

**TABLE 1
AQUATIC RESOURCES IMPACT TABLE
FALCON ETHANE PIPELINE SYSTEM
BEAVER COUNTY, PENNSYLVANIA IMPACTS**

REVISED JULY 2018

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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									
Beaver County, Pennsylvania																		
Scio to Junction Pipeline																		
1	40.582715	-80.518214	41.3	S-PA-151013-JLK-004	UNT to North Fork Tomlinson Run	Stream	11.59	50.03	61.62	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	1 of 54	SS089					
						Floodway	3308.46	2952.69										
	40.582668	-80.518155		W-PA-151013-JLK-005 Crossing #1	-	Wetland	1521.53	1618.20	3139.73	Pipeline/Permanent ROW: 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. Additionally, 10-ft-wide timber mats will be placed on the wetland in the travel lanes to allow for equipment crossing. Once construction is complete, the mats will be removed.								
	40.582833	-80.517656		W-PA-151013-JLK-005 Crossing #2	-	Wetland	2771.23	1623.96	4395.19									
	40.582913	-80.517412		S-PA-151013-JLK-002	UNT to North Fork Tomlinson Run	Stream	277.74	726.26	1003.99	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland 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.								
						Floodway	9056.75	13437.60										
	2	40.583437		-80.515827	41.4	S-PA-151014-JLK-002	UNT to North Fork Tomlinson Run	Stream	124.67	146.59				271.26	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	1 of 54	SS090
								Floodway	4311.81	5081.73								
3	40.583865	-80.515053	41.5	S-PA-151014-JLK-001	UNT to North Fork Tomlinson Run	Floodway	0.00	5359.54	NA	Temporary Workspace: The upland floodway is located within the TWS. Following construction it will be restored to original conditions. An erosion control blanket will be placed over this area to aid in stabilization. Vegetation will be permitted to regrow to previous conditions.	GP-5, GP-8	1 of 54	SS091					

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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				
4	40.584895	-80.511564	41.7	S-PA-151014-JLK-003	UNT to North Fork Tomlinson Run	Floodway	1103.25	2429.75	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	1 of 54	SS092
5	40.587574	-80.498565	42.4	S-PA-151015-JLK-001	UNT to Mill Creek	Stream	127.77	138.06	265.83	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. For the wetland crossing, 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. For all of the crossings, 10-ft-wide timber mats will be installed across the resources in the travel lanes to facilitate equipment crossings. Following construction, the mats will be removed.	GP-5, GP-8	2&3 of 54	SS093
				Floodway		5233.94	5898.37						
	W-PA-151015-JLK-001	-		Wetland	3437.26	1839.00	5276.26						
	S-PA-151015-JLK-002	UNT to Mill Creek		Stream	159.24	74.09	233.33						
Floodway			5698.54	2152.05									
6	40.589177	-80.489417	42.9	S-PA-160606-CBA-001	UNT to Mill Creek	Stream	20.59	59.26	79.85	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	4 of 54	SS094
						Floodway	4766.83	2934.07		Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
	S-PA-160606-CBA-002	Stream		0.00		55.81	55.81	Temporary Workspace: Dry stream crossing methods will be employed here and 10-ft-wide timber mats will be placed if deemed necessary. Mats will be removed following construction and the stream will be restored to original contours following construction.					
		Floodway		2551.62		1389.77		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. 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. A trench will be dug through the upland floodway. Following construction the area will be restored to original contours. Erosion control blankets will be installed in this area to aid in revegetation and stabilization.					
	40.589129	-80.489187		W-PA-160623-NLS-001	-	Wetland	Wetland	3420.21	0.00	3420.21			

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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				
7	40.589561	-80.482566	43.3	S-PA-160526-MRK-001	UNT to Mill Creek	Stream	249.95	66.44	316.39	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	4&5 of 54	SS095/ SS096/ SS097
				Floodway		10417.01	4034.88						
				Floodway		179.11	7881.29						
8	40.589889	-80.479633	43.4	S-PA-160316-CBA-001 Crossing #2	UNT to Mill Creek	Stream	392.80	399.51	792.31	Pipeline: 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. Also, during construction the portion of the wetland and stream 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. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth	GP-5, GP-8	5 of 54	SS098/ SS099
						Floodway	6666.76	19425.53					
	40.590103	-80.478831	43.5	W-PA-160503-MRK-006	-	Wetland	2609.85	4478.67	7088.52				
				W-PA-160517-MRK-001	-	Wetland	68.28	1570.65	1638.93				
40.590046	-80.478429	43.5	W-PA-160517-MRK-001	-	Wetland	68.28	1570.65	1638.93	Permanent Right-of-Way: The topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours and it will be maintained as PEM in the PROW.				
										Wetland	68.28	1570.65	1638.93
9	40.590118	-80.477667	43.5	S-PA-160316-CBA-002	Mill Creek	Stream	850.02	0.00	850.02	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 contour.	GP-5, GP-8	5 of 54	SS100
						Floodway	5520.90	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				
10	40.589962	-80.474310	43.7	S-PA-160426-MRK-003	UNT to Mill Creek	Stream	328.54	21.91	350.45	Pipeline: 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 its original contours. Additionally, a portion of the bore pit will be located within the wetland. This area will be restored following construction. Ten-ft.-wide timber mats will be placed through the wetland in the travel lane to facilitate equipment crossing. Erosion control blankets will be placed in the upland floodway to facilitate stability and vegetation regrowth following site restoration.	GP-5, GP-8	5 of 54	SS101
						Floodway	11444.43	10458.57					
				W-PA-160517-MRK-002	-	Wetland	9783.38	4159.69	13943.07				
11	40.592902	-80.472766	44.0	S-PA-170222-MRK-001	UNT to Mill Creek	Stream	150.93	79.64	230.57	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	5&6 of 54	SS102
						Floodway	7838.22	2804.28					
12	40.593640	-80.472427	44.1	S-PA-170222-MRK-002	UNT to Mill Creek	Stream	392.49	151.36	543.85	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	5&6 of 54	SS103
						Floodway	6777.62	2952.69					
13	40.594480	-80.470891	44.2	W-PA-170222-MRK-001	-	Wetland	17.27	560.89	578.15	Permanent Right-of-Way: A small portion of this wetland is located within the PROW and the remaining portion is located within the TROW. During construction, topsoil will be segregated. Following construction the wetland will be restored. The portion of the wetland located within the PROW will be maintained as PEM.	GP-5, GP-8	6 of 54	SS104
14	40.594473	-80.470095	44.2	W-PA-170222-MRK-002	-	Wetland	904.27	0.68	904.96	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. 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	6 of 54	SS105

