | 41° 52' 21.79561" N | 75° 40' 39.47881" | 59 | 50 | 25 | 0.066 | 0.035 | 100 | 0.19 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S031-1-1 | 11 of 126 |
| 11.31 | SU-1B-S033 | UNT to East Lake Creek | E | HQ-CWF | N/A | 41° 52' 26.10481" N | 75° 40' 27.60958" | 3 | 50 | 25 | 0.004 | 0.002 | 100 | 0.12 | 0.10 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S033-1-2 | 12 of 126 |
| 11.36 | SU-1B-S035 | UNT to East Lake Creek | E | HQ-CWF | N/A | 41° 52' 27.46921" N | 75° 40' 24.48479" | 2 | 50 | 25 | 0.002 | 0.001 | 100 | 0.12 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S035-1-4 | 12 of 126 |
| 11.41 | SU-1B-S036 | UNT to East Lake Creek | E | HQ-CWF | N/A | 41° 52' 29.29440" N | 75° 40' 22.08721" | 3 | 65 | 25 | 0.003 | 0.001 | 100 | 0.15 | 0.13 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S036-1-2 | 12 of 126 |
| 11.45 | SU-1B-S037 | UNT to East Lake Creek | E | HQ-CWF | N/A | 41° 52' 30.67682" N | 75° 40' 20.24401" | 2 | 50 | 25 | 0.002 | 0.001 | 100 | 0.12 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S036-1-2 | 12 of 126 |
| 11.48 | SU-1B-S038 | UNT to East Lake Creek | P | HQ-CWF | N/A | 41° 52' 31.78561" N | 75° 40' 18.85801" | 15 | 50 | 25 | 0.018 | 0.006 | 100 | 0.14 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S036-1-2 | 12 of 126 |
| 11.60 | SU-1E-S039 | UNT to East Lake Creek | P | HQ-CWF | N/A | 41° 52' 38.13599" N | 75° 40' 16.82038" | 15 | 50 | 25 | 0.020 | 0.030 | 100 | 0.14 | 0.09 | II | N/A | N/A | N/A | 26-09-70/SU-1E-S039-1-3 | 12 of 126 |
| 11.95 | SU-1E-S043A | UNT to East Lake Creek | I | HQ-CWF | N/A | 41° 52' 51.54240" N | 75° 40' 01.71840" | 2 | 50 | 25 | 0.004 | 0.002 | 100 | 0.12 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1E-S043A-1-2 | 12 of 126 |
| 12.84 | SU-1K-S254A | UNT to Salt Lick Creek | I | HQ-CWF | N/A | 41° 53' 22.16039" N | 75° 39' 15.65999" | 0 | 0 | 5 | 0.000 | 0.010 | 100 | 0.05 | 0.06 | N/A | N/A | N/A | N/A | 26-09-70/SU-1C-S253-1-6 | 13 of 126 |
| 12.85 | SU-1C-S253 | UNT to Salt Lick Creek | P | HQ-CWF | N/A | 41° 53' 22.87679" N | 75° 39' 15.03718" | 11 | 55 | 25 | 0.020 | 0.020 | 100 | 0.14 | 0.09 | II | N/A | N/A | N/A | 26-09-70/SU-1C-S253-1-6 | 13 of 126 |
| 14.41 | SU-1B-S134 | UNT to Lewis Creek | E | CWF | N/A | 41° 54' 09.00721" N | 75° 37' 53.61240" | 0 | 0 | 45 | 0.000 | 0.010 | 100 | 0.10 | 0.07 | N/A | N/A | N/A | N/A | 26-09-70/SU-1B-S134-1-3 | 15 of 126 |
