

**ATTACHMENT J
REVISED IMPACT TABLE**

**TABLE 1
AQUATIC RESOURCE IMPACT TABLE
FALCON ETHANE PIPELINE SYSTEM
WASHINGTON 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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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	40.263520	-80.264046	0.2	W-PA-160407-JLK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	N/A - LOD shifted	N/A	1 of 39	SS001
2	40.263438	-80.264434	0.2	W-PA-160407-JLK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	317.84	317.84	Temporary Workspace: A small portion of this wetland is located in TWS. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross.	GP-5, GP-8	1 of 39	SS002
3	40.263285	-80.266208	0.4	S-PA-160406-MRK-002 Crossing #1	Westland Run	Stream	Perennial	WWF	18.00	18.00	54.79	0.00	986.20	0.00	986.20	Pipeline: This stream is directly crossed the pipeline route. 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	1 of 39	SS004
						Floodway			-	-	-	161.16	-	-					
4	40.263964	-80.266794	0.4	W-PA-160406-MRK-003	-	Wetland	PUB	OTHER	0.00	-	-	-	61.71	248.09	309.80	Permanent Right-of-Way: This wetland is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	1 of 39	SS005
5	40.264281	-80.266816	0.4	W-PA-160406-MRK-004	-	Wetland	PUB	OTHER	32.92	-	-	-	726.26	0.00	726.26	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	1 of 39	SS006

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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				
6	40.265472	-80.266652	0.5	W-PA-160406-MRK-006	-	Wetland	PEM	OTHER	31.97	-	-	-	2352.18	0.00	2352.18	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	1&2 of 39	SS007
7	40.267136	-80.267000	0.7	W-PA-170112-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	194.27	312.62	506.89	Permanent Right-of-Way: This wetland is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	2 of 39	SS008
8	40.268140	-80.267617	0.7	W-PA-170112-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	N/A - LOD shifted	N/A	2 of 39	SS009
9	40.272129	-80.269119	1.1	S-PA-160406-MRK-002 Crossing #2	Westland Run	Stream	Perennial	WWF	18.00	18.00	50.17	52.67	902.99	948.15	1851.14	Temporary Workspace: This wetland is located in TWS. It is located adjacent to the travel area; however, it may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross.	GP-5, GP-8	3 of 39	SS010
						Floodway		-	133.99	-	-	-	6700.16	1334.47					
	40.272398	-80.269054		W-PA-160406-MRK-001	-	Wetland	PSS	OTHER	0.00	-	-	-	0.00	0.00	0.00	N/A - LOD shifted			
10	40.272129	-80.268682	1.1	W-PA-160406-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	0.00	0.00	N/A - LOD shifted	N/A	3 of 39	SS011
11	40.273690	-80.264996	1.3	S-PA-160229-MRK-001	UNT to Westland Run	Stream	Ephemeral	WWF	4.00	4.00	89.08	0.00	356.34	0.00	356.34	Pipeline: This stream is directly crossed the pipeline route. 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	3 of 39	SS012
						Floodway		-	177.75	-	-	-	8697.42	301.29					
		40.273777	-80.264403		S-PA-160229-MRK-002		Floodway	Intermittent	-	9.73	-	-	-	3482.32	0.00		Pipeline: The upland floodway of this stream is directly crossed the pipeline route. Following construction, the upland floodway will be restored to its original contours.		

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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					
12	40.277933	-80.260251	1.8	S-PA-160229-MRK-003	UNT to Westland Run	Stream	Ephemeral	WWF	3.50	3.50	27.75	56.33	97.14	197.15	294.29	Pipeline: This stream is directly crossed the pipeline route. 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	4 of 39	SS013
						Floodway	-	-	-	-	2915.96	5792.25							
13	40.279413	-80.260296	1.9	S-PA-160229-MRK-004	UNT to Westland Run	Stream	Perennial	WWF	5.00	5.00	25.51	55.12	127.56	275.58	403.14	Pipeline: This stream is directly crossed the pipeline route. 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 39	SS014
						Floodway	-	-	-	-	2722.97	5776.57							
14	40.286932	-80.260162	2.4	S-PA-160301-MRK-001	UNT to Westland Run	Stream	Ephemeral	WWF	3.00	3.00	56.88	27.85	85.95	168.28	254.23	Pipeline: This stream is directly crossed the pipeline route. 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	6 of 39	SS015
						Floodway	-	-	-	-	2979.66	5892.94							
15	40.287466	-80.260180	2.4	S-PA-160301-MRK-002	UNT to Westland Run	Stream	Ephemeral	WWF	1.75	1.75	45.91	0.00	43.99	35.17	79.16	Pipeline: This stream is directly crossed the pipeline route. 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	6&7 of 39	SS016
						Floodway	-	-	-	-	3211.39	5445.58							