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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				
15	40.595943	-80.461436	44.7	W-PA-160317-MRK-005	-	Wetland	2428.19	846.83	3275.02	Pipeline: 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. Also, , during construction the portion of the wetland and stream 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. Erosion control blankets will be placed on the upland floodway to help stabilize the area during revegetation.	GP-5, GP-8	6&7 of 54	SS106
	40.596063	-80.461163		S-PA-160317-MRK-003	UNT to Mill Creek	Stream	406.03	131.06	537.09				
						Floodway	8628.68	3586.16					
16	40.599858	-80.443624	45.7	S-PA-160316-MRK-002	Peggs Run	Stream	684.77	267.13	951.90	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	8 of 54	SS107
						Floodway	7067.03	3372.08					
17	40.600623	-80.437501	46.1	S-PA-161122-CMS-001	UNT to Peggs Run	Floodway	0.00	3072.91	NA	Temporary Workspace: The upland floodway is located within the TWS. Following construction it will be restored to original conditions. An erosion control blanket will be placed over this area to aid in stabilization and vegetation regrowth.	GP-5, GP-8	9 of 54	SS108
18	40.601849	-80.419001	47.0	S-PA-170413-JLK-001	UNT to Peggs Run	Stream	0.00	299.67	299.67	SCIO-TAR-35: There is an existing ford at this stream crossing. It is an old logging road crossing. 10-ft wide timber mats will be placed in order to facilitate equipment crossing. Following construction the mats will be removed.	GP-8	10 of 54	SS109
						Floodway	0.00	2909.31					
19	40.602908	-80.419374	47.0	S-PA-161122-CMS-005	UNT to Peggs Run	Stream	1105.57	500.62	1606.19	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	10 of 54	SS110
						Floodway	6630.57	3503.70					

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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	40.611243	-80.410508	47.9	W-PA-161202-MRK-002	-	Wetland	2871.35	349.59	3220.94	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 SCIO-PAR-08: A portion of this wetland will be permanently filled due to the construction of the permanent access road. This is a fill. Meter Site: A portion of the wetland will be permanently filled due to the construction of the meter site pad. This is a fill.	GP-5, GP-8	12 of 54	SS111
							0.00	0.00	0.00				
							0.00	0.00					
21	40.611696	-80.410991	48.0	S-PA-161221-MRK-001	UNT to Haden Run	Stream	0.00	27.57	27.57	Temporary Workspace: Work on the stream will be conducted in the dry. Following construction both the stream and upland floodway will be restored to original contours. Erosion control blankets will be placed on the floodway to facilitate vegetation growth and stability.	GP-5, GP-8	12 of 54	SS112
						Floodway	0.00	4212.56					
22	40.612635	-80.410170	48.1	S-PA-161221-MRK-001	UNT to Haden Run	Floodway	1163.91	0.00	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	13 of 54	SS113
	40.612912	-80.409904		S-PA-161220-MRK-002		Stream	380.23	107.36	487.60	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.			
				Floodway		4238.40	1277.59						
	40.613124	-80.409861		W-PA-161202-MRK-001		Wetland	1532.46	3092.01	4624.47	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland 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.			
				S-PA-161202-MRK-001		Stream	343.05	259.60	602.65	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 stream will be restored to its 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 mat will be removed.			
	40.613018	-80.409726		S-PA-161202-MRK-002		Floodway	6384.81	3882.14					
						Stream	0.00	29.80	29.80	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.			
	Floodway	0.00		54.31									