| 15.13 | SU-1K-S064 | Road Ditch | I | CWF | N/A | 41° 54' 21.04559" N | 75° 37' 07.05001" | 2 | 50 | 25 | 0.010 | 0.010 | 100 | 0.12 | 0.14 | II | N/A | N/A | N/A | 26-09-70/SU-1K-S064-1-4 | 15 of 126 |
| 15.26 | SU-1G-S068 | UNT to Drinker Creek | E | CWF | N/A | 41° 54' 22.85998" N | 75° 36' 58.37399" | 5 | 50 | 20 | 0.010 | 0.010 | 100 | 0.15 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1G-S068-1-2 | 16 of 126 |
| 15.32 | SU-1K-S067 | UNT to Drinker Creek | P | CWF | N/A | 41° 54' 24.23879" N | 75° 36' 54.56519" | 8 | 0 | 0 | 0.000 | 0.000 | 100 | 0.14 | 0.00 | IV | N/A | N/A | N/A | 26-09-70/SU-1K-S067-1-3 | 16 of 126 |
| 15.45 | SU-1K-S072 | UNT to Drinker Creek | I | CWF | N/A | 41° 54' 26.98199" N | 75° 36' 45.87479" | 2 | 0 | 0 | 0.000 | 0.000 | 100 | 0.23 | 0.00 | IV | N/A | N/A | N/A | 26-09-70/SU-1K-S072-1-4 | 16 of 126 |
| 15.48 | SU-1K-S069 | UNT to Drinker Creek | P | CWF | N/A | 41° 54' 27.25921" N | 75° 36' 44.55000" | 25 | 0 | 0 | 0.000 | 0.000 | 100 | 0.16 | 0.00 | IV | N/A | N/A | N/A | 26-09-70/SU-1K-S072-1-4 | 16 of 126 |
| 15.50 | SU-1K-S069A | UNT to Drinker Creek | P | CWF | N/A | 41° 54' 27.73439" N | 75° 36' 43.57799" | 0 | 0 | 0 | 0.000 | 0.000 | 100 | 0.18 | 0.00 | N/A | N/A | N/A | N/A | 26-09-70/SU-1K-S072-1-4 | 16 of 126 |
| 15.63 | SU-1G-S074 | UNT to Drinker Creek | P | CWF | N/A | 41° 54' 30.28319" N | 75° 36' 34.42320" | 3 | 0 | 0 | 0.000 | 0.000 | 100 | 0.12 | 0.00 | IV | N/A | N/A | N/A | 26-09-70/SU-1G-S074-1-3 | 16 of 126 |
| 15.82 | SU-1K-S076 | UNT to Drinker Creek | P | CWF | N/A | 41° 54' 35.58239" N | 75° 36' 23.87518" | 14 | 50 | 25 | 0.020 | 0.010 | 100 | 0.14 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1K-S076-1-2 | 16 of 126 |
| [redacted] | | | | | | | | | | | | | | | | | | | | | |
| 23.75 | SU-1Q-S200 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 58' 41.55961" N | 75° 32' 34.23842" | 3 | 50 | 25 | 0.010 | 0.010 | 100 | 0.12 | 0.10 | II | N/A | N/A | N/A | 26-09-70/SU-1Q-S200-1-2 | 24 of 126 |
| 23.81 | SU-1J-S202 | UNT to Little Roaring Brook | E | CWF | N/A | 41° 58' 44.26680" N | 75° 32' 34.92600" | 2 | 65 | 20 | 0.010 | 0.010 | 100 | 0.14 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1J-S202-1-3 | 24 of 126 |
| 23.87 | SU-1B-S277 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 58' 47.23320" N | 75° 32' 34.61282" | 6 | 65 | 25 | 0.010 | 0.010 | 100 | 0.15 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S277-1-3 | 24 of 126 |