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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				
16	40.290992	-80.262263	2.7	S-PA-160301-MRK-003	UNT to Westland Run	Stream	Perennial	WWF	4.00	4.00	66.05	42.76	264.20	171.06	435.25	Pipeline: This stream is directly crossed the pipeline route. 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	7 of 39	SS017
						Floodway													
17	40.294567	-80.265001	3.0	S-PA-151026-MRK-002	UNT to Westland Run	Floodway	Perennial	-	67.56	-	-	-	1520.77	901.61	NA	Pipeline: The floodway of this stream is directly crossed the pipeline route. Following construction, the floodway will be restored to its original contours.	GP-5, GP-8	8 of 39	SS018
18	40.303347	-80.265344	3.7	S-PA-151026-MRK-001	UNT to Westland Run	Stream	Perennial	WWF	12.00	4.00	58.06	0.00	12.75	0.00	0.00	HDD: These resources will be crossed via HDD HOU-01. The pipe will be approximately 33 feet below stream S-PA-151026-MRK-001 and approximately 36 feet below stream S-PA-160302-MRK-003. There will be no above-ground disturbance.	GP-5	10 of 39	SS019
						Floodway													
	40.303418	-80.265459		S-PA-160302-MRK-003		Stream	Intermittent	WWF	2.50	2.50	77.74	0.00	2.66	0.00					
						Floodway													
19	40.304537	-80.267157	3.8	S-PA-160302-MRK-003	UNT to Westland Run	Stream	Intermittent	WWF	0.00	2.50	13.28	0.00	2.66	0.00	0.00	HDD: This resource will be crossed via HDD HOU-01. The pipe will be approximately 64 feet below stream. There will be no above-ground disturbance.	GP-5	10 of 39	SS020
						Floodway													
20	40.310077	-80.267259	4.2	S-PA-151029-MRK-003	UNT to Millers Run	Stream	Intermittent	WWF	6.50	6.50	79.51	25.25	516.81	164.15	680.96	Pipeline: This stream is directly crossed the pipeline route. 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	GP-5, GP-8	12 of 39	SS021
						Floodway													
	40.310265	-80.267371		S-PA-151029-MRK-004		Floodway	Ephemeral	-	0.00	-	-	0.00	294.36	NA					
21	40.312527	-80.263192	4.5	S-PA-151029-MRK-002	UNT to Millers Run	Stream	Perennial	WWF	4.00	4.00	63.23	29.78	252.90	119.11	372.01	Pipeline: These resources are directly crossed the pipeline route. 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. In the wetland, 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, the segregated topsoil will be replaced and both the stream and wetland will be	GP-5, GP-8	12 of 39	SS022
						Floodway													

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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				
				W-PA-151029-MRK-001	-	Wetland	PEM	OTHER	56.84	-	-	-	2879.74	1328.91	4208.65	restored to original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream and wetland to allow for construction equipment crossing. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.			
22	40.318254	-80.260969	5.0	S-PA-161205-CBA-002	UNT to Millers Run	Stream	Intermittent	WWF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A - LOD shifted	GP-5, GP-8	13&14 of 39	SS023
						Floodway		-	45.50	-	-	0.00	138.03	0.00	Pipeline: These resources are directly crossed the pipeline route. 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. In the wetland, 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, the segregated topsoil will be replaced and the stream, wetland, and upland floodway will be restored to original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream, wetland, and upland floodway to allow for construction equipment crossing. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.				
	40.318349	-80.260960		W-PA-151210-MRK-001	-	Wetland	PEM	OTHER	80.94	-	-	-	397.42	343.76	741.18				
	40.318425	-80.260911		S-PA-151029-MRK-001	UNT to Millers Run	Stream	Perennial	WWF	3.00	3.00	51.69	27.06	155.07	81.19	236.26				
				Floodway	-	106.61		-	-	-	5323.86	2782.59							
23	40.326644	-80.261331	5.7	S-PA-151210-MRK-001	Millers Run	Stream	Perennial	WWF	18.00	18.00	37.50	0.00	19.13	0.00	0.00	HDD: This resource will be crossed via HDD HOU-02. The pipe will be approximately 35 feet below stream. There will be no above-ground disturbance.	GP-5	15&16 of 39	SS024
						Floodway		-	162.15	-	-	-	172.28	0.00					
24	40.333045	-80.261723	6.1	S-PA-151215-MRK-004	UNT to Millers Run	Stream	Intermittent	WWF	6.00	2.00	128.98	0.00	257.96	0.00	257.96	Pipeline: This stream is directly crossed the pipeline route. 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	17 of 39	SS025
						Floodway		-	244.42	-	-	-	11886.36	0.00					