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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				
23	40.615966	-80.405711	48.4	S-PA-151106-MRK-003	UNT to Haden Run	Stream	129.37	67.93	197.30	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. For the wetland, the trees will be cut, a trench will be dug in the wetland and the topsoil will be segregated. 10-ft-wide timber mats will be placed over the streams to allow equipment to cross. Following construction the mats will be removed.	GP-5, GP-8	13 of 54	SS114
				Floodway		7079.40	4229.19						
	40.616199	-80.405364		S-PA-151106-MRK-001		Stream	104.87	42.53	147.41				
				Floodway		5618.13	3252.51						
24	40.616495	-80.397279	48.8	W-PA-151105-MRK-002	-	Wetland	159.06	0.00	0.00	HDD: This wetland will be crossed via HDD at a depth of approximately 50 feet below ground surface. There will be no above-ground disturbance.	GP-5	14 of 54	SS115
25	40.616899	-80.392036	49.1	S-PA-151104-MRK-001	UNT to Service Creek	Stream	287.37	148.33	435.70	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	15 of 54	SS116
						Floodway	5698.95	3109.42					
26	40.616757	-80.388007	49.3	S-PA-151104-MRK-002	UNT to Service Creek	Stream	335.75	114.65	450.39	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	15 of 54	SS117
				Floodway		6910.21	3065.20						
	40.616816	-80.388172		W-PA-160111-JLK-001	-	Wetland	931.85	2024.58	2956.43	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Additionally, during construction the portion of the wetland 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.			

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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				
27	40.616680	-80.386047	49.4	W-PA-151104-MRK-002	-	Wetland	1493.26	761.67	2254.93	Pipeline: 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 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	15 of 54	SS118
	40.616738	-80.385930		S-PA-160111-JLK-002	UNT to Service Creek	Floodway	253.44	1961.59	NA				
28	40.616502	-80.381215	49.7	S-PA-160111-JLK-001	UNT to Service Creek	Floodway	135.14	3513.30	NA	Permanent Right-of-Way: the upland floodway is located within the permanent ROW and TWS. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous and any land located within TWS will be permitted to regrow to previous conditions.	GP-5, GP-8	16 of 54	SS119
29	40.616279	-80.378329	49.9	S-PA-151104-MRK-005	UNT to Service Creek	Stream	396.78	195.87	592.65	Pipeline: 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 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. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth	GP-5, GP-8	16 of 54	SS120
						Floodway	8934.27	3439.97					
				W-PA-151104-MRK-003	-	Wetland	3021.24	2099.12	5120.36				
30	40.616167	-80.376452	50.0	S-PA-151104-MRK-006	UNT to Service Creek	Stream	477.54	172.13	649.68	Pipeline: 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, the shrubs will be cleared, 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. Shrubs will be permitted to grow in the TWS. Additionally, during construction the portion of the wetland and stream located	GP-5, GP-8	16 of 54	SS121
						Floodway	6596.36	3121.86					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
				W-PA-160404-MRK-001	-	Wetland	2543.94	1039.25	3583.19	during construction the portion of the wetland and stream 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. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.			
31	40.617245	-80.373263	50.2	S-PA-151104-MRK-008C	UNT to Service Creek	Stream	201.43	199.62	401.05	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	16 of 54	SS122
						Floodway	5670.32	3628.05					
32	40.617531	-80.372221	50.2	S-PA-170510-CBA-001	UNT to Service Creek	Floodway	4128.56	3252.48	NA	Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.	GP-5, GP-8	16 of 54	SS123
33	40.618246	-80.367990	50.4	S-PA-151105-MRK-002	UNT to Raccoon Creek	Stream	502.62	247.54	750.16	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS124
		Floodway		5917.81		3123.06							
	40.618297	-80.368161		W-PA-161109-MRK-002	-	Wetland	65.41	0.00	65.41	Permanent Right-of-Way: The topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours and it will be maintained as PEM in the PROW.			
34	40.617192	-80.367008	50.6	S-PA-151105-MRK-002	UNT to Raccoon Creek	Floodway	0.00	7203.19	NA	Temporary Workspace: the upland floodway is located in the TWS. Following construction it will be returned to original contours and permitted to regrow. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS125
35	40.619496	-80.360630	51.0	S-PA-151120-JLK-001	Gums Run	Stream	595.69	308.44	904.13	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 trenches will be dug in the dry stream beds 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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	17 of 54	SS126
						Floodway	6417.79	3291.79					
	40.619524	-80.360590		S-PA-151120-JLK-002	UNT to Gums Run	Stream	375.93	136.14	512.07				
						Floodway	2252.09	3080.92					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
36	40.620961	-80.353831	51.3	S-PA-151120-JLK-004	UNT to Gums Run	Stream	225.67	104.43	330.10	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	18 of 54	SS127
						Floodway	5742.45	2717.88					
37	40.620954	-80.353255	51.4	S-PA-151120-JLK-005	UNT to Gums Run	Floodway	2384.42	0.00	NA	Pipeline: A trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.	GP-5, GP-8	18 of 54	SS128
Scio to Junction Pipeline Beaver County, Pennsylvania Totals						Stream	9,638.99	5,329.41	14,968.39				
						Floodway	192,727.93	167,053.97	NA				
						Wetland	40,415.72	27,757.37	68,014.03				

