

**ATTACHMENT E
REVISED IMPACT TABLE**

TABLE 1
AQUATIC RESOURCE IMPACT TABLE
FALCON ETHANE PIPELINE SYSTEM
ALLEGHENY COUNTY, PENNSYLVANIA

REVISED JULY 2018

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type ¹	Chapter 93 Designation ²	Pipeline or Access Road Crossing Length (ft) ⁵	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴				
1	40.418728	-80.287902	14.0	S-PA-170113-MRK-007	UNT to Little Raccoon Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	2878.11	NA	Temporary Workspace: The top of the floodway is located in TWS on the travel side of the ROW. Therefore vehicles will travel through this area during construction. An erosion control blanket will be placed over this area following construction to aid in slope stability and revegetation.	GP-5, GP-8	2 of 26	SS051
2	40.422950	-80.291682	14.3	W-PA-170113-MRK-005	-	Wetland	PEM	OTHER	0.00	-	-	-	32.45	186.38	218.84	Permanent Right-of-Way: this wetland is located within the PROW. A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is restored to original contours. The wetland will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	3 of 26	SS052
3	40.423978	-80.292646	14.3	W-PA-170113-MRK-004	-	Wetland	PEM	OTHER	79.58	-	-	-	5471.16	6461.42	11932.58	Pipeline (Partial HDD): a portion of this wetland is located along the pipeline route. In this area, A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is restored to original contours. The wetland will be maintained in perpetuity as an herbaceous wetland. The remaining portion of the wetland will be crossed via HDD.	GP-5, GP-8	3&4 of 26	SS052/SS053
	40.425108	-80.293148	14.4	S-PA-170113-MRK-003	UNT to Little Raccoon Run	Stream Floodway	Intermittent	WWF	2.50 524.26	2.50 -	225.05 -	0.00 -	2.66 557.03	0.00 0.00	0.00	HDD: This stream and floodway will be crossed via HDD HOU-05. The HDD will be 56 feet below the surface. There will be no above-ground disturbance.			
4	40.426753	-80.293878	14.6	S-PA-170113-MRK-002	UNT to Little Raccoon Run	Stream	Intermittent	WWF	6.00	6.00	68.36	0.00	6.38	0.00	0.00	HDD: This stream and floodway will be crossed via HDD HOU-05. The HDD will be 63 feet below the surface. There will be no above-ground disturbance.	GP-5	4 of 26	SS055
						Floodway			-	-	-	125.48	-	-					
5	40.430024	-80.295073	14.8	W-PA-170113-MRK-001	-	Wetland	PEM	-	0.00	-	-	-	0.00	0.00	0.00	Will be fenced off	N/A	5 of 26	SS056
6	40.431040	-80.293621	14.9	S-PA-161205-WRA-008	UNT to Potato Garden Run	Stream	Intermittent	TSF	4.00	4.00	77.66	69.14	310.64	276.57	587.21	Pipeline: The stream is located through the ROW. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing.	GP-5, GP-8	5 of 26	SS057
						Floodway			-	-	-	151.54	-	-					
7	40.431621	-80.293237	14.9	S-PA-170207-MRK-004	UNT to Potato Garden Run	Stream	Intermittent	TSF	0.00	4.00	17.38	0.00	69.52	0.00	69.52	Permanent Right-of-Way/Pipeline: The wetland and floodway are being directly crossed by the pipeline and the stream, floodway, and wetland are all located within the PROW. The stream will be crossed in the dry and the pipe will be placed a minimum of five feet below the stream bed. The pipe will be placed a minimum of four feet below the wetland. During construction the topsoil will be stockpiled. Following construction, the resources will be restored to their original contours. The wetland will be maintained as PEM.	GP-5, GP-8	5 of 26	SS058
						Floodway			-	-	-	109.07	-	-					
	40.431777	-80.293135		W-PA-170207-MRK-003	-	Wetland	PEM	EV	16.12	-	-	-	443.54	0.00	443.54				
8	40.431938	-80.293041	15.0	W-PA-170207-MRK-002	-	Wetland	PEM	EV	0.00	-	-	-	144.20	1767.36	1911.56	Permanent Right-of-Way/TWS: portions of this wetland are located within the PROW. A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is returned to pre-construction conditions. Any area above the PROW will be maintained as PEM. 10-ft-wide timber mats will be placed across the wetlands in the travel areas. Following construction, the mats will be removed.	GP-5, GP-8	5 of 26	SS058
9	40.437228	-80.295134	15.4	S-PA-161205-WRA-006	UNT to Potato Garden Run	Stream	Ephemeral	WWF	0.00	5.00	57.16	0.00	285.79	0.00	285.79	Permanent Right-of-Way: the stream is located within the permanent ROW. Work will be conducted in the dry with a method (pump and dam/flume) determined by field conditions. The stream will be returned to the original contours following construction.	GP-5, GP-8	7 of 26	SS059
	Floodway	-				-			-	127.20	-	-	6152.39	1424.74					
						Stream		WWF	4.00	4.00	50.07	25.01	200.28	100.05		Pipeline: stream and floodway are being directly impacted by the			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type ¹	Chapter 93 Designation ²	Pipeline or Access Road Crossing Length (ft) ⁵	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)	
													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴					
