

Transcontinental Gas Pipe Line Company, LLC



NORTHEAST SUPPLY ENHANCEMENT PROJECT

REQUIREMENT H – PROJECT DESCRIPTION NARRATIVE AND AQUATIC RESOURCES IMPACT TABLE

PADEP CHAPTER 105/USACE SECTION 404 JOINT PERMIT APPLICATION



Transcontinental Gas Pipe Line Company, LLC Requirement H: Project Description Narrative

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A. GENERAL PROJECT DESCRIPTION

Transcontinental Gas Pipe Line Company, LLC (Transco) is submitting Joint Permit Application (JPA) for Project related impacts to Waters of the United States subject to jurisdiction under Section 404 of the Clean Water Act and subject to PA Code Title 25 Chapter 105. Transco is applying for an Individual Joint Permit with the United States Army Corps of Engineers (USACE) Baltimore District and Pennsylvania Department of Environmental Protection (PADEP) Chapter 105 Permit, respectively, for the Quarryville Loop. No Waters of the United States are to be impacted at the Compressor Station 200. Transco filed a Petition for Expedited Reissuance of Certificate Authority with the Federal Energy Regulatory Commission on May 29, 2025, requesting the reissuance of the certificate of public convenience and necessity, as amended, authorizing Transco to construct and operate the NESE Project.

Transcontinental Gas Pipe Line Company, LLC (Transco) is proposing the Northeast Supply Enhancement – Quarryville Loop (Project). The Project will take place in Drumore, East Drumore, and Eden Townships, Lancaster County, on the Holtwood, Wakefield, and Quarryville, Pennsylvania USGS 7.5 Minute Topographic Quadrangles.

The Quarryville Loop is proposed as part of the overall Northeast Supply Enhancement Project (NESE). The overall goal of NESE is to expand Transco's existing interstate natural gas pipeline system in Pennsylvania and New Jersey and its existing offshore natural gas pipeline system in New Jersey and New York waters. NESE will provide 400,000 dekatherms per day (Dth/d) of incremental capacity to National Grid at Transco's existing Rockaway Transfer Point located approximately three miles offshore of the Rockaway Peninsula in Queens Borough, New York.

The overall NESE project can be broken down into above ground facilities and pipeline loops. The above ground facilities include the construction of Compressor Station 206, modifications to the existing Compressor Station 200 and modifications to the existing Valve Site 195-5, Valve Site 195-10, and Valve Site 200-55 and the installation of two new valve sites. Compressor Station 206 will be comprised of a newly constructed 32,000 ISO (International Organization for Standardization) horsepower (hp) compressor station and related ancillary equipment in Somerset County, New Jersey. The addition of one electric motor-driven compressor (21,902 hp) and related equipment is proposed at Compressor Station 200, located in Chester County,

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Pennsylvania. At each of the existing valve sites listed above a new mainline valve, launcher/receiver, and tie-in facilities will be installed.

In addition to the above ground facilities discussed above, three pipeline loops are proposed. The proposed Raritan Bay Loop will consist of a newly constructed 26-inch-diameter pipeline located in New Jersey and New York. In New Jersey, approximately 0.16 miles of the loop will be installed onshore in conjunction with a 545-foot-long cathodic protection power cable. An additional 23.33 miles of the loop will be installed offshore from New Jersey to New York. The proposed Madison Loop will consist of 3.43 miles of newly constructed 26-inch diameter pipeline located in Middlesex County, New Jersey. The Quarryville Loop, proposed in Lancaster County, PA, is 10.17 miles of 42-inch diameter gas pipeline looping with Transco's existing mainline system.