## Waterbodies Associated with the Constitution Pipeline - Pennsylvania

| MP[a] | Feature ID | Waterbody Name[b] | Water Type[c] | PA CH 93 Designated Use[d] | PA CH 93 Existing Use[d] | Longitude (Decimal Degrees) | Latitude (Decimal Degrees) | TOB Crossing Width (feet) | Linear Footage within Perm ROW (feet)[e,f] | Linear Footage within Temp ROW (feet)[e,g] | Stream Impact in Permanent ROW (acres)[f] | Stream Impact in Temporary ROW (acres)[g] | Floodway[h] Width (feet) | Floodway[h] Impact in Permanent ROW (acres)[f] | Floodway[h] Impact in Temporary ROW (acres)[g] | Crossing Method[i] | Wild Trout Stream[j] | Approved Trout Water[j] | State Fishery Construction Window[k] | Site Specific Drawing Number | Alignment Sheet Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24.28 | SU-1B-S109 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 08.63881" N | 75° 32' 33.02160" | 2 | 50 | 25 | 0.010 | 0.010 | 100 | 0.12 | 0.08 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S109-1-5 | 25 of 126 |
| 24.29 | SU-1S-S262 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 09.15001" N | 75° 32' 33.04680" | 1 | 65 | 25 | 0.010 | 0.010 | 100 | 0.15 | 0.10 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S109-1-5 | 25 of 126 |
| 24.31 | SU-1S-S261 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 10.19761" N | 75° 32' 32.98920" | 1 | 50 | 25 | 0.010 | 0.010 | 100 | 0.12 | 0.12 | II | N/A | N/A | N/A | 26-09-70/SU-1B-S109-1-5 | 25 of 126 |
| 24.40 | SU-1J-S112A | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 14.87401" N | 75° 32' 32.49600" | 0 | 0 | 5 | 0.000 | 0.010 | 100 | 0.04 | 0.07 | N/A | N/A | N/A | N/A | 26-09-70/SU-1J-S112A-1-4 | 25 of 126 |
| 24.42 | SU-1B-S110 | UNT to Little Roaring Brook | P | CWF | N/A | 41° 59' 16.18080" N | 75° 32' 32.96790" | 18 | 60 | 35 | 0.020 | 0.010 | 100 | 0.16 | 0.11 | II | N/A | N/A | N/A | 26-09-70/SU-1J-S112A-1-4 | 25 of 126 |
| 24.43 | SU-1B-S115 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 16.56960" N | 75° 32' 33.28520" | 0 | 30 | 0 | 0.010 | 0.000 | 100 | 0.14 | 0.04 | N/A | N/A | N/A | N/A | 26-09-70/SU-1J-S112A-1-4 | 25 of 126 |
| 25.23 | SU-1C-S163 | UNT to Cascade Creek | P | CWF | N/A | 41° 59' 56.13000" N | 75° 32' 29.06161" | 1 | 50 | 25 | 0.010 | 0.010 | 100 | 0.12 | 0.09 | II | N/A | N/A | N/A | 26-09-70/SU-1C-S163-1-3 | 26 of 126 |
| | | | | | | | | Permanent ROW Totals | 3,790 | | 1.111 | | | 11.17 | | | | | | | |
| | | | | | | | | Temporary ROW Totals | | 1,870 | | 0.729 | | | 7.79 | | | | | | |
| WATERBODIES ASSOCIATED WITH ACCESS ROADS | | | | | | | | | | | | | | | | | | | | | |
| 10.10 | SU-1D-S232 TAR8 | UNT to Salt Lick Creek | I | HQ-CWF | N/A | 41° 50' 36.37661" N | 75° 47' 29.06159" | 3 | 0 | 25 | 0.000 | 0.002 | 100 | 0.00 | 0.05 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 14.09 | SU-1S-S371 PAR12 | Stormwater Basin | N/A (waterbody) | HQ-CWF | N/A | 41° 59' 36.54321" N | 75° 38' 55.15000" | 0 | 0 | 0 | 0.000 | 0.000 | 100 | 0.18 | 0.00 | [illegible] | N/A | N/A | N/A | [illegible] | [illegible] |
| 17.80 | SU-1E-S047 PAR15 | UNT to Canawacta Creek | E | CWF | N/A | 41° 55' 48.20170" N | 75° 34' 44.11200" | 6 | 30 | 0 | 0.000 | 0.000 | 100 | 0.12 | 0.00 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 17.80 | SU-1E-S048 PAR15 | UNT to Canawacta Creek | I | CWF | N/A | 41° 55' 48.16041" N | 75° 34' 44.10480" | 18 | 60 | 0 | 0.000 | 0.000 | 100 | 0.12 | 0.00 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 17.80 | SU-1E-S049 PAR15 | UNT to Canawacta Creek | I | CWF | N/A | 41° 55' 48.95720" N | 75° 34' 43.78670" | 0 | 60 | 0 | 0.000 | 0.000 | 100 | 0.12 | 0.00 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 23.36 | SU-1H-S380 PAR13 | UNT to Little Roaring Brook | E | CWF | N/A | 41° 58' 11.27352" N | 75° 32' 38.60680" | 0 | 0 | 0 | 0.000 | 0.000 | 100 | 0.21 | 0.00 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 23.36 | SU-1H-S384 PAR13 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 58' 10.98170" N | 75° 32' 38.58600" | 0 | 0 | 0 | 0.000 | 0.000 | 100 | 0.14 | 0.00 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| 25.07 | SU-1H-S184 TAR1 | UNT to Little Roaring Brook | I | CWF | N/A | 41° 59' 42.28380" N | 75° 32' 37.81780" | 0 | 0 | 45 | 0.000 | 0.000 | 100 | 0.00 | 0.15 | Wetland or Waterbody | N/A | N/A | N/A | [illegible] | [illegible] |
| | | | | | | | | Permanent Access Road Totals | 155 | | 0.011 | | | 0.86 | | | | | | | |
| | | | | | | | | Temporary Access Road Totals | | 60 | | 0.006 | | | 0.18 | | | | | | |
| | | | | | | | | Project Totals | 3,945 | 1,930 | 1.122 | 0.735 | | 12.03 | 7.95 | | | | | | |