10	40.437968	-80.296653	15.5	S-PA-161205-WRA-004	UNT to Potato Garden Run	Floodway	Perennial	-	263.49	-	-	-	5230.71	2703.93	300.33	GP-5, GP-8	7 of 26	SS060		
	40.438000	-80.296576		W-PA-161205-WRA-003	-	Wetland	PSS	OTHER	0.00	-	-	-	75.37	0.00	75.37				Permanent Right-of-Way: Shrubs will be cleared/grubbed and topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.	
	40.438041	-80.296666		S-PA-161205-WRA-003	UNT to Potato Garden Run	Stream Floodway	Ephemeral	WWF	16.00 113.07	8.00	73.65	0.00	589.22 2828.20	0.00 1190.24	589.22				Pipeline: streams and floodways are being directly impacted by the pipeline. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the S-PA-161205-WRA-003A stream/floodway to allow for construction equipment crossing.	
	40.438107	-80.296725		S-PA-161205-WRA-003A	UNT to Potato Garden Run	Stream	Ephemeral	WWF	0.00	8.00	21.40	0.00	171.23	0.00	171.23					Permanent Right-of-Way: the floodway is located within the permanent ROW. This is in an upland area and once construction is completed, it will be restored to previous conditions and maintained in an herbaceous state.
						Floodway														
40.438246	-80.296934	S-PA-170207-MRK-001	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	-	0.00	1269.05	NA	Temporary Workspace: the floodway is located within TWS. This is within an upland area. Once construction is complete, it will be restored to previous contours and vegetation will be allowed to return to pre-construction conditions.					
11	40.438754	-80.296156	15.6	W-PA-161205-WRA-001	-	Wetland	PEM	EV	14.96	-	-	-	766.78	405.24	1172.02	GP-5, GP-8	7 of 26	SS061		
12	40.439281	-80.295447	15.7	S-PA-161205-WRA-001	UNT to Potato Garden Run	Stream Floodway	Ephemeral	WWF	2.00	2.00	51.18	25.80	102.37	51.59	153.96	Pipeline: stream and floodway are being directly impacted by the pipeline. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site.	GP-5, GP-8	7 of 26	SS061	
13	40.438793	-80.292918	15.7	S-PA-151117-NLS-004	UNT to Potato Garden Run	Floodway	Intermittent	-	80.55	-	-	-	0.00	1607.96	NA	HOU-TAR-20: The upland floodway will be impacted by the rock for the rock construction entrance. Once construction is complete, the rock will be removed and the floodway will be the same as it was prior to construction.	GP-8	7 of 26	SS062	
14	40.446071	-80.295066	16.2	S-PA-160315-NLS-001	UNT to Potato Garden Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	0.00	NA	HOU-TAR-21: This access road was removed; as a result, this floodway will no longer be impacted.	N/A	9 of 26	SS063	
15	40.446958	-80.292138	16.3	S-PA-151117-NLS-003	Potato Garden Run	Stream Floodway	Perennial	WWF	7.50	7.50	51.94	0.00	7.94	0.00	0.00	HDD: These resources will be crossed via HDD HOU-06 approximately 41 feet below the stream and 39 feet below the wetland. There will be no above-ground disturbance. The wetland is greater than 10 acres.	JPA	9 of 26	SS064	
				W-PA-151117-NLS-001 Crossing #1	-	Wetland	PEM	OTHER	253.995542	-	-	-	269.87	0.00						
16	40.448986	-80.293224	16.3	W-PA-151117-NLS-001 Crossing #2	-	Wetland	PEM	OTHER	68.72	-	-	-	0.00	1397.53	1397.53	HOU-TAR-22: This is a temporary access road crossing. Ten-foot-wide timber mats will be installed and compost filter sock will be installed along the mats.	GP-8	9&10 of 26	SS065	
17	40.463641	-80.289120	17.7	S-PA-160405-JLK-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	1.50	1.50	41.18	0.00	1.59	0.00	0.00	HDD: The stream will be crossed via HDD HOU-07. The HDD begins 74 feet away from the stream. The pipe depth ranges 11 to 13 feet deep. The stream will have no above-ground disturbance.	GP-5, GP-8	13 of 26	SS066	
						Floodway														-
	40.463870	-80.289239	W-PA-160405-JLK-001	-	Wetland	PEM	OTHER	47.74	-	-	-	50.73	0.00	0.00	HDD: This complex is crossed via HDD HOU-07 at a depth ranging 11 to 13 feet. There will be no above-ground disturbance.					
	40.463811	-80.289215			PFO		OTHER	27.15	-	-	28.85	0.00								
40.463864	-80.289237	S-PA-161206-WRA-001	UNT to Potato Garden Run	Floodway	Intermittent	-	31.01	-	-	-	-	32.94	0.00							
18	40.466653	-80.290370	17.9	S-PA-151202-MRK-003	UNT to Potato Garden Run	Stream Floodway	Perennial	WWF	4.50	4.50	69.88	0.00	4.78	0.00	0.00	HDD: This complex is crossed via HDD HOU-07 at a depth of 39 feet. There will be no above-ground disturbance.	GP-5	14 of 26	SS067	
				-	-	Wetland	PSS	OTHER	62.48	-	-	66.39	0.00							
				W-PA-151202-MRK-003	-	Wetland	PFO	OTHER	0.00	-	-	9.31	0.00							
19	40.468995	-80.291152	18.0	S-PA-151202-MRK-002	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	0.00	1057.10	NA	Temporary Workspace: both upland floodways are located within TWS in the travel lane of the ROW. Following construction this area will be restored to original contours. Portions of this area will be covered with an erosion control blanket.	GP-5, GP-8	14 of 26	SS068	
				S-PA-151202-MRK-001	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	0.00	4552.42	NA					

