

**Aquatic Resources Impact Table**

**Wetland Resources**

**Luzerne County**

Identification			Location					Wetland Temporary Impacts			Wetland Permanent impacts			Crossing Information		
Wetland ID and Crossing Number <sup>1</sup>	State Wetland Classification <sup>2</sup>	Cowardin Classification <sup>3</sup>	Milepost <sup>4</sup>	Latitude	Longitude	Municipality <sup>5</sup>	Quadrangle	Temporary Crossing Length (feet) <sup>6</sup>	Temporary Crossing Width (feet) <sup>7</sup>	Temporary Impact Area (acres) <sup>8</sup>	Permanent Crossing Length (feet) <sup>9</sup>	Permanent Crossing Width (feet) <sup>10</sup>	Permanent Impact Area (acres) <sup>11</sup>	Primary Pipeline Crossing Method <sup>12</sup>	Secondary Pipeline Crossing Method <sup>12</sup>	Temporary Equipment Crossing <sup>12</sup>
<b>PennEast Mainline Pipeline</b>																
050715_JC_1001_PSS	Exceptional (iii)	PSS1	0R1	41.34651213	-75.94495768	Dallas	Kingston	573	45	0.517	560	30	0.373	CL - Open Cut	-	Matted
050715_JC_1001b_PEM	Exceptional (iii)	PEM1	0.1	41.3459113	-75.94387815	Dallas	Kingston	5	6	0.001	-	-	-	N/A - Workspace	-	Matted
050715_JC_1001a_PEM	Exceptional (iii)	PEM1	0.1	41.34617205	-75.94439098	Dallas	Kingston	77	15	0.021	29	8	0.002	N/A - Workspace	-	Matted
032818_WA_001_PFO	Exceptional (iii)	PFO4	1.4	41.34159844	-75.9224387	Kingston	Kingston	86	45	0.059	42	30	0.030	CL - Open Cut	-	Matted
050416_DB_1001_PFO	Other	PFO1	2.1	41.33779767	-75.91067309	Kingston	Kingston	62	45	0.055	49	30	0.034	CL - Open Cut	-	Matted
011815_JC_002_PFO	Exceptional (iii)	PFO1	3.1	41.32587978	-75.89950269	Kingston	Kingston	246	30	0.148	148	29	0.093	CL - Open Cut	-	Matted
092314_GO_001_PSS	Other	PSS1	6	41.30818954	-75.85397177	West Wyoming	Pittston	19	15	0.005	8	23	0.008	CL - Open Cut	-	Matted
110915_WA_003_PEM	Other	PEM1	6.6R2	41.30429381	-75.84428367	Wyoming	Pittston	60	10	0.010	2	1	0.001	N/A - Workspace	-	Matted
072219_MU_1000_PEM - 1	Other	PEM1	12.1R3	41.256207	-75.782337	Plains	Pittston	299	12	0.018	274	12	0.014	CL - Open Cut	-	Matted
072219_MU_1000_PEM - 2	Other	PEM1	12.1R3	41.255463	-75.78177	Plains	Pittston	103	11	0.023	97	14	0.022	CL - Open Cut	-	Matted
072219_MU_1000_PEM - 3	Other	PEM1	12.1R3	41.255126	-75.781507	Plains	Pittston	108	10	0.066	66	15	0.052	CL - Open Cut	-	Matted
072219_MU_1001_PFO	Exceptional (iii)	PFO1	12.2R3	41.254714	-75.780757	Plains	Pittston	69	29	0.034	-	-	-	N/A - Workspace	-	Matted
072219_MU_1002_PEM	Other	PEM1	12.2R3	41.254615	-75.781	Plains	Pittston	-	-	-	72	16	0.020	CL - Open Cut	-	Matted
060618_WA_002_PEM	Other	PEM1	13.2	41.24868216	-75.77094744	Bear Creek	Wilkes-Barre East	378	29	0.165	20	23	0.028	CL - Open Cut	-	Matted
121814_JC_001_PEM	Other	PEM1	13.7	41.24278998	-75.76569688	Bear Creek	Wilkes-Barre East	41	24	0.015	-	-	-	N/A - Workspace	-	Matted
111014_JC_002_PFO	Exceptional (iii)	PFO1	14.1	41.23880367	-75.76069794	Bear Creek	Wilkes-Barre East	95	30	0.042	37	5	0.002	N/A - Workspace	-	Matted
042417_GM_1001_PFO	Exceptional (iii)	PFO1	14.7	41.23220537	-75.75255889	Bear Creek	Wilkes-Barre East	39	46	0.025	31	30	0.018	CL - Open Cut	-	Matted
043015_JC_1001_PFO	Exceptional (iii)	PFO1	15	41.22965521	-75.74936543	Bear Creek	Pleasant View Summit	96	30	0.029	34	30	0.027	CL - Open Cut	-	Matted
043015_JC_1001_PEM - 1	Exceptional (iii)	PEM1	15	41.22980041	-75.74968776	Bear Creek	Pleasant View Summit	11	3	0.001	-	-	-	N/A - Workspace	-	Matted
043015_JC_1001_PEM - 2	Exceptional (iii)	PEM1	15	41.22963009	-75.7494735	Bear Creek	Pleasant View Summit	92	7	0.008	-	-	-	N/A - Workspace	-	Matted
112114_JC_003B_PFO - 1	Other	PFO1	16	41.21877212	-75.7358315	Bear Creek	Pleasant View Summit	646	45	0.616	646	30	0.442	CL - Open Cut	-	Matted