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
Beaver County, Pennsylvania													
Junction to Monaca Pipeline													
38	40.621775	-80.349548	0.1	W-PA-160503-MRK-005	-	Wetland	-	0.00	0.00	HOU-TAR-50 Removed	NA	18 of 54	SS129
39	40.622042	-80.351479	0.1	W-PA-160503-MRK-004	-	Wetland	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS130
40	40.622139	-80.352340	0.1	W-PA-160503-MRK-002	-	Wetland	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS131
41	40.623058	-80.355470	0.1	W-PA-160503-MRK-001	-	Wetland	-	0.00	0.00	HOU-TAR-50 Removed	NA	18&19 of 54	SS132
42	40.621845	-80.348592	0.1	S-PA-151123-JLK-001		Floodway	-	127.16	NA	Temporary Workspace: the upland floodway is located within temporary workspace. Following construction this area will be restored to original contours.	GP-5, GP-8	18&19 of 54	SS133
43	40.624711	-80.347823	0.3	S-PA-151123-JLK-003	UNT to Raccoon Creek	Stream	7.56	0.00	0.00	HDD: The stream will be crossed via HDD at a depth ranging from 25 to 27 feet. There will be no above-ground disturbance. HOU-TAR-51; Culvert: There are culverts at the existing access road here. However, the rock construction entrance will temporarily impact a portion of the upland floodway. Following construction the rock will be removed.	GP-5, GP-8	19 of 54	SS134
						Floodway	145.29	0.00					
						Stream	0.00	0.00					
						Floodway	0.00	2841.61					
44	40.626025	-80.347551	0.4	W-PA-151123-JLK-001	-	Wetland	514.34	5591.94	6106.28	Permanent Right-of-Way: The wetland topsoil will be segregated during construction. Following construction it will be returned and the wetland will be restored to original contours. Any area located within the PROW will be maintained as PEM. Additionally, during construction the portion of the wetland 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	20 of 54	SS135
45	40.627651	-80.348344	0.5	S-PA-151123-JLK-004	UNT to Raccoon Creek	Stream	59.98	90.32	150.30	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	20 of 54	SS136
						Floodway	5335.21	2977.55					
46	40.635954	-80.350112	1.1	S-PA-160408-MRK-003	UNT to Fishpot Run	Stream	0.00	359.66	359.66	Temporary Workspace: The stream is located in TWS. 10-ft-wide timber mats will be placed over the stream to allow for equipment crossing. Once construction is complete, the mats will be removed.	GP-5, GP-8	22 of 54	SS137
						Floodway	3973.92	7614.79		Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
47	40.636966	-80.351248	1.2	S-PA-160408-MRK-002	Fishpot Run	Stream	1177.22	978.42	2155.64	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	22 of 54	SS138
						Floodway	10249.94	6691.65					
	40.637093	-80.351457		W-PA-160408-MRK-002	-	Wetland	0.00	580.91	580.91	Temporary Workspace: 10-foot-wide timber mats will be placed across the stream and wetland in the travel lane to allow for equipment access. Following construction the mats will be removed. Any displaced soils will be returned to their original contours.			
	40.637126	-80.351579		S-PA-160408-MRK-001	UNT to Fishpot Run	Stream	0.00	52.87	52.87	Permanent Right-of-Way: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
Floodway			640.22			8589.45							
40.636948	-80.352105	S-PA-160408-MRK-006		Floodway	4596.63	0.00	NA	Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.					
48	40.639868	-80.353823	1.6	S-PA-160411-CBA-002	UNT to Fishpot Run	Floodway	0.00	2052.79	NA	Temporary Workspace: temporary construction work/travel will be conducted in the upland floodway. Following construction, this area will be returned to original contours. Erosion control blankets will be placed in this area to facilitate stability and aid in vegetation regrowth.	GP-5, GP-8	23 of 54	SS139
49	40.640089	-80.354008	1.6	S-PA-160411-CBA-003	UNT to Fishpot Run	Floodway	0.00	57.59	NA	Temporary Workspace: temporary construction work/travel will be conducted in the upland floodway. Following construction, this area will be returned to original contours. Erosion control blankets will be placed in this area to facilitate stability and aid in vegetation regrowth.	GP-5, GP-8	23 of 54	SS140

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
							Area within Permanent Right-of-Way (ft²) ⁴	Area within Temporary Workspace (ft²) ⁴	Area within ROW (ft²) ⁴				
50	40.640344	-80.354566	1.6	W-PA-160411-CBA-002	-	Wetland	1388.91	1580.74	2969.66	Pipeline: 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 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	23 of 54	SS141/ SS142
	40.640888	-80.354927		W-PA-160411-CBA-004	-	Wetland	0.00	134.48	134.48	Temporary Workspace: If soils need to be displaced for extra temporary workspace, they will be segregated and returned to original contours following construction. Timber mats will be placed over the wetland if equipment needs to traverse the wetland.			
	40.641270	-80.356135	1.7	W-PA-160425-MRK-001	-	Wetland	2081.56	2179.76	4261.33	Pipeline: 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.			
	40.641447	-80.356155		S-PA-160411-CBA-002	UNT to Fishpot Run	Stream	176.64	255.95	432.59	Additionally,, during construction the portion of the wetland and stream 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. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.			
					Floodway	17317.77	22187.43						
51	40.643205	-80.348160	1.9	W-PA-160728-NLS-001A	-	Wetland	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24&25 of 54	SS143
52	40.642805	-80.347072	1.9	W-PA-160728-NLS-001B	-	Wetland	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24&25 of 54	SS144
53	40.642174	-80.345716	1.9	W-PA-160728-NLS-001C	-	Wetland	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS145
54	40.642082	-80.345193	1.9	W-PA-160728-NLS-001D	-	Wetland	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS145
55	40.643033	-80.341899	1.9	W-PA-160728-NLS-001E	-	Wetland	0.00	0.00	0.00	HOU-TAR-53 Removed	NA	24 of 54	SS146