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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				
25	40.336384	-80.261438	6.4	W-PA-151215-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	356.07	0.00	356.07	Permanent Right-of-Way: This wetland is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	18 of 39	SS026
26	40.338076	-80.258966	6.6	S-PA-170214-CBA-001	UNT to Millers Run	Stream	Ephemeral	WWF	0.00	4.20	148.32	0.00	622.92	0.00	622.92	Permanent Right-of-Way: This stream is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the stream will be restored to original contours.	GP-5, GP-8	18 of 39	SS027
						Floodway		-	97.62	-	-	4875.91	808.42	1404.99	Pipeline: These resources are directly crossed the pipeline route. 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.				
				Stream		Perennial	WWF	12.00	12.00	68.23	48.85	818.76	586.22						
				Floodway			-	147.27	-	-	7155.31	4886.23							
27	40.340839	-80.257106	6.9	W-PA-170214-CBA-003	-	Wetland	PEM	OTHER	11.49	-	-	-	505.80	0.00	505.80	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	19 of 39	SS028

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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	40.342285	-80.259924	7.1	S-PA-170214-CBA-002	UNT to Millers Run	Stream	Intermittent	WWF	9.50	9.50	58.51	166.34	555.87	1580.22	2136.09	Pipeline: This stream is directly crossed the pipeline route. 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	19 of 39	SS029
						Floodway		-	128.17	-	-	-	4289.57	16658.28					
29	40.342281	-80.261870	7.2	W-PA-170413-RCL-001		Wetland	PEM	OTHER	220.58	-	-	-	9646.60	9463.18	19109.78	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	19 of 39	SS030/SS031
	40.342861	-80.262258	7.3	S-PA-160404-CBA-001	UNT to Millers Run	Stream	Intermittent	WWF	2.50	2.50	184.30	0.00	460.75	0.00	460.75	Conventional Bore: This resource will be crossed via conventional bore. The pipe will be approximately 51 feet below stream. There will be no above-ground disturbance. Permanent Right-of-Way: This stream is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the stream will be restored to original contours.			

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													Area within Permanent Right-of-Way (ft) ⁴	Area within Temporary Workspace (ft) ⁴	Area within ROW (ft) ⁴				
	40.343038	-80.262304				Floodway		-	325.54	-	-	-	14717.29	6348.05		Pipeline: This upland floodway is directly crossed the pipeline route. Following construction, the upland floodway will be restored to its original contours.			
						Stream		WWF	2.50	2.50	0.00	0.00	0.00	0.00	0.00	HOU-TAR-10; Existing Culvert: This stream and upland floodway will be crossed by access road HOU-TAR-10 utilizing an existing culvert. There will be no impact.			
						Floodway		-	297.15	-	-	-	0.00	0.00					
30	40.342808	-80.263032	7.3	S-PA-151208-MRK-003	UNT to Millers Run	Stream	Perennial	WWF	0.00	6.00	0.00	137.26	0.00	823.54	823.54	Temporary Workspace: This stream is located in TWS. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross.	GP-5, GP-8	19 of 39	SS032
						Floodway		-	51.99	-	-	-	2950.56	1884.30	Pipeline: This upland floodway is directly crossed the pipeline route. Following construction, the upland floodway will be restored to its original contours.				
				W-PA-170413-RCL-005		-	Wetland	PSS	OTHER	0.00	-	-	-	0.00	0.00	0.00			
31	40.346983	-80.263997	7.6	W-PA-170215-CBA-002	-	Wetland	PEM	OTHER	22.23	-	-	-	1098.09	0.00	1098.09	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	20 of 39	SS033
	40.348968	-80.265706		W-PA-170214-CBA-005 Crossing #1	-	Wetland	PEM	OTHER	45.97	-	-	-	2217.18	269.90	2487.08	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.			