A1. Quarryville Loop

Transco is submitting this application package for the 10.17-mile Quarryville Loop. The Quarryville Loop is designed for a maximum allowable operating pressure (MAOP) of 1,440 pounds per square inch gauge (psig). The Quarryville Loop will begin at MP1681.00 of the existing Transco Mainline. A majority of the Loop will be co-located within the existing pipeline right-of-way (ROW). However, Transco proposes to widen the existing ROW, as depicted on the plan drawings, to accommodate a 25-foot offset between pipeline centerlines. Construction of the Project will require installing a new mainline valve, launcher/receiver, and tie-in facility at existing valve sites at the beginning and end of the Loop. A new intermediate mainline valve will be installed at MP 1687.85. Cathodic protection will be installed perpendicular to the pipeline near MP 1684.21. Unavoidable impacts to aquatic resources are necessary to construct the proposed Quarryville Loop. Disturbed areas will be returned to pre-construction grade and contour upon completion of construction.

B. PROJECT PURPOSE

Transco proposes to construct, install, and operate the Quarryville Loop as part of the NESE. NESE is proposed to provide 400,000 Dth/d of incremental firm transportation capacity to National Grid from Compressor Station 195 through the Rockaway Transfer Point to supply National Grid's existing service territory to fulfill incremental supply needs. National Grid intends to utilize 100% of the Project's capacity to serve its retail customers across its existing service territory.

Transco's existing natural gas transportation system currently supplies natural gas to the New York City metropolitan region via National Grid's existing receipt points. The Quarryville Loop is proposed as part of the overall NESE Project and is a necessary component of the Project to meet the incremental supply needs outlined above. The Quarryville Loop will help to provide additional gas supply during periods of increased peak demand resulting from increased residential and commercial usage related to population and market growth and the phase-out of fuel oil in New York City.

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C. WATER DEPENDENCY

Based on the Project purpose and need presented above to increase capacity, the Quarryville Loop was sited, to the extent practicable, to avoid and minimize impacts to surrounding resources. Wetland and waterbody delineations for the Quarryville Loop Project area were conducted in 2016 with recent due diligence efforts to confirm the continued consistency of the aquatic resources in May 2025 (See Module S2: Resource Identification and Characterization). The investigation area typically extended a minimum of 200 feet on either side of the pipeline centerline and farther where additional construction workspaces, pipeline facilities, or access roads are proposed. During the delineation, 10 wetlands and 13 streams were identified and delineated within the investigation area for the Quarryville Loop. There are no Federal Emergency Management Agency (FEMA) Floodways located within the proposed Project area. However, a 50-foot floodway was delineated for each channel identified within the study area.

Pursuant to 25 Pa. Code § 105.18(a)(2) PADEP determines on a case-by-case basis whether a linear infrastructure project is water dependent. In addition, due to the linear nature of the 10.17-mile FERC regulated interstate pipeline project, the route determined by the Federal Energy Regulatory Commission (FERC), unavoidably crosses water resource impacts; therefore, PADEP would be justified in determining pursuant to its regulations that the Project is water dependent. In total, the project will cross thirteen streams and eleven wetlands. Dry-open cut methods will be utilized with the exception of one stream crossing where a conventional bore is proposed. Impacts associated with the Project are provided in the Aquatic Resources Impact Table provided in Requirement J: Environmental Assessment Form - Module S3: Identification and Description of Potential Project Impacts of this application.

D. PUBLIC HEALTH, SAFETY, AND THE ENVIRONMENT

The transportation of natural gas by pipeline may involve some risk to the public in the event of an incident and subsequent release of natural gas. Potential impacts on public safety from pipeline transportation of natural gas have been directly related to leaks or line breaks due to corrosion or equipment malfunctions or indirectly related to leaks or line breaks resulting from external forces not associated with pipeline operations (e.g., damage from third-party digging near buried pipeline sections). Natural forces also have the potential to damage the pipeline, valves, and meter stations. Damage from natural forces could result in an unintentional release, leak, or fire.