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)							
							Area within Permanent Right-of-Way (ft²) ⁴	Area within Temporary Workspace (ft²) ⁴	Area within ROW (ft²) ⁴											
56	40.645380	-80.354051	2.0	S-PA-160418-MRK-002	UNT to Raccoon Creek	Stream	380.07	448.19	828.26	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 stream to allow for construction equipment crossing. Following construction the timber mats will be removed. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	25 of 54	SS147							
						Floodway	6739.02	7537.37												
	40.645451	-80.354043		S-PA-160425-MRK-001	UNT to Raccoon Creek	Stream	256.15	306.56	562.71											
						Floodway	608.85	1708.30												
	40.645447	-80.353937		S-PA-160418-MRK-002	UNT to Raccoon Creek	Stream	0.00	93.85	93.85					HOU-TAR-54: the temporary access road is located along the edge of the LOD. The stream will be matted with 10-foot-wide timber mats to facilitate equipment crossing.						
						Floodway	0.00	1361.23												
57	40.645954	-80.353986	2.1	S-PA-160418-MRK-003	UNT to Raccoon Creek	Stream	256.45	54.36	310.81	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 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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	25 of 54	SS148							
						Floodway	5531.97	5602.14												
	40.645957	-80.353847		S-PA-160418-MRK-003	UNT to Raccoon Creek	Stream	0.00	101.27	101.27						HOU-TAR-54: the temporary access road is located along the edge of the LOD. The stream will be matted with 10-foot-wide timber mats to facilitate equipment crossing.					
						Floodway	0.00	2246.85												
	58	40.649112		-80.349718	2.4	S-PA-160426-MRK-001	UNT to Raccoon Creek	Stream	251.04					29.63		280.67	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 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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	26 of 54	SS149
								Floodway	5939.09					4226.63						
Stream			0.00					104.13	104.13											
Floodway			0.00					2158.93												
59	40.648950	-80.348887	2.4	W-PA-160412-CBA-004	-	Wetland	0.00	36.80	36.80	HOU-TAR-54: the temporary access road is located along the edge of the LOD. A small portion of the PSS wetland will be mowed and timber mats will be placed to allow equipment crossing. Following construction the mats will be removed and the wetland will be allowed to regrow.	GP-8	26 of 54	SS150							

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
60	40.651572	-80.346463	2.6	W-PA-160412-CBA-001	-	Wetland	89.49	0.00	89.49	Permanent Right-of-Way: the shrubs will be cut and the wetland soil will be segregated during construction. Following construction the topsoil will be replaced. The impacted portion of wetland will be maintained as PEM.	GP-5, GP-8	27 of 54	SS151
61	40.652412	-80.346269	2.7	W-PA-160412-CBA-002	-	Wetland	1524.04	4611.42	6135.46	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. Additionally, during construction the portion of the wetland 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	27 of 54	SS152
62	40.654090	-80.345386	2.8	W-PA-160504-CBA-001	-	Wetland	29.03	0.00	0.00	HDD: This wetland will be crossed via HDD at a depth of approximately 25 feet below ground surface. There will be no above-ground disturbance.	GP-5	27 of 54	SS153
63	40.654480	-80.344744	2.9	S-PA-151015-MRK-005	Raccoon Creek	Stream Floodway	222.16 219.13	0.00 0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 38 feet. There will be no above-ground disturbance.	GP-5	27 of 54	SS154
63A	40.654838	-80.344155	2.9	NWI-1	-	Wetland	134.45	0.00	0.00	HDD - this was not delineated due to dangerous conditions	GP-5	27 of 54	SS154
64	40.657330	-80.340380	3.2	S-PA-160504-CBA-001	UNT to Ohio River	Stream	134.90	516.67	651.58	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	28 of 54	SS155
						Floodway	6499.23	15677.80					
Junction to Monaca Pipeline Beaver County, Pennsylvania Totals						Stream	2922.17	3391.88	6084.34				
						Floodway	67796.28	93659.27	NA				
						Wetland	5761.83	14716.07	20314.42				
Beaver County, Pennsylvania													
Houston to Junction Pipeline													
65	40.518654	-80.309127	22.9	S-PA-151118-JLK-001	UNT to Raredon Run	Stream	4.87	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 38 feet. There will be no above-ground disturbance.	GP-5, GP-8	31 of 54	SS156
						Floodway	122.08	0.00					
66	40.520828	-80.312815	23.0	S-PA-170413-JLK-002	UNT to Raredon Run	Floodway	0.00	2301.35	NA	HOU-TAR-32: There is an existing farm road here. The road will be temporarily upgraded with rock and impact the upland floodway. Following construction the road will be restored to its original state.	GP-8	31 of 54	SS157
67	40.521877	-80.308989	23.1	W-PA-151124-JLK-003	-	Wetland	1419.77	247.79	1667.56	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. Additionally,, during construction the portion of the wetland 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	31&32 of 54	SS158