[a] MP correlates to where stream crosses the proposed pipeline centerline.
[b] UNT = Unnamed Tributary
[c] P=Perennial, I=Intermittent, E=Ephemeral
[d] Pennsylvania 25 Chapter 93 Water Quality Standards. WWF - Warm Water Fishery; HQ-WWF - High Quality-Warm Water Fishery; TSF - Trout Stocked Fishery. Those waterbodies designated as TSF have an in-stream construction restriction from March 1-June 15.
[e] Length listed includes the length of the waterbody, measured along the stream centerline, within the Project (temp and perm ROW).
[f] Permanent impacts represent the acreage of each feature within the 50ft permanent ROW that will be kept for the life of the pipeline.
[g] Temporary impacts represent the acreage of each feature within the temporary ROW, and/or the area of temporary disturbance along access roads.
[h] Floodway consists of either mapped FEMA floodway or if not mapped PADEP assumed 50ft floodway extending from top-of-bank.
[i] I = Wet Open Cut Method; II = Dry Crossing Method, including Flume, Dam and Pump, Cofferdam, or Dry Open Cut for waterbodies that are dry at the time of crossing; Method III = Conventional Bore; IV = HDD, V= Direct Pipe Method. Intermittent waterbodies containing discernible flow at the time of construction will be crossed using a dry crossing method, unless otherwise authorized by applicable regulatory agencies.
[j] TS = Trout stocked; PA Fishery Classifications: Approved trout waters (PFBC 2013 and PFBC 2012a); Natural Trout Reproduction (PFBC 2012b,c), Class A Wild Trout Water, Bureau of Fisheries website.
[k] Construction Windows for fisheries are a based on PFBC state fishery classification restrictions. Potential timing restrictions reflect dates during which construction activities may occur and are subject to PFBC and PADEP review. Constitution will adhere to the PADEP and PFBC fishery timing restriction during construction; state fishery timing restrictions are designed by the state to protect the resources during the time period that the state has determined is critical.
New feature delineated after April 8, 2013

Features No Longer Impacted by Project

| August 2013 MP[a] | Feature ID | Waterbody Name[b] | Water Type[c] | PA CH 93 Designated Use[d] | PA CH 93 Existing Use[d] | Longitude (Decimal Degrees) | Latitude (Decimal Degrees) | TOB Crossing Width (feet) | Linear Footage within Perm ROW (feet)[e,f] | Linear Footage within Temp ROW (feet)[e,g] | Stream Impact in Permanent ROW (acres)[f] | Stream Impact in Temporary ROW (acres)[g] | Floodway[h] Width (feet) | Floodway[h] Impact in Permanent ROW (acres)[f] | Floodway[h] Impact in Temporary ROW (acres)[g] | Crossing Method[i] | Wild Trout Stream[j] | Approved Trout Water[j] | State Fishery Construction Window[k] | August 2013 Site Specific Drawing Number | August 2013 Alignment Sheet Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.20 | SU-1B-S211A | UNT to Hop Bottom Creek | E | CWF | N/A | 75° 49' 14.315" W | 41° 47' 50.374" N | 2 | 50 | 25 | 0.005 | 0.002 | 100 | 0.11 | 0.12 | II | N/A | N/A | N/A | 26-09-70/0.19-1-0 | 1 of 122 |
| 1.68 | SU-1B-S224 | UNT to Hop Bottom Creek | I | CWF | N/A | 75° 47' 38.321" W | 41° 48' 8.399" N | 0 | N/A | 30 | 0.000 | 0.002 | 100 | 0.01 | 0.14 | N/A | N/A | N/A | N/A | 26-09-70/1.67-1-0 | 2 of 122 |
| 8.98 | SU-1B-S148 | UNT to Wellmans Creek | E | HQ-CWF | N/A | 75° 42' 18.269" W | 41° 51' 19.296" N | 4 | 15 | N/A | 0.001 | 0.000 | 100 | 0.14 | 0.05 | II | N/A | N/A | N/A | 26-09-70/9.00-1-0 | 9 of 122 |