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													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴				
20	40.471279	-80.294268	18.3	W-PA-160401-MRK-008	-	Wetland	PEM	OTHER	30.16	-	-	-	891.91	77.01	968.92	Pipeline: The pipeline crosses the wetland directly. A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	15 of 26	SS069
21	40.471662	-80.293848	18.3	W-PA-160401-MRK-007	-	Wetland	PEM	OTHER	6.72	-	-	-	371.34	556.32	927.66	Permanent Right-of-Way: Topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.	GP-5, GP-8	15 of 26	SS069
22	40.472656	-80.292393	18.4	W-PA-160401-MRK-006	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	N/A; Route Shifted	N/A	15 of 26	SS070
23	40.473412	-80.292626	18.5	W-PA-161213-MRK-003	-	Wetland	PEM	OTHER	42.25	-	-	-	3920.80	0.00	3920.80	Permanent Right-of-Way: Wetland topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland. The upland floodway will be returned to upland conditions following construction.	GP-5, GP-8	15 of 26	SS071
	40.473536	-80.292643		S-PA-161213-MRK-001	UNT to Potato Garden Run	Stream	Intermittent	-	2.00	2.00	51.45	25.03	102.90	50.06	152.96				
						Floodway	-	-	0.00	-	-	-	-	5242.07	1594.09				
24	40.472937	-80.292463	18.5	W-PA-160401-MRK-005	-	Wetland	PSS	OTHER	0.00	-	-	-	0.00	4629.80	4629.80	Temporary Workspace: the shrubs will be cleared and topsoil will be segregated. Timber mats will be placed within the travel lane. Following construction, timber mats will be removed, the segregated topsoil will be returned, and the contours will be restored to original conditions. Since this is a TWS, shrubs will be allowed to grow back in this area.	GP-5, GP-8	15&16 of 26	SS072
	40.474585	-80.292346		S-PA-161220-MRK-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	0.00	4.00	189.65	95.04	758.58	380.17	1138.75	Permanent Right-of-Way: This is in an upland area and once construction is completed, it will be restored to previous conditions and maintained in an herbaceous state.			
						Floodway	Intermittent	-	326.30	-	-	-	-	16007.74	10043.74				
25	40.475799	-80.291850	18.6	W-PA-161220-MRK-002	-	Wetland	PEM	OTHER	48.97	-	-	-	1764.00	2.02	1766.02	Pipeline: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland.	GP-5, GP-8	16 of 26	SS073
26	40.476167	-80.291463	18.7	W-PA-161220-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	944.96	944.96	Temporary Workspace: The topsoil will be segregated during construction. A 10-foot-wide timber mat will be placed over the wetland in the travel lane to allow for construction equipment to cross the wetland. Following construction the timber mat will be removed, segregated topsoil will be returned, and the wetland will be returned to its original contours.	GP-5, GP-8	16 of 26	SS073
27	40.479131	-80.293634	18.9	W-PA-170213-JLK-004	-	Wetland	PEM	OTHER	51.02	-	-	-	605.19	0.00	605.19	Pipeline: The pipeline crosses the wetland directly. A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	17 of 26	SS074
	40.479230	-80.293765		S-PA-161123-WRA-006 Crossing #1	UNT to Potato Garden Run	Stream	Intermittent	WWF	0.00	6.00	123.04	98.62	738.24	591.70	1329.94	Permanent Right-of-Way/Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.			
	40.479318	-80.293815		W-PA-170213-JLK-003	-	Wetland	PSS	OTHER	0.00	-	-	-	-	311.34	149.34	460.68			
	40.481121	-80.295916		S-PA-161123-WRA-006 Crossing #2		Stream	Intermittent	WWF	6.00	6.00	66.28	11.23	397.66	67.37	465.03	Pipeline/Permanent ROW: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The			
						Floodway	-	-	65.82	-	-	-	4182.17	1471.66					