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
68	40.523201	-80.308972	23.2	S-PA-151124-JLK-008	UNT to Raredon Run	Stream	688.49	142.72	831.21	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	32 of 54	SS159
						Floodway	9622.22	6635.09					
69	40.533031	-80.308071	23.9	S-PA-151124-JLK-005	UNT to Raredon Run	Stream	417.31	218.30	635.61	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	34 of 54	SS160
						Floodway	5922.09	3090.56					
70	40.545338	-80.315734	24.9	S-PA-151014-MRK-002	UNT to Raccoon Creek	Stream	112.18	102.06	214.24	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	37 of 54	SS161
						Floodway	5942.61	11440.27					
71	40.547351	-80.315503	25.1	W-PA-151014-MRK-001	-	Wetland	0.00	648.09	648.09	Temporary Workspace: topsoil will be segregated if disturbed and returned to original contours following construction. 10-ft-wide timber mats will be placed if equipment needs to cross. Mats will be removed following construction.	GP-5, GP-8	37 of 54	SS162
72	40.547374	-80.315213	25.1	S-PA-151014-MRK-003	UNT to Raccoon Creek	Floodway	0.00	1633.16	NA	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.	GP-5, GP-8	37&38 of 54	SS162
73	40.550204	-80.316533	25.3	S-PA-151013-MRK-001	Raccoon Creek	Stream	38.60	0.00	0.00	HDD: This stream will be crossed via HDD at a depth of approximately 41feet. There will be no above-ground disturbance.	GP-5	38 of 54	SS163
						Floodway	318.73	0.00					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	DEP Impact		Corps Impact	Crossing Type	Permit Type	Plan View Page	Site Specific # (Req H)
							Area within Permanent Right-of-Way (ft²) ⁴	Area within Temporary Workspace (ft²) ⁴	Area within ROW (ft²) ⁴				
74	40.550898	-80.316768	25.3	S-PA-151013-MRK-002	UNT to Raccoon Creek	Stream	12.75	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 32 feet. There will be no above-ground disturbance.	JPA	38 of 54	SS164
				Floodway	239.44	0.00							
	40.551365	-80.316924		W-PA-151013-MRK-003	-	Wetland	9764.04	18065.62	27829.66	Pipeline (Partial HDD). The entrance pit for the HDD is located in this wetland. This area will be matted with timber mats as needed and will be restored to original contours following the HDD work. The beginning of the HDD is located in the wetland. The portion of the wetland with the HDD will not have above-ground disturbance. This wetland is greater than 10 acres.			
	40.551294	-80.316605			-		0.00	1004.77	1004.77	HOU-TAR-39: 10-ft-wide timber mats will be temporarily placed here to allow for temporary equipment access. Once construction is complete, the mats will be removed.			
75	40.552480	-80.317496	25.4	S-PA-151013-MRK-004	UNT to Raccoon Creek	Stream	0.00	0.00	0.00	*this has been determined to be an upland drainage swale; therefore, the impact has been removed	NA	39 of 54	SS165
						Floodway	0.00	0.00					
						Stream	0.00	0.00	0.00				
						Floodway	0.00	0.00					
						Floodway	0.00	0.00	NA				
	40.552298	-80.317273		S-PA-160426-MRK-002		Floodway	42.79	0.00	NA	Permanent Right-of-Way: the upland floodway is located within the PROW. Following construction the area will be restored to original contours. An erosion control blanket will be placed over the area to aid in stabilization. The land above the PROW will be maintained as herbaceous.	GP-5, GP-8		
76	40.557108	-80.320043	25.8	W-PA-151013-MRK-005	-	Wetland	1121.76	2277.80	3399.56	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. 10-ft.-wide timber mats will be placed over the wetland in the travel lane to allow for equipment crossing. Once the construction is complete, the mats will be removed.	GP-5, GP-8	40 of 54	SS166
77	40.564247	-80.319863	26.5	S-PA-160104-MRK-003	UNT to Raccoon Creek	Stream	0.00	0.54	0.54	Temporary Workspace: A very small portion of this stream is located in the TWS. A timber mat will be placed over the stream in the event that equipment needs to cross. The mat will be removed following construction.	GP-5, GP-8	41 of 54	SS167
						Floodway	2092.51	2015.75		Pipeline: a trench will be dug through the upland floodway. The area will be restored to original contours following construction. An erosion control blanket will be placed in this area to facilitate stability and aid in vegetation growth.			
78	40.566192	-80.319651	26.6	S-PA-160104-MRK-004	UNT to Raccoon Creek	Stream	213.38	164.71	378.09	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	42 of 54	SS168
						Floodway	5541.13	5359.91					
78A	40.566137	-80.318078	26.6	W-PA-160314-MRK-002	-	Wetland	0.00	288.38	288.38	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168A
78B	40.566065	-80.317492	26.6	W-PA-160315-MRK-003	-	Wetland	0.00	1146.21	1146.21	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168B