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112114_JC_003B_PFO - 2	Other	PFO1	16.1	41.21736637	-75.73387003	Bear Creek	Pleasant View Summit	14	19	0.003	-	-	-	N/A - Workspace	-	Matted
112114_JC_003B_PFO - 3	Other	PFO1	16.2	41.21730582	-75.73378595	Bear Creek	Pleasant View Summit	27	12	0.004	-	-	-	N/A - Workspace	-	Matted
112114_JC_003B_PSS - 1	Other	PSS1	16.2	41.21736107	-75.73358547	Bear Creek	Pleasant View Summit	31	5	0.003	27	28	0.009	N/A - Workspace	-	Matted
112114_JC_003A_PSS - 1	Other	PSS1	16.2	41.21722685	-75.73337083	Bear Creek	Pleasant View Summit	160	45	0.161	150	30	0.103	CL - Open Cut	-	Matted
112114_JC_002_PSS	Other	PSS1	16.4	41.21545517	-75.7305689	Bear Creek	Pleasant View Summit	124	45	0.100	71	30	0.048	CL - Open Cut	-	Matted
112114_JC_002_PEM	Other	PEM1	16.4	41.21537282	-75.73033393	Bear Creek	Pleasant View Summit	38	5	0.002	-	-	-	N/A - Workspace	-	Matted
112014_JC_002_PFO	Other	PFO4	16.8	41.21121437	-75.72383138	Bear Creek	Pleasant View Summit	218	45	0.179	253	30	0.154	CL - Open Cut	-	Matted
112014_JC_002_PEM	Other	PEM1	16.8	41.21096052	-75.72333859	Bear Creek	Pleasant View Summit	306	5	0.035	278	10	0.023	N/A - Workspace	-	Matted
112014_JC_001_PFO	Exceptional (iii, iv)	PFO1	17.7	41.20282832	-75.71131953	Bear Creek	Pleasant View Summit	329	45	0.293	329	30	0.227	CL - Open Cut	-	Matted
112014_JC_001_PEM	Exceptional (iii)	PEM1	17.8	41.20284889	-75.7112549	Bear Creek	Pleasant View Summit	13	2	0.001	3	1	0.001	N/A - Workspace	-	Matted
121614_JC_001_PFO - 1	Exceptional (iii)	PFO4	19.6	41.1795127	-75.69659336	Bear Creek	Pleasant View Summit	56	45	0.038	40	30	0.028	CL - Open Cut	-	Matted
121614_JC_001_PEM	Exceptional (iii)	PEM1	19.7	41.1781217	-75.69674297	Bear Creek	Pleasant View Summit	34	4	0.001	-	-	-	N/A - Workspace	-	Matted
121614_JC_001_PFO - 2	Exceptional (iii)	PFO4	19.7	41.17867151	-75.69655517	Bear Creek	Pleasant View Summit	228	45	0.163	170	30	0.116	CL - Open Cut	-	Matted
102115_WA_003_PFO	Other	PFO1	22.7	41.1356828	-75.68932962	Bear Creek	Pleasant View Summit	29	30	0.016	27	8	0.003	N/A - Workspace	-	Matted
<b>Access Roads</b>																
010716_GM_1002_PEM	Exceptional (iii)	PEM1	OR1	41.34906314	-75.94799597	Dallas	Kingston	257	10	0.056	-	-	-	-	-	Matted
053117_MB_1001_PSS	Exceptional (iii)	PSS1	OR1	41.34926466	-75.94805086	Dallas	Kingston	151	8	0.023	-	-	-	-	-	Matted
053117_MB_1001_PEM	Exceptional (iii)	PEM1	OR1	41.34937205	-75.9481365	Dallas	Kingston	143	8	0.020	-	-	-	-	-	Matted
010716_GM_1001_PEM	Exceptional (iii)	PEM1	OR1	41.34769569	-75.94720987	Dallas	Kingston	153	5	0.013	-	-	-	-	-	Matted
010716_GM_1001_PSS	Exceptional (iii)	PSS1	OR1	41.34761743	-75.94703103	Dallas	Kingston	170	6	0.010	-	-	-	-	-	Matted
081215_MK_019_PEM	Other	PEM1	13.1	41.24814683	-75.77220757	Bear Creek	Wilkes-Barre East	124	20	0.057	-	-	-	-	-	Matted
121814_JC_002_PEM	Exceptional (iii)	PEM1	13.3	41.24790468	-75.76936229	Bear Creek	Wilkes-Barre East	19	8	0.002	-	-	-	-	-	Matted
081215_MK_020_PEM	Exceptional (iii)	PEM1	13.3	41.24830145	-75.7688731	Bear Creek	Wilkes-Barre East	8	12	0.002	-	-	-	-	-	Matted
081215_MK_021_PEM	Other	PEM1	13.3	41.24939522	-75.76741323	Bear Creek	Pittston	233	16	0.054	-	-	-	-	-	Matted
081215_MK_022_PEM	Other	PEM1	13.2	41.25162709	-75.7660882	Bear Creek	Pittston	43	9	0.005	-	-	-	-	-	Matted