**Remote-Sensed Waterbodies Crossed by the Constitution Pipeline – Identified by HUC 8 Watershed - Pennsylvania**

| Waterbody ID[a] | Waterbody Name[b] | Milepost[c] | Alignment Sheet Number | Latitude | Longitude | Town / County | Quadrangle | Type[d] | Crossing Length (feet)[e] | Approximate Temporary Stream Disturbance (acres)[f] | FERC Class[g] | Water Quality Standard[h] | Fishery Classification[i] | State Fishery Construction Window[j] | Crossing Method[k] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **HUC 8 Watershed - Upper Susquehanna (02050101)** | | | | | | | | | | | | | | | |
| SU-XX-S7.76 | Meylert Creek | 7.89 | 8 of 126 | 41.84776 | -75.7245 | New Milford/ Susquehanna | Harford | P | 6 | 0.01 | MI | HQ-CWF | N/A | N/A | II |
| SU-XX-S16.87 | Drinker Creek | 16.87 | 17 of 126 | 41.92048 | -75.5933 | Oakland/ Susquehanna | Susquehanna | P | 24 | 0.04 | I | CWF | N/A | N/A | II |
| | | | | | | | | **Totals** | **30** | **0.05** | | | | | |

N/A = Not Applicable

a: Waterbody features with "XX" indicate a portion of the feature is located on a no access parcel. The feature has been identified through field delineation where access has been granted, and as an NHD waterbody where access has not been granted.

b: UNT: Unnamed Tributary. UNT name was identified based on review of USGS topographical mapping.

c: MP provided for access roads indicate the point at which the access road meets the proposed pipeline.

d: P = perennial; I = intermittent; POW = open water; E = Ephemeral.

e: 0.0 = waterbody is not crossed but is in workspace. For minor waterbodies less than 3 feet in width delineated in the survey area and shown as a single line feature on the Project alignment sheets, an assumed 3 foot width has been used for this analysis. For USGS NHD waterbody data used to identify waterbodies on no-access parcels and shown as a single line feature on the Project alignment sheets, an assumed 3 foot width has been used for this analysis. Where tree canopy cover allowed for suitable analysis, scaled aerial photography was used to estimate crossing length for these NHD stream features.

f: Approximate temporary stream disturbance acreage calculated by multiplying estimated crossing length by 75-foot wide proposed workspace for waterbody crossings.

g: MI = Minor (<10 feet); I = Intermediate (>10 - <100 feet); MA = Major (>100 feet).

h: PA Water Quality Classification Definition: CWF = Cold Water Fishery; HQ = High Quality (Chapter 93 Pennsylvania Code).
Water quality classifications were identified through a desktop review of available GIS data layers. A waterbody that was not assigned a water quality classification on the GIS data layer was given the same classification as the waterbody it drains into. All water quality classifications shown are designated uses, no existing uses are present in the Project area based on review of available GIS data layers.

i: N/A = Not Applicable, no state fishery classification; TS = Trout stocked; PA Fishery Classifications: Approved trout waters (PFBC 2013 and PFBC 2012a); Natural Trout Reproduction (PFBC 2012b,c).

j: Construction Windows for fisheries are a based on PFBC state fishery classification restrictions. Streams with no construction timing restrictions, shown as "N/A" on the table, do not have timing restrictions for construction based on PFBC regulations and consultations. Potential timing restrictions reflect dates during which construction activities may occur and are subject to PFBC and PADEP review. Constitution will adhere to the PADEP and PFBC fishery timing restriction during construction; state fishery timing restrictions are designed by the state to protect the resources during the time period that the state has determined is critical.

k: I = Wet Open Cut Method; II = Dry Crossing Method, including Flume or Dam and Pump, Cofferdam, or Dry Open Cut for waterbodies that are dry at the time of crossing; Method III = Conventional Bore; IV = HDD, V = Direct Pipe Method. Intermittent waterbodies containing discernible flow at the time of construction will be crossed using a dry crossing method, unless otherwise authorized by applicable regulatory agencies.