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
78C	40.566028	-80.316938	26.6	S-PA-160314-MRK-004	UNT to Raccoon Creek	Stream	0.00	114.56	114.56	HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	SS168C
						Floodway	0.00	4010.39		HOU-TAR-41.01 - temporary access road added	GP-8	42 of 54	
79	40.568797	-80.319143	26.8	S-PA-160322-MRK-004	UNT to Raccoon Creek	Stream	525.16	268.84	793.99	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	42 of 54	SS169
						Floodway	6292.34	3243.03					
80	40.569670	-80.319280	26.9	S-PA-160322-MRK-003	UNT to Raccoon Creek	Stream	94.22	40.06	134.27	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	42&43 of 54	SS170
						Floodway	6104.06	2911.49					
81	40.569991	-80.319330	26.9	S-PA-160322-MRK-002	UNT to Raccoon Creek	Stream	183.29	94.54	277.83	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	43 of 54	SS170
						Floodway	5383.18	2793.11					
82	40.573277	-80.319844	27.1	S-PA-160322-MRK-001	UNT to Raccoon Creek	Stream	150.73	60.04	210.76	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	43 of 54	SS171
						Floodway	5174.51	2096.07					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
83	40.577968	-80.324243	27.6	S-PA-170306-MRK-001	UNT to Service Creek	Floodway	411.07	7403.31	NA	Permanent Right-of-Way: the upland floodplain is located within the PROW and TWS. Following construction it will be returned to original contours. Areas above the PROW will be maintained as herbaceous. An erosion control blanket will be placed over this area to facilitate stability and vegetation regrowth.	GP-5, GP-8	44 of 54	SS172
84	40.578222	-80.325143	27.6	S-PA-151204-MRK-001	UNT to Service Creek	Floodway	0.00	2765.00	NA	Temporary Workspace: the upland floodway is located within the TWS. Following construction it will be restored to original conditions and allowed return to original vegetation conditions. An erosion control blanket will be placed over this area to aid in stabilization and vegetation regrowth.	GP-5, GP-8	44&45 of 54	SS173
85	40.578818	-80.326664	27.7	S-PA-151204-MRK-002	UNT to Service Creek	Stream	0.00	1212.32	1212.32	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	44&45 of 54	SS174
						Floodway	5014.96	21931.98					
86	40.581307	-80.326317	27.9	S-PA-151204-MRK-003	Service Creek	Stream	22.31	0.00	0.00	HDD: this stream will be crossed via HDD at a depth of approximately 27 feet. There will be no above-ground disturbance.	GP-5, GP-8	45 of 54	SS175
	Floodway	452.98				0.00							
	40.581364	-80.326134		Stream	0.00	601.48	601.48	HOU-TAR-43: there is an existing stream ford that the landowner utilizes at this location. 10-ft-wide timber mats will be placed here to allow for equipment access.					
40.581599	-80.326248	Floodway	0.00	3709.70									
87	40.581747	-80.326286	27.9	S-PA-151204-MRK-004 Crossing #2	UNT to Service Creek	Floodway	527.38	0.00	NA	Permanent Right-of-Way: a portion of the upland floodway is located within the PROW of the HDD. However, since it is an HDD, there will be no above-ground disturbance in this location.	GP-5, GP-8	45 of 54	SS176
							0.00	1383.36					
88	40.592013	-80.329802	28.8	S-PA-151216-MRK-004	UNT to Frames Run	Stream	374.34	190.11	564.45	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 trenches 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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS177
						Floodway	2903.76	2264.97					
	40.592044	-80.329820		S-PA-151216-MRK-003		Stream	429.47	240.96	670.43				
						Floodway	6019.95	3660.61					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
89	40.593146	-80.332698	28.9	S-PA-151216-MRK-005	UNT to Frames Run	Stream	436.84	222.92	659.76	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS178
						Floodway	5514.97	2902.36					
90	40.593628	-80.333865	29.0	S-PA-151216-MRK-006	UNT to Frames Run	Stream	233.39	196.50	429.90	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS179
						Floodway	6746.45	7021.20					
91	40.594550	-80.336215	29.2	S-PA-151216-MRK-009	UNT to Frames Run	Floodway	0.00	18.65	NA	Temporary Workspace: the upland floodway will be returned to original contours once construction is completed. Erosion control blankets will be placed to aid in revegetation and stability.	GP-5, GP-8	48 of 54	SS180
92	40.594651	-80.336856	29.2	S-PA-151216-MRK-007	UNT to Frames Run	Stream	366.53	549.59	916.12	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS180
						Floodway	13334.31	13821.04					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
93	40.595020	-80.337987	29.3	S-PA-151216-MRK-008	UNT to Frames Run	Stream	225.21	114.58	339.79	Pipeline: 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 -003 and stream 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. The upland floodway will be restored to original contours. An erosion control blanket will be placed in this area to facilitate stability and vegetation growth.	GP-5, GP-8	48 of 54	SS181
						Floodway	5235.40	2684.02					
	40.595011	-80.337975		W-PA-151216-MRK-002	-	Wetland	369.02	0.00	369.02				
	40.595091	-80.338083		W-PA-151216-MRK-003	-	Wetland	1156.93	1588.40	2745.33				
94	40.595683	-80.339174	29.3	S-PA-151209-MRK-006	UNT to Frames Run	Stream	204.69	97.24	301.93	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	48&49 of 54	SS182
						Floodway	5705.99	3312.94					
95	40.597043	-80.340610	29.5	S-PA-151209-MRK-005	UNT to Frames Run	Floodway	977.00	731.53	NA	Permanent Right-of-Way: the upland floodway will be returned to original contours following construction. It will be maintained as herbaceous above the PROW. Erosion control blankets will be installed to facilitate vegetation regrowth and slope stability.	GP-5, GP-8	49 of 54	SS183
96	40.598879	-80.343711	29.7	S-PA-151209-MRK-002	UNT to Frames Run	Stream	313.81	162.78	476.59	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	49 of 54	SS184
						Floodway	5534.68	3146.74					
	40.598986	-80.343752		S-PA-151209-MRK-004		Stream	170.57	0.00	170.57				
						Floodway	3600.72	2557.81					
97	40.601473	-80.346561	29.9	W-PA-151215-MRK-001	-	Wetland	128.56	0.00	128.56	Permanent Right-of-Way: wetland topsoil will be segregated during construction. Following construction the soil will be returned and the wetland will be restored to original contours. The wetland will be maintained as PEM within the PROW.	GP-5, GP-8	50 of 54	SS185
	40.601911	-80.346422	29.9	S-PA-151215-MRK-001 Crossing #1		Stream	0.00	81.15	81.15	HOU-TAR-47: 10-foot-wide timber mats will be laid across the stream for this temporary access road crossing. Following construction the mats will be removed.			
						Floodway	0.00	2177.23					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
98	40.602005	-80.346952	30.0	S-PA-151215-MRK-001 Crossing #2	UNT to Frames Run	Stream	265.12	52.89	318.00	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 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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	50 of 54	SS186/ SS187
						Floodway	6794.75	4143.53					
	40.602154	40.602154		S-PA-170322-CBA-001		Floodway	0.00	1675.58	NA				
99	40.604210	-80.347724	30.1	S-PA-151124-MRK-015	UNT to Gums Run	Stream	214.12	0.00	214.12	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	51 of 54	SS188
						Floodway	2427.56	929.98					
	40.604272	-80.347823		S-PA-151124-MRK-014		Stream	204.81	182.27	387.08	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 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. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.			
						Floodway	5570.18	4696.86					
100	40.604944	-80.348339	30.2	S-PA-151124-MRK-011	UNT to Gums Run	Stream	487.03	199.75	686.79	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	51 of 54	SS189
						Floodway	5866.63	2854.07					
	40.604875	-80.348485		S-PA-151124-MRK-012		Stream	0.00	7.18	7.18	Temporary Workspace: a small portion of this stream and floodway are located in the TWS. Any channel work will be conducted "in the dry" and if equipment crossing is necessary, 10-ft-wide timber mats will be placed across the channel. All areas will be restored to pre-construction conditions. Erosion control blankets will be installed to facilitate stability and vegetation regrowth.			
						Floodway	0.00	8.78					