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042417_GM_1002_PSS	Other	PSS1	15.9	41.2204329	-75.73691772	Bear Creek	Pleasant View Summit	262	30	0.179	-	-	-	-	-	Matted
042417_GM_1002_PEM	Other	PEM1	15.9	41.22044569	-75.73699896	Bear Creek	Pleasant View Summit	38	10	0.007	-	-	-	-	-	Matted
112114_JC_003A_PSS - 2	Other	PSS1	16.2	41.21776307	-75.73303961	Bear Creek	Pleasant View Summit	121	30	0.073	-	-	-	-	-	Matted
112114_JC_003B_PSS - 2	Other	PSS1	16.1	41.21820661	-75.73389014	Bear Creek	Pleasant View Summit	21	20	0.009	-	-	-	-	-	Matted
112114_JC_003B_PSS - 3	Other	PSS1	16.1	41.21788635	-75.73347183	Bear Creek	Pleasant View Summit	24	20	0.016	-	-	-	-	-	Matted
112114_JC_002A_PSS - 1	Other	PSS1	16.4	41.21573666	-75.72972883	Bear Creek	Pleasant View Summit	149	30	0.103	-	-	-	-	-	Matted
112114_JC_002A_PSS - 2	Other	PSS1	16.4	41.21542861	-75.72922528	Bear Creek	Pleasant View Summit	49	16	0.012	-	-	-	-	-	Matted
112014_JC_002_PSS	Other	PSS1	16.8	41.21153235	-75.723194	Bear Creek	Pleasant View Summit	209	30	0.141	-	-	-	-	-	Matted
112014_JC_001_PSS	Exceptional (iii)	PSS1	17.7	41.20324157	-75.71065474	Bear Creek	Pleasant View Summit	365	30	0.259	-	-	-	-	-	Matted
042517_GM_1001_PEM	Exceptional (iii)	PEM1	22.5	41.13858326	-75.6859931	Bear Creek	Pleasant View Summit	25	30	0.019	-	-	-	-	-	Matted
042517_GM_1002_PEM	Exceptional (iii)	PEM1	22.6	41.13796186	-75.68579659	Bear Creek	Pleasant View Summit	16	10	0.002	-	-	-	-	-	Matted
<b>TOTAL IMPACTS</b>								<b>7,331</b>	<b>1,222</b>	<b>3.919</b>	<b>3,463</b>	<b>553</b>	<b>1.878</b>			