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													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴				
28	40.481328	-80.295883	19.1	S-PA-151111-MRK-003	UNT to Potato Garden Run	Stream	Perennial	WWF	4.50	4.50	119.31	116.03	536.88	522.15	1059.04	trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. For the wetland, A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	17&18 of 26	SS075/SS076/SS077
						Floodway							-	834.72					
	40.481375	-80.296061	S-PA-161123-WRA-004	Stream	Intermittent	WWF	0.00	4.00	2.19	143.89	8.74	575.55	584.29						
				Floodway										-	9.94				
	40.481977	-80.295781	19.2	W-PA-161122-WRA-002	-	Wetland	PEM	OTHER	84.76	-	-	-	4436.61	13.45	4450.07				
				Floodway	-	-	-	-	-	-	-	644.38	6249.71	137.10					
29	40.483435	-80.296473	19.3	S-PA-161122-WRA-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	5.00	5.00	58.52	32.56	292.62	162.78	455.40	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18 of 26	SS078
						Floodway							-	124.64					
30	40.484823	-80.303870	19.7	S-PA-160308-MRK-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	0.00	2.50	8.86	31.39	22.15	78.47	100.62	Pipeline/Permanent ROW: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18 of 26	SS079
						Floodway							-	101.51					
31	40.485044	-80.305855	19.8	S-PA-151112-MRK-003	UNT to Potato Garden Run	Stream	Perennial	WWF	7.00	7.00	90.96	43.84	636.71	306.91	943.62	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18&20 of 26	SS080
						Floodway							-	140.98					
32	40.485014	-80.306116	19.9	W-PA-160307-MRK-006	-	Wetland	PEM	OTHER	0.00	-	-	-	185.64	402.57	588.20	Permanent Right-of-Way: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. During construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	20 of 26	SS081
													40.485114	-80.307181					
				S-PA-151112-MRK-003	UNT to Potato Garden Run	Floodway	Perennial	-	0.00	-	-	-	292.63	2079.69	NA	Permanent and Temporary ROW: This is in an upland area and once construction is completed, it will be restored to previous conditions and the area within the PROW will be maintained in an herbaceous state.			
	40.485210	-80.307571		S-PA-151112-MRK-002	UNT to Potato Garden Run	Stream	Perennial	WWF	4.50	4.50	133.65	33.75	601.41	151.88	753.20	Pipeline/PROW: For the streams/floodways: The stream crossings will be conducted "in the dry" and the method used (pump and			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type ¹	Chapter 93 Designation ²	Pipeline or Access Road Crossing Length (ft) ⁵	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴				
33	40.485210	-80.307571	20.0	S-PA-151112-MRK-002	UNT to Potato Garden Run	Floodway	Perennial	-	224.85	-	-	-	11222.54	4770.76	733.20	Pipeline: The stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. A small portion of the wetland is located within the PROW. Topsoil will be segregated during construction. Following construction it will be replaced and original contours will be returned. The wetland will be maintained as PEM.	GP-5, GP-8	20 of 26	SS082
	40.485300	-80.307881		W-PA-160307-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	252.49	0.00	252.49				
	40.485545	-80.308573		S-PA-151112-MRK-001A	UNT to Potato Garden Run	Stream	Ephemeral	WWF	2.00	2.00	64.72	32.67	129.44	65.34	194.78				
34	40.490343	-80.315476	20.5	S-PA-151116-MRK-002	UNT to Potato Garden Run	Stream	Intermittent	WWF	5.50	5.50	92.92	51.41	511.04	282.76	793.80	Pipeline: The stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed.	GP-5, GP-8	21&22 of 26	SS083/SS084