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
101	40.605470	-80.348860	30.2	S-PA-151124-MRK-009	UNT to Gums Run	Stream	32.98	0.00	32.98	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.	GP-5, GP-8	51 of 54	SS190
						Floodway	1307.84	28.80					
	40.605521	-80.348822		S-PA-151124-MRK-008		Stream	44.15	0.00	44.15	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 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. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.			
						Floodway	5327.06	0.20					
102	40.606483	-80.349259	30.3	S-PA-151124-MRK-006	UNT to Gums Run	Stream	618.11	0.00	618.11	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 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. The upland floodways will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	51 of 54	SS191/SS192
						Floodway	11366.82	21.34					
	40.606462	-80.349330		S-PA-151124-MRK-005		Stream	14.17	0.00	14.17	Permanent Right-of-Way: 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. Following construction, the stream will be restored to its original contours.			
						40.606537	-80.349275	S-PA-151124-MRK-004					
Floodway	1071.98	1.32											

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	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				
103	40.613991	-80.349367	30.9	S-PA-151123-MRK-006	Gums Run	Stream	812.02	400.38	1212.40	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	53 of 54	SS193
						Floodway	6764.52	3767.56					
104	40.614976	-80.349193	30.9	S-PA-151123-MRK-005	UNT to Gums Run	Stream	335.02	265.17	600.19	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	53 of 54	SS194
						Floodway	5488.09	4343.05					
105	40.619749	-80.348372	31.3	S-PA-151123-MRK-001	UNT to Raccoon Creek	Stream	89.23	44.68	133.91	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. The upland floodway will also be restored to original conditions following construction. Erosion mats will be installed to facilitate stability and vegetation growth.	GP-5, GP-8	18&54 of 54	SS195
						Floodway	6045.47	3284.86					
Houston to Junction Pipeline, Beaver County, Pennsylvania Totals						Stream	7916.74	6028.32	13945.06				
						Floodway	167490.31	154778.57	NA				
						Wetland	13960.08	25267.06	37792.54				
Beaver County, Pennsylvania Totals						Stream	20,477.90	14,749.61	34997.79				
						Floodway	428,014.52	415,491.82	NA				
						Wetland	60,137.63	67,740.50	126120.99				

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

² Title 25, PA Code, Chapter 93 Designation CWF - Cold Water Fishes, WWF - Warm Water Fishes, HQ - High Quality, TS - Trout Stocked 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.

Changed since 9/15/17 Submission