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Notes:

- In instances where a wetland is crossed by the proposed pipeline or workspace multiple times, crossing numbers (e.g. "-1", "-2") have been added to the Wetland ID.
- Resource Value Definitions: Pennsylvania Exceptional Value Wetland as defined by PA Code §105.17 (relating to special criteria for projects affecting important wetlands). Criteria are:
  - Serves as habitat for fauna or flora listed as "threatened" or "endangered"
  - Is hydrologically connected to or located within a 1/2-mile from habitat for fauna or flora listed as "threatened" or "endangered" and wetland dependent;
  - Located in or along the floodplain of the reach or tributaries of a wild trout stream or waters listed as exceptional value;
  - Located along an existing public or private drinking water supply.
- Wetland Cover Type based on Cowardin, 1979  
 Key: PEM1 = palustrine emergent, persistent; PEM2 = palustrine emergent, non-persistent; PFO1 = palustrine forested, broad-leaved deciduous; PFO4 = palustrine forested, needle-leaved evergreen; PSS1 = palustrine scrub-shrub, broad-leaved deciduous; PSS3 = palustrine scrub-shrub, broad-leaved evergreen.
- 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.
- 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).
- 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 wetland within the temporary workspace.
- Temporary crossing widths are measured within the temporary workspace perpendicular to the pipeline or access road centerline. A "-" denotes there are no impacts to the wetland within the temporary workspace.
- 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 wetland.
- Permanent crossing lengths are measured along the pipeline centerline, as applicable. In instance where the pipeline does not cross a wetland, the permanent crossing length was measured along the edge of the permanent ROW or permanent aboveground facility. A "-" denotes there are no impacts to the wetland within the permanent ROW.
- Permanent crossing widths are the width of the permanent workspace, as applicable. In instances where the full permanent workspace does not cross a wetland the permanent crossing width was measured at the widest point of the wetland that intersected the permanent workspace.
- Permanent impact acres are measured within the permanent ROW or within an aboveground facility footprint. 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.
- Crossing Type Key for Wetlands:
  - CL-Bore = Pipeline centerline crosses under wetland. Construction method is bore.
  - CL-HDD = Pipeline centerline crosses under wetland. Construction method is HDD.
  - CL-Open Cut = Pipeline centerline impacts wetland. Construction method is open cut.
  - Matted = Wetland will be matted for temporary equipment crossing.
  - N/A = Not affected by pipeline construction.
  - N/A-Workspace = Pipeline trench does not impact wetland.
  - "-" = No alternative construction method is proposed.