

Aquatic Resources Impact Table
Riverine Resources
Carbon Riverine

Identification					Location					Stream Temporary Impacts		Stream Permanent Impacts		Floodway Temporary Impacts		Floodway Permanent Impacts		Crossing Information			
Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temporary Equipment Crossing
PennEast Mainline																					
110415_GM_1001_I_MI	UNT to Lime Hollow	HQ-CWF, MF	III	-	24.5	41.111271	-75.675842	Kidder Twp	Hickory Run	-	-	-	-	86	0.03	14	0.00	N/A	N/A	N/A	N/A - Workspace
102114_JC_1003_E_MI	UNT to Black Creek	HQ-CWF, MF	III	-	26.5	41.085393	-75.661818	Kidder Twp	Hickory Run	-	-	-	-	95	0.04	54	0.01	N/A	N/A	N/A	N/A - Workspace
102114_JC_1001_P_MI	UNT to Black Creek	HQ-CWF, MF	III	-	26.6	41.083979	-75.661245	Kidder Twp	Hickory Run	10	0.00	7	0.01	129	0.07	129	0.13	DPX	FX	CD	Mat Bridge or equivalent
042415_JC_1006_E_MI - 1	UNT to Hawk Run	HQ-CWF, MF	I, III	-	30.4R2	41.041447	-75.626875	Kidder Twp	Hickory Run	179	0.01	-	-	978	0.40	879	0.59	N/A	N/A	N/A	Mat Bridge or equivalent
042415_JC_1006_E_MI - 2	UNT to Hawk Run	HQ-CWF, MF	I, III	-	30.5R2	41.040321	-75.626670	Kidder Twp	Hickory Run	255	0.01	99	0.01	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
042415_JC_1004_P_MI	UNT to Laurel Run	HQ-CWF, MF	III	-	31.2R2	41.030532	-75.624535	Kidder Twp	Blakeslee	45	0.04	17	0.01	175	0.09	39	0.02	DPX	FX	CD	Mat Bridge or equivalent
042415_JC_1002_P_IN - 1	UNT to Laurel Run	HQ-CWF, MF	III	-	31.2R2	41.030393	-75.624569	Kidder Twp	Blakeslee	130	0.01	-	0.01	292	0.16	290	0.17	N/A	N/A	N/A	Mat Bridge or equivalent
042415_JC_1002_P_IN - 2	UNT to Laurel Run	HQ-CWF, MF	III	-	31.2R2	41.029996	-75.624423	Kidder Twp	Blakeslee	130	0.02	17	0.01	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
042415_JC_1005_D_MI	UNT to Laurel Run	HQ-CWF, MF	III	-	31.2R2	41.030333	-75.624340	Kidder Twp	Blakeslee	5	0.00	5	-	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
042415_JC_1003_I_MI	UNT to Laurel Run	HQ-CWF, MF	III	-	31.2R2	41.031048	-75.624644	Kidder Twp	Blakeslee	-	-	-	-	142	0.12	141	0.10	N/A	N/A	N/A	N/A - Workspace
110316_GM_1001_I_MI	UNT to Mud Run	HQ-CWF, MF	III	-	32.7R3	41.009773	-75.615496	Bethlehem Twp	Blakeslee	-	-	-	-	27	0.01	70	0.01	N/A	N/A	N/A	N/A - Workspace
110316_GM_1003_I_MI	UNT to Mud Run	HQ-CWF, MF	III	-	32.8R3	41.009027	-75.615306	Kidder Twp	Blakeslee	9	0.01	67	0.01	260	0.15	260	0.24	DPX	FX	DX-NF	Mat Bridge or equivalent
110316_GM_1004_I_MI	UNT to Mud Run	HQ-CWF, MF	III	-	32.9R3	41.007813	-75.614905	Kidder Twp	Blakeslee	10	0.00	3	0.00	211	0.17	127	0.08	DPX	FX	DX-NF	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temporary Equipment Crossing
042115_JC_1001_P_IN	Mud Run	HQ-CWF, MF	III	TS	33.2R3	41.002810	-75.613321	Kidder Twp	Blakeslee	45	0.05	45	0.03	105	0.06	110	0.04	DPX	FX	CD	Mat Bridge or equivalent
042115_JC_1002_P_MI	UNT to Mud Run	HQ-CWF, MF	III	-	33.2R3	41.002554	-75.613245	Kidder Twp	Blakeslee	10	0.01	10	0.01	75	0.06	78	0.05	DPX	FX	CD	Mat Bridge or equivalent
042115_JC_1003_E_MI	UNT to Mud Run	HQ-CWF, MF	III	TSF	33.4R3	41.000294	-75.612356	Kidder Twp	Blakeslee	-	-	-	-	242	0.01	237	0.06	N/A	N/A	N/A	N/A
042115_JC_1004_I_MI	UNT to Mud Run	HQ-CWF, MF	III	-	33.4R3	40.999391	-75.612116	Kidder Twp	Pohopoco Mountain	143	0.02	25	0.04	688	0.31	688	0.44	DPX	FX	DX-NF	Mat Bridge or equivalent
042115_JC_1005_E_MI	UNT to Mud Run	HQ-CWF, MF	III	-	33.5R3	40.998924	-75.611895	Kidder Twp	Pohopoco Mountain	4	0.00	3	0.00	147	0.04	-	-	DPX	FX	DX-NF	Mat Bridge or equivalent
042115_JC_1006_I_MI	UNT to Mud Run	HQ-CWF, MF	III	TSF	33.7R3	40.996142	-75.611697	Penn Forest Twp	Pohopoco Mountain	-	-	-	-	49	0.00	-	-	N/A	N/A	N/A	N/A - Workspace
042315_JC_1001_I_MI	UNT to Stony Creek	EV, MF	III	-	34.7R2	40.983155	-75.620034	Penn Forest Twp	Pohopoco Mountain	50	0.00	-	0.00	623	0.07	621	0.58	N/A	N/A	N/A	Mat Bridge or equivalent
042315_JC_1002_P_MI	UNT to Stony Creek	EV, MF	III	-	34.7R2	40.982071	-75.620589	Penn Forest Twp	Pohopoco Mountain	6	0.01	7	0.01	138	0.07	137	0.15	DPX	FX	CD	Mat Bridge or equivalent
042315_JC_1003_P_IN	Stony Creek	EV, MF	III	-	34.8R3	40.981007	-75.621247	Penn Forest Twp	Pohopoco Mountain	21	0.01	18	0.02	146	0.06	120	0.10	DPX	FX	CD	Mat Bridge or equivalent
042315_JC_1003_I_IN	UNT to Stony Creek	EV, MF	III	-	34.8R3	40.980784	-75.621503	Penn Forest Twp	Pohopoco Mountain	117	0.00	-	-	517	0.05	419	0.36	N/A	N/A	N/A	Mat Bridge or equivalent
060117_MB_1001_P_MI	Yellow Run	EV, MF	III	-	36.1	40.962480	-75.629549	Penn Forest Twp	Christmans	64	0.03	25	0.03	173	0.07	173	0.17	DPX	FX	CD	Mat Bridge or equivalent
050615_JC_1002_I_MI	UNT to Yellow Run	EV, MF	III	-	36.5R3	40.955982	-75.630706	Penn Forest Twp	Christmans	-	-	-	-	109	0.09	105	0.06	N/A	N/A	N/A	N/A - Workspace
010816_DB_1001_I_MI	UNT to Yellow Run	EV, MF	III	-	36.6R3	40.955730	-75.630748	Penn Forest Twp	Christmans	-	-	-	-	1096	1.04	1096	0.76	N/A	N/A	N/A	N/A - Workspace