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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				
32	40.349083	-80.265752	7.8	S-PA-170214-CBA-006	UNT to Robinson Run	Stream	Intermittent	WWF	0.00	4.44	52.46	0.00	232.92	0.00	232.92	Permanent Right-of-Way: This stream is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the stream will be restored to original contours.	GP-5, GP-8	21 of 39	SS034
						Floodway	-	-	33.26	-	-	-	1573.34	175.47					
	40.349089	-80.265863		S-PA-170214-CBA-005		Stream	Intermittent	WWF	5.50	5.50	53.67	4.86	295.21	26.71	321.92	Pipeline: These resources are directly crossed the pipeline route. 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. In the wetland, 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, the segregated topsoil will be replaced and the stream, wetland, and upland floodway will be restored to original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream, wetland, and upland floodway to allow for construction equipment crossing. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.			
						Floodway	-	-	113.94	-	-	-	5636.44	4604.12					
40.349175	-80.265951	W-PA-170214-CBA-005 Crossing #2	-	Wetland	PFO	OTHER	41.14	-	-	-	-	2160.77	67.35	2228.12					
33	40.350631	-80.271245	8.1	S-PA-170215-CBA-004	UNT to Robinson Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	24.00	NA	Temporary Workspace: The upland floodway of this stream is located in TWS. Following construction, the upland floodway will be restored to its original contours.	GP-5, GP-8	21 of 39	SS035

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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				
34	40.351660	-80.271324	8.2	W-PA-151208-MRK-006	-	Wetland	PEM	OTHER	48.72	-	-	-	2829.11	1579.82	4408.93	Pipeline: These resources are directly crossed the pipeline route. 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. In the wetland, 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, the segregated topsoil will be replaced and the stream, wetland, and upland floodway will be restored to original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream, wetland, and upland floodway to allow for construction equipment crossing. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	21 of 39	SS036
				S-PA-151109-MRK-003	UNT to Robinson Run	Stream	Perennial	WWF	6.00	6.00	51.04	52.92	306.25	317.49	623.75				
						Floodway	-	-	108.08	-	-	5454.93	4530.42						
35	40.359617	-80.271083	8.9	S-PA-151012-MRK-001	Robinson Run	Stream	Perennial	WWF	9.50	9.50	56.14	0.00	10.09	0.00	0.00	HDD: This resource will be crossed via HDD HOU-03. The pipe will be approximately 40 feet below stream. There will be no above-ground disturbance.	GP-5	23 of 39	SS037
						Floodway		-	-	247.96	-	-	263.46	0.00					
36	40.360531	-80.270061	9.0	W-PA-151012-MRK-002	-	Wetland	PEM	OTHER	65.76	-	-	-	3287.81	0.00	3287.81	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	23&24 of 39	SS038

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft) ⁴	Area within Temporary Workspace (ft) ⁴	Area within ROW (ft) ⁴				
37	40.368311	-80.271902	9.7	W-PA-151012-MRK-003	-	Wetland	PEM	OTHER	31.66	-	-	-	1067.64	0.00	1067.64	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	25 of 39	SS039
38	40.374230	-80.274986	10.2	W-PA-151203-MRK-001	-	Wetland	PEM	-	0.00	-	-	-	643.70	0.00	643.70	Permanent Right-of-Way: This wetland is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	28 of 39	SS040
39	40.379294	40.379294	10.6	S-PA-151203-MRK-001	UNT to Robinson Run	Stream	Intermittent	WWF	2.50	2.50	123.06	181.81	307.66	454.52	762.18	Pipeline: This stream is directly crossed the pipeline route. 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	29 of 39	SS041
					Floodway	-	-	270.19	-	-	-	10138.53	20575.79						

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft) ⁴	Area within Temporary Workspace (ft) ⁴	Area within ROW (ft) ⁴				
40	40.385967	-80.277010	11.1	W-PA-151203-MRK-005	-	Wetland	PEM	OTHER	36.53	-	-	-	949.04	1263.73	2212.77	Pipeline: This wetland is directly crossed by the pipeline route. A trench will be dug to place the pipe a minimum of four feet below the wetland and trench plugs installed. The topsoil will be segregated during construction. This wetland is also located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, segregated topsoil will be replaced and the wetland will be restored to original contours. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	32 of 39	SS042
41	40.386263	-80.277401	11.1	W-PA-151203-MRK-006	-	Wetland	PUB	OTHER	0.00	-	-	-	5.06	455.65	460.71	Permanent Right-of-Way: This wetland is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the wetland will be restored to original contours.	GP-5, GP-8	32 of 39	SS042
42	40.387558	-80.286183	11.4	S-PA-170412-RCL-002	UNT to Robinson Run	Floodway	Ephemeral	-	131.12	-	-	-	0.00	2610.11	NA	HOU-TAR-16: The upland floodway will be impacted by use of an existing access road. Once construction is complete, the upland floodway will be restored to pre-construction conditions.	GP-8	32 of 39	SS043
43	40.398202	-80.278240	12.1	S-PA-170105-MRK-001	UNT to Little Raccoon Run	Floodway	Ephemeral	-	0.00	-	-	-	705.96	0.00	NA	Permanent Right-of-Way: This upland floodway is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the upland floodway will be restored to original contours.	GP-5, GP-8	34&35 of 39	SS044
44	40.404352	-80.279492	12.6	S-PA-161130-CBA-001	UNT to Little Raccoon Run	Stream	Ephemeral	WWF	6.00	6.00	62.37	27.61	374.24	165.63	539.87	Pipeline: This stream is directly crossed the pipeline route. 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	36 of 39	SS045
						Floodway		-	112.81	-	-	-	5773.27	3096.69					

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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				
45	40.408131	-80.281437	13.0	S-PA-170105-MRK-002	UNT to Little Raccoon Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	1988.40	NA	Temporary Workspace: The upland floodway of this stream is located in TWS. Following construction, the upland floodway will be restored to its original contours.	GP-5, GP-8	37 of 39	SS046
46	40.416448	-80.287835	13.8	S-PA-170113-MRK-005	UNT to Little Raccoon Run	Stream	Perennial	WWF	0.00	7.50	19.85	0.00	148.91	0.00	148.91	Permanent Right-of-Way: This stream is located within the PROW. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross. Following construction, the stream will be restored to original contours.	JPA	39 of 39	SS047/SS048
						Floodway													
	Stream	Perennial		WWF		7.00	7.00	52.18	55.68	365.28	389.76	755.04	Pipeline: These resources are directly crossed the pipeline route. 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. In the wetland, 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, the segregated topsoil will be replaced and the stream, wetland, and upland floodways will be restored to original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream, wetland, and upland floodway to allow for construction equipment crossing. The wetland within the PROW will be maintained in perpetuity as an herbaceous wetland.						
	Floodway													-		111.57			
40.416406	-80.287872	S-PA-170113-MRK-004	-	Wetland	PEM	OTHER	0.00	-	-	-	-	1988.29	4752.54	6740.83					
47	40.416866	-80.287994	13.8	S-PA-170207-MRK-005	UNT to Little Raccoon Run	Stream	Intermittent	WWF	0.00	4.00	0.00	34.48	0.00	137.93	137.93	Temporary Workspace: This stream is located in TWS. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed a timber mat will be placed over it to allow construction equipment to cross.	GP-5, GP-8	39 of 39	SS049
						Floodway													

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) ³	Stream Width	Length of Stream within Permanent Right-of-Way (ft)	Length of Stream within Temporary Workspace (ft)	DEP Impact		Corps Impact	Crossing Type	PADEP 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				
48	40.418008	-80.288018	13.9	S-PA-170113-MRK-006	UNT to Little Raccoon Run	Stream	Intermittent	WWF	3.00	3.00	52.66	33.09	157.98	99.26	257.24	Pipeline: This stream is directly crossed the pipeline route. 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	39 of 39	SS050
						Floodway		-	233.14	-	-	-	12527.78	3518.74					
Houston to Junction Pipeline, Washington County, Pennsylvania Totals						Stream			175.25	191.89	1908.91	1059.71	8,741.13	6,741.12	15434.97				
						Floodway			4802.47	0.00	0.00	0.00	166,570.00	123,818.21	NA				
						Wetland			726.76	0.00	0.00	0.00	33,366.75	20,403.39	53770.14				

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 Water

² Title 25, PA Code, Chapter 93 Designation WWF - Warm Water Fishes, 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.

Changes since 9/15/17 Permit Submission