To minimize incidents, interstate natural gas pipeline facilities are designed, constructed, operated, and maintained in accordance with the U.S. Department of Transportation's (USDOT's) Pipeline and Hazardous Materials Safety Administration (PHMSA) Standard 49, Code of Federal Regulations (CFR) Part 192 (49 CFR Part 192). These federal safety standards, together with pipeline-integrity management programs and recent advances in pipeline manufacture, construction, and inspection techniques, minimize the potential for pipeline failure. These measures include improved public awareness initiatives, such as the "811" call system, "Call Before You Dig," and other One Call programs intended to reduce third-party damage to underground utilities, including buried high-pressure natural gas pipelines.

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Transco will follow standard operating procedures and regulations during installation of the Project. Safety is a common concern with respect to natural gas pipeline projects and associated compressor facilities. While the Commission has oversight in ensuring that aboveground facilities are safely constructed and installed, once the natural gas is flowing in the new facilities, the USDOT assumes oversight responsibility during the operational life of the pipeline and supporting appurtenances. The USDOT is also responsible for setting the federal safety standards for natural gas.

Transco will comply with, and in most cases exceed, the requirements of the USDOT, the Occupational Safety and Health Administration (OSHA), and other applicable regulations, standards, and guidelines for safety. This will include compliance with applicable design standards and codes, construction provisions as mandated, and operation procedures and standards, such as the Pennsylvania, One Call system.

The Quarryville Loop has been designed to minimize environmental impacts to the greatest extent practicable. Due to the linear nature of the Project, however, unavoidable impacts to wetlands and waterbodies are proposed. Many of the wetland and waterbody crossings are in agricultural areas and all crossings are adjacent to existing pipelines because the Project is being co-located to existing Transco pipelines.

Water Obstruction and Encroachment Permit Transcontinental Gas Pipe Line Company, LLC Northeast Supply Enhancement Project - Quarryville Loop