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temporary Equipment Crossing
061615_DB_1001_I_MI	UNT to Wild Creek	EV, MF	I, III	-	37.5	40.943444	-75.634616	Penn Forest Twp	Christmans	14	0.00	7	0.01	183	0.07	173	0.14	DPX	FX	DX-NF	Mat Bridge or equivalent
061615_DB_1002_P_IN	Wild Creek	EV, MF	I, III	-	38.3	40.931373	-75.634393	Penn Forest Twp	Christmans	18	0.01	10	0.01	128	0.06	121	0.12	DPX	FX	CD	Mat Bridge or equivalent
040517_BT_1001_E_MI	UNT to White Oak Run	EV, MF	III	-	41	40.903157	-75.602164	Penn Forest Twp	Pohopoco Mountain	1	0.00	1	0.00	113	0.02	110	0.11	DPX	FX	DX-NF	Mat Bridge or equivalent
091516_GM_1002_E_MI	UNT to White Oak Run	EV, MF	III	-	41.1	40.903093	-75.600885	Penn Forest Twp	Pohopoco Mountain	3	0.00	3	0.00	125	0.06	116	0.12	DPX	FX	DX-NF	Mat Bridge or equivalent
012717_GM_1002_P_MI	UNT to White Oak Run	EV, MF	III	-	41.2	40.903032	-75.599669	Penn Forest Twp	Pohopoco Mountain	4	0.00	5	0.01	126	0.06	118	0.13	DPX	FX	CD	Mat Bridge or equivalent
012717_GM_1003_P_MI	UNT to White Oak Run	EV, MF	III	-	41.2	40.902948	-75.597997	Penn Forest Twp	Pohopoco Mountain	7	0.00	7	0.01	153	0.08	153	0.17	DPX	FX	CD	Mat Bridge or equivalent
020117_GM_1002_P_MI	UNT to White Oak Run	EV, MF	III	-	41.3	40.902886	-75.596767	Towamensing Twp	Pohopoco Mountain	4	0.00	4	0.01	143	0.07	143	0.16	DPX	FX	CD	Mat Bridge or equivalent
020117_GM_1001_P_MI	White Oak Run	EV, MF	III	-	41.6	40.900797	-75.592305	Towamensing Twp	Pohopoco Mountain	11	0.01	11	0.01	116	0.06	116	0.12	DPX	FX	CD	Mat Bridge or equivalent
061715_DB_1001_I_MI	UNT to Pohopoco Creek	CWF, MF	III	-	44.2R3	40.881022	-75.549557	Towamensing Twp	Pohopoco Mountain	-	-	5	0.00	-	-	144	0.01	N/A	N/A	N/A	N/A
122215_DB_1001_P_MI	UNT to Pohopoco Creek	CWF, MF	III	-	44.3R3	40.880764	-75.549161	Towamensing Twp	Pohopoco Mountain	-	-	8	0.00	-	-	260	0.01	HDD	HDD	HDD	N/A
041018_WA_1000_P_MI	UNT to Hunter Creek	HQ-CWF, MF	I, III	-	44.8R2	40.874316	-75.544467	Towamensing Twp	Palmerton	9	0.00	6	0.01	372	0.01	143	0.13	DPX	FX	CD	Mat Bridge or equivalent
051115_JC_1002_P_MI	UNT to Hunter Creek	HQ-CWF, MF	I, III	-	45R2	40.872086	-75.541740	Towamensing Twp	Palmerton	2	0.00	2	0.00	119	0.07	105	0.12	DPX	FX	CD	Mat Bridge or equivalent