	40.490698	-80.315591		S-PA-151116-MRK-001		Stream		Perennial	WWF	6.50	6.50	51.55	54.95	335.05					
	40.490606	-80.315710	W-PA-161020-MRK-001	-	Wetland	PEM	OTHER		0.00	-	-	-	0.00	531.38	531.38				
	40.492990	-80.314508	20.7	W-PA-160308-MRK-001	-	Wetland	PEM	OTHER	165.25	-	-	-	8740.92	0.00	8740.92				
35	40.503138	-80.314899	21.7	S-PA-151116-MRK-003	UNT to Raredon Run	Stream	Perennial	WWF	6.50	6.50	87.82	25.50	570.85	165.74	736.59	Pipeline/Permanent ROW: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland and stream complex located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	24 of 26	SS085
	40.503167	-80.315003		W-PA-151116-MRK-003	-	Wetland		PEM	OTHER	0.00	-	-	-	328.53					
36	40.506020	-80.315154	21.9	S-PA-151118-JLK-004	UNT to Raredon Run	Stream	Perennial	WWF	8.50	8.50	50.54	25.48	429.58	216.57	646.15	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	25 of 26	SS086
						Floodway		-	109.35	-	-	-	5483.01	2829.84					
37	40.509535	-80.312967	22.2	S-PA-151118-JLK-003	UNT to Raredon Run	Stream	Intermittent	WWF	3.35	3.35	50.96	50.75	170.72	170.00	340.72	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	25 of 26	SS087
						Floodway		-	105.34	-	-	-	5266.88	5242.17					
	40.512229	-80.311028		S-PA-161207-WRA-003A		Stream	Intermittent	WWF	0.00	6.00	14.85	12.93	89.09	77.56	166.64	Permanent Right-of-Way: stream work will be conducted in the dry. Once construction is completed, the stream will be restored to its original contours.			
						Floodway		-	20.15	-	-	-	856.70	631.24					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type ¹	Chapter 93 Designation ²	Pipeline or Access Road Crossing Length (ft) ⁵	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft ²) ⁴	Area within Temporary Workspace (ft ²) ⁴	Area within ROW (ft ²) ⁴				
38	40.512243	-80.310929	22.4	S-PA-161207-WRA-003	UNT to Raredon Run	Stream	Intermittent	WWF	6.00	6.00	56.14	24.83	336.84	148.99	485.82	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed.	GP-5, GP-8	26 of 26	SS088
						Floodway		-	26.14	-	-	-	1500.47	2939.86					
	Stream	Intermittent		WWF		6.00	6.00	52.71	12.44	316.29	74.65	390.93							
	Floodway			-		111.76	-	-	-	5575.27	4973.90								
Houston to Junction Pipeline, Allegheny County, Pennsylvania Totals						Stream			119.35	148.85	1943.07	977.61	8,763.46	4,984.82	12,433.22				
						Floodway			5817.24	0.00	0.00	0.00	206,159.84	158,319.24	NA				
						Wetland			999.88	0.00	0.00	0.00	29,227.38	18,141.85	46944.09				

KEY

¹ Cowardin Vegetation Classes are defined by the United States Fish and Wildlife Service (USFWS) for the National Wetland Inventory. PEM - Palustrine Emergent, PSS - Palustrine Scrub Shrub, PFO - Palustrine Forested, PUB - Palustrine Unconsolidated Bottom, POW - Palustrine Open

² Title 25, PA Code, Chapter 93 Designation WWF - Warm Water Fishes, TSF - Trout Stocked Fishes, EV - Exceptional Value, OTHER - other wetland, not EV

³ Floodways overlap streams and wetlands but not other floodways. Floodways are an assumed 50' wide from tops of banks. These are only applicable to PADEP impacts.

⁴ The areas for wetlands and floodways are measured using Geographic Information Systems (G.I.S.) and the areas of streams are calculated by multiplying width X length.

Note that although there is no permanent above-ground ROW for HDDs, the permanent impact area is captured within the "Area within Permanent Right-of-Way" column.

Change since 9/15/17 Permit Submission