A Al . D	I	Table by Ossesine	
Aduatic Resource	Impact Summar	/ Table by Crossing	

											Α	quatic Resou	rce Impact S	ummary T	able by Cro	ssing														
							Chapter 93										Tempora	ary Impacts - Fees ¹⁴	Disturbance	Permaner	nt Impacts - E Fees ¹⁵)isturbance	Temporary	Impacts - LC	D ¹⁷ Perma	nent Impacts	42" Pipe ¹⁸			
Resource Crossing Number1	Latitude ²	Longitude ²	Type ³	Resource Name ⁴	Waterway Name ⁵	Stream Type or Cowardin Class ⁶	Designation or Existing Use for Streams and Chapter 105.17 Wetland Designation?	Floodway/Flooplain Data (50' FW, 100 year floodplain, FEMA Floodway) ⁸	Stocked Trout Waters ⁹	Natural Reproducing Trout Stream ⁹	Class A - Wild Trout Water ⁹	Crossing Window ¹⁰	Submerged Land License Agreement Required? ¹¹	Potential Bog Turtle Habitat Present? ¹²	Stream Length within Permanent Right-of- Way	Distance at Pipeline Crossing (feet) ¹³	Area (feet²) ¹⁶	Area (acres) ¹⁶	Total Impacts for this Location (acres)	Area (feet²) ¹⁶	Area (acres) ¹⁶	Total Impacts for this Location (acres)		Impa t Area Loc	otal cts for nis ation Area res) (feet ²) ¹	Area (acres) ¹⁶	Total Impacts for this Location (acres)	SPGP-6 Impact, excluding floodways (acres) ^{2 19}	Crossed by ²⁰	Crossing Method ²¹
Crossing 1 MP 1681.87	39.823588	-76.275092	Waters Stream	WW-T02-008 WW-T02-008A	Wissler Run UNT To Wissler Run	P E	HQ-WWF, MF	50' Floodway Only	N	Υ	N	Jan. 1 - Sept. 30	N		78 21	25 N/A 139	361 199 5,325	0.008 0.005 0.122	0.135	1,068 161 7,568	0.025 0.004 0.174	0.202	360 (0.031 0.008 0.	85 0.000 401	0.002	0.011	0.04	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 2 MP 1683.52	39.83722	-76.251129	Waters Stream Floodway Wetlands Waterbodies	WW-T02-013 W-T02-012A-1 WB-T02-012	Fishing Creek	P PEM N/A	HQ-CWF, MF	50' Floodway and 100 year floodplain	Y	Y - Y	N - N	Jan. 1 - Feb. 14; June 2 - Sept 30	N	- - N	66	10 121 22 N/A		0.004 0.035 0.000	0.039 0.000 0.006	616 6,759 1,200	0.014 0.155 0.028 0.004	0.169 0.028 0.004	767 (7,877 (1,122 (0.018 0. 0.181 0. 0.026 0.	198 34 390 026 78 010 0.000	0.001 0.009 0.002	0.010 0.002 0.000	0.06	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 3 MP 1684.98	39.848749	-76.228608	Waters Stream Floodway Wetlands		UNT to Fishing Creek	P PEM PEM	HQ-CWF, MF	50' Floodway and 100 year floodplain	Y, >0.5 miles downstream	Y	N	Jan. 1 - Sept. 30	N	· ·	85	4 122	0 0 0	0.000 0.000 0.000 0.000	0.000	281 1,917 4,268 3,938	0.006 0.044	0.050	267 (1,844 (4,079 (0.006 0.042 0.094	048 14 73 190 184 235	0.000	0.002	0.20	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
			Waters Stream Floodway	W-T02-008B-1 WW-T02-001	UNT to Conowingo Creek	PSS	HQ-CWF, MF	50' Floodway Only	Y, >0.5 miles downstream	Y	Y			-	32	2 126	0 59 1,399	0.000 0.001 0.032	0.033	217 64 3,694	0.005 0.001 0.085	0.086	217 (118 (4,749 (0.005 0.003 0.109	0 112 5 345	0.00 0.000 0.008	0.008			Dry, Open Cut
Crossing 4 MP 1685.72	39.854358	-76.21681	Wetlands	W-T02-001A-1 W-T02-001A-2 W-T02-001B-1 W-T02-001C-1		PEM PEM PSS PFO	EV					April 2 - Sept. 30	N	Υ		277	0 1,657	0.038	0.068	3,637 15,209 122 1,139	0.003 0.026	0.462	15,655 (122 (2,796 (0.003	191 774 0 0	0	0.022	0.53	Pipeline/ LOD	and Timber Mats/Bridge
Crossing 5 MP 1686.51	39.860281	-76.204403	Waters Stream Floodway Wetlands	WW-T02-005	Conowingo Creek	Р .	HQ-CWF, MF	50' Floodway and 100 year floodplain	Y, >0.5 miles downstream	Υ -	Y -	April 2 - Sept. 30	N	-	154	44 264	0 0	0.000 0.000 0.000	0.000	2,528 19,399 0	0.058 0.445 0.000	0.503	18,617 (0.427	140 785 000 0	0.003 0.018 0	0.021	0.06	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 6 MP 1686.61	39.861121	-76.201796	Waters Stream Floodway Wetlands	WW-T02-006	UNT to Conowingo Creek	P -	HQ-CWF, MF	50' Floodway and 100 year floodplain	Y, >0.5 miles downstream	Y -	Y -	April 2 - Sept. 30	N		123	27 180	0	0.000 0.000	0.000	1,682 11,586 0	0.039 0.266 0.000	0.305	11,070 (0.254	96 517 000 0		0.014	0.04	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 7 MP 1687.39	39.86704	-76.190676	Waters Stream Floodway Stream Floodway	WW-T02-007 WW31001	UNT to Conowingo Creek UNT to Conowingo Creek	P E	HQ-CWF, MF	50' Floodway and 100 year floodplain 50' Floodway Only	Y, >0.5 miles downstream	Υ	Y	April 2 - Sept. 30	N		158	18 250 2 248	156 2,843 21 3,696	0.004 0.065 0.000 0.085	0.069	733 13,098 211 14,555	0.017 0.301 0.005 0.334	0.318	15,221 (223 (17,383 (0.349	368 63 720 104 8 868	0.020	0.018	0.06	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 9			Wetlands Waters Stream Floodway	W-T02-005A-1	Stewart Run	PEM -	HQ-CWF, MF		-					N -	-	27 -	84	0.002	0.002	1,538	0.035	0.035	0 (0.000 0.	035 93	0.002	0.002			Dry, Open Cut
Crossing 8 MP 1688.1	39.872508	-76.179436	Wetlands	W-T02-009A-1 W-T02-009A-2		PEM	OTHER		-		-	Year Round	N	N		226	2,810	0.007	0.071	10,375	0.056	0.294	12,566	0.288	171 619	0.004	0.018	0.36	Pipeline/ LOD	and Timber Mats/Bridge
Crossing 9 MP 1688.46	39.875384	-76.173729	Waters Stream Floodway Wetlands	WW-T02-011 W-T02-010A-1 W-T02-010B-1	UNT to Stewart Run	P PEM PSS	HQ-CWF, MF	50' Floodway Only	Y, >0.5 miles downstream	N -	N -	Year Round	N	- - Y		2 119 342	171 0 1,449 3,123	0.004 0.000 0.033 0.072	0.004	134 0.000 14,036 2.395	0.003 0.000 0.322 0.055	0.003	0.000 (14,290 (0.000	007 7 0 155 1,195 0,000		0.000	0.49	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 10 MP 1688.71	39.877566	-76.169788	Waters Stream Floodway Wetlands	- W-T06-001A-1	Stewart Run	- PEM	HQ-CWF, MF					Year Round	N	- - Y	:	112	0 2,315	0.000	0.053	0 6,578	0.000	0	0 (0.000 0.	000 0.000	0	0.000	0.20	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 11 MP 1689.34	39.882178	-76.159672	Waters Stream Floodway Wetlands	WW-T06-001 W-T06-003A-1	UNT to Stewart Run	P PEM	HQ -CWF, MF OTHER	50' Floodway Only	Y, >0.5 miles downstream	N -	N -	Year Round	N	N		15 119 N/A	1,359 762	0.017	0.031	438 4,352 471	0.010 0.100 0.011	0.110	5,341 (1,232 (0.123 0.028 0.	131 51 364 028 1	0.001 0.008 0.000	0.010	0.04	Pipeline/ LOD	Conventional Bore and Timber Mats/Bridge
Crossing 12 MP 1690.47	39.891973	-76.142222	Waters Stream Floodway Wetlands	WW-T02-012 W-T02-11A-1	UNT to Bowery Run	I PEM	HQ-CWF, MF OTHER	50' Floodway Only	Y, >0.5 miles downstream	N -	N -	Year Round	N	- N	73	6 119 48	154 1,917 2,450	0.044	0.048 0.056	457 7,067 2,531	0.010 0.162 0.058	0.173	8,589 (0.197	211 22 396 110 169	0.009	0.010	0.13	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge
Crossing 13 MP 1690.9	39.895562	-76.136389	Waters Stream Floodway Wetlands	- W-T06-004A-1	UNT to Bowery Run	PEM	HQ-CWF, MF OTHER		-	-		Year Round	N	- - N		220	4,353	0.100	0.100	0 0 13,483	0.000 0.000 0.310	0			000 0.000 892 769	0.018	0.018	0.41	Pipeline/ LOD	Dry, Open Cut and Timber Mats/Bridge

- 1- Refers to the name of the crossing as shown in the permit application and reflects a single and complete crossing.
- 2 Refers to the resource crossing location.
- 3 Refers to the impact type within the application
- 4 Refers to the name of the resource as shown in the permit application
- 5 Refers to the name of the waterway or associated tributary
- 6 Refers to the Cowardin class of the wetland feature(Emergent, PEM; Scrub-shrub, PSS; Forested, PFO; or Open Water, POW) or the flow regime of the stream (ephemeral, intermittent, perennial)
- 7 Chapter 83 Refers to the existing and/or designated stream use as outlined in the PA Code, Title 25, Chapter 93. No streams have an existing use within the Project area. Chapter 105.17 Refers to the whether or not the wetland is considered Exceptional value or Other as defined by the PA Code, Title 25, Chapter 105.17. Only those wetlands associated with wild brout streams are considered EV.
- 8 Refers to the floodway and floodplain status of the crossing. No FEMA floodways exist within the Project area and a 50' floodway was delineated from the top-of-bank of delineated waterways. Some crossings have a 100 year floodplain boundary.
- 9 Refers to the if the stream is a regulated trout water by the Pa Fish and Boat Commission, which includes, Class A Wild Trout, Approved Trout, and Naturally Reproducing (Wild) Trout. Consultation with the PFBC was completed to verify these statuses.
- 10 The crossing window, as shown, was approved by the PA Fish and Boat Commission for stream crossings. Crossings impacting wetlands only were assumed to have no time of year crossing restrictions.
- 11 Indicates if a Submerged Land License Agreement is required based on DEP'S List of Streams Subject to The Submerged Land License Program September 2003 DRAFT
- 12 Refers to the presence or absence of potential bog turtle habitat within the wetland. Phase 2 Presence/Absence surveys were completed in the spring of 2017 at each of crossing with potential habitat and no turtles were found.
- 13 Refers to bank to bank width or wetland width at pipeline crossings. The floodway width shown represents the total 50' floodway width, measuring from the west side to the east side of the floodway.
- 14 Refers to Project impacts within the temporary workspace, outside of existing or proposed Transco rights of way.
- 15 Refers to Project impacts within the permanent rights of way, both existing and proposed Transco rights ofway.
- 16 Area calculated within the impacted portion of the resource using Geographical Information Systems (GIS) software, then rounded (acre calculations only).
- 17- Refers to PADEP Tempory Impacts for within the LOD, excluding the 42" Pipeline (which is considered permanent).
- 17 Neess to the activity impacts are more in 200, "declarage in 200," declarage in 200, "declarage in 200," declarage in 200,

P	ermit Fee Impact Summary Tabl	e							
	Waters Impact Summary								
Impact Type	Temporary Impacts (ac)	Permanent Impacts (ac)							
Total Waterway Impacts	0.03	0.19							
Total Floodway Impacts	0.41	2.07							
Total Waterbody Impacts	0.01	0.00							
Total Waters Impact	0.45	2.26							
	Wetlands Impact Summary								
PEM Impacts	0.35	1.83							
PSS Impacts	0.07	0.06							
PFO Impacts	0.04	0.03							
Total Wetland Impacts	0.46	1.92							
Total Impacts	0.91	4.18							
rotal impacts	Wetlands Impact Summary 1.83 0.35 1.83 0.07 0.06 0.04 0.03 0.46 1.92 0.91 4.18 5.09 4.2 5.2 5.2								
Rounded Impacts for Permit Fees	1.0	4.2							
Rounded Impacts for Permit Pees	Temporary Impacts (ac)								
	Temporary @ \$4,000/acre	Permanent @ \$8,000/acr							
PADEP Permit Fees	\$4,000	\$33,600							
	Adminstrative Review Fee - \$1,750								

Overall DEP	Aquatic Resource Impact Sumn	nary Table by Project							
	Waters Impact Summar	Y							
mpact Type	Temporary Impacts (ac)	Permanent Impacts (ac)							
Total Waterway	0.21	0.01							
Total Floodway	2.37	0.11							
Total Waterbody	0.01	0.00							
Total Waters	2.59	0.12							
	Wetlands Impact Summa	ry							
PEM Impacts	2.08	0.11							
PSS Impacts	0.13	0.00							
PFO Impacts	0.06	0.00							
Total Wetland	2.28	0.11							
		•							
Total Immedia	4.87	0.24							
Total Impacts