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051115_JC_1001_P_MI	UNT to Hunter Creek	HQ-CWF, MF	I, III	-	45.6	40.865571	-75.537937	Towamensing Twp	Palmerton	3	0.00	3	0.00	153	0.08	153	0.18	DPX	FX	CD	Mat Bridge or equivalent
041018_WA_1002_I_MI	UNT to Hunter Creek	HQ-CWF, MF	I, III	-	46.1	40.860574	-75.529517	Moore Twp	Palmerton	-	-	-	-	96	0.04	87	0.02	N/A	N/A	N/A	N/A - Workspace
041018_WA_1003_I_MI	UNT to Hunter Creek	HQ-CWF, MF	I, III	-	46.3	40.858313	-75.526976	Towamensing Twp	Palmerton	3	0.00	3	0.00	111	0.01	107	0.11	DPX	FX	DX-NF	Mat Bridge or equivalent
090914_WA_1000_P_IM	Buckwha Creek	CWF, MF	III	TS	48.1	40.837393	-75.508850	Lower Towamensing Twp	Palmerton	59	0.03	57	0.06	176	0.07	167	0.12	DPX	FX	CD	Mat Bridge or equivalent
041217_GM_1001_P_IN	Aquashicola Creek	HQ-CWF, MF	III	TS	49.3R3	40.824367	-75.499251	Lower Towamensing Twp	Kunkletown	-	-	34	0.00	-	-	205	0.01	BX	BX	BX	N/A
072618_WA_1010_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.6R3	40.821613	-75.479982	Lower Towamensing Twp	Kunkletown	2	0.00	2	0.00	69	0.01	69	0.04	DPX	FX	DX-NF	Mat Bridge or equivalent
072618_WA_1009_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.6R3	40.821649	-75.479762	Lower Towamensing Twp	Kunkletown	3	0.00	3	0.00	82	0.01	80	0.04	DPX	FX	DX-NF	Mat Bridge or equivalent
072618_WA_1007_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.6R3	40.821693	-75.479500	Lower Towamensing Twp	Kunkletown	1	0.00	1	0.00	137	0.07	132	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
072618_WA_1008_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.6R3	40.821572	-75.480231	Towamensing Twp	Kunkletown	-	-	-	-	122	0.12	122	0.07	N/A	N/A	N/A	N/A - Workspace
072618_WA_1005_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.821935	-75.478779	Lower Towamensing Twp	Kunkletown	7	0.00	-	-	93	0.04	84	0.04	N/A	N/A	N/A	Mat Bridge or equivalent
072618_WA_1004_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.821837	-75.478641	Lower Towamensing Twp	Kunkletown	5	0.00	2	0.00	92	0.01	92	0.07	DPX	FX	DX-NF	Mat Bridge or equivalent
072618_WA_1003_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.821815	-75.478545	Lower Towamensing Twp	Kunkletown	2	0.00	2	0.00	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent

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072618_WA_1001_P_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.821894	-75.478306	Lower Towamensing Twp	Kunkletown	6	0.00	6	0.01	111	0.06	110	0.12	DPX	FX	CD	Mat Bridge or equivalent
072618_WA_1006_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.822020	-75.478019	Williams Twp	Kunkletown	-	-	-	-	57	0.04	57	0.02	N/A	N/A	N/A	N/A - Workspace
072618_WA_1002_I_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	50.7R3	40.821927	-75.478108	Towamensing Twp	Kunkletown	-	-	-	-	24	0.01	23	0.01	N/A	N/A	N/A	N/A - Workspace
Blue Mountain Lateral																					
041017_GM_1001_P_IN	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	0.5R3	40.818068	-75.504663	Lower Towamensing Twp	Palmerton	7	0.00	-	-	218	0.10	272	0.12	N/A	N/A	N/A	Mat Bridge or equivalent
041017_GM_1001_P_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	0.5R3	40.818012	-75.504750	Lower Towamensing Twp	Palmerton	8	0.00	8	0.00	-	-	17	-	FX	DPX	DX-NF	Mat Bridge or equivalent
041117_GM_1002_E_MI	UNT to Aquashicola Creek	HQ-CWF, MF	III	-	0.51R3	40.817938	-75.504833	Lower Towamensing Twp	Palmerton	9	0.00	5	0.00	7	0.01	70	0.03	DPX	FX	DX-NF	Mat Bridge or equivalent
Kidder Compressor Station																					
082515_BT_1001_P_IM	UNT to Black Creek	HQ-CWF, MF	III	-	26.6	41.081999	-75.667750	Kidder Twp	Hickory Run	-	-	12	0.03	-	-	126	0.29	N/A - Kidder Compress or Station Access Road	N/A	N/A	Permanent Culvert Installed
Access Roads																					
063017_GM_1001_I_MI	Lime Hollow	HQ-CWF, MF	III	-	24.4	41.108740	-75.686191	Kidder Twp	Hickory Run	2	0.00	-	-	111	0.08	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
012617_GM_1002_P_MI	UNT to Black Creek	HQ-CWF, MF	III	-	25.1	41.099329	-75.683215	Kidder Twp	Hickory Run	-	-	8	0.01	-	-	100	0.12	N/A	N/A	N/A	Culvert Replacement In Kind

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Notes:

- 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
- Sources: PADEP Streams Chapter 93 Existing Use, dated 7/2017 and PADEP Streams Chapter 93 Designated Use, dated 2/2017. If a stream has an existing use, the designated use has been replaced with that value. Available at www.pasda.psu.edu.
- Sources: PFBC Stream Sections that Support Wild Trout Production, dated 8/2018 and PFBC Class A Wild Trout Streams, dated 8/2018. Available at www.pasda.psu.edu. I = Approved Trout Water, II = Wilderness Trout Stream, III = Naturally Reproducing Trout Stream.
- Sources: PASDA Stocked Trout Waters (Flowing Waters), dated 2/2018 and PASDA Trout Stocked Streams, dated 2018. Available at www.pasda.psu.edu.
- 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.
- 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.
- Temporary impact acres are measured within the temporary workspace and additional temporary workspace; the measurement does not include acreages impacted within the 50' permanent ROW. A value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the watercourse or floodway, as applicable.
- 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 50' 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.
- Permanent impact acres are measured within the 50' 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 value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the watercourse or floodway, as applicable.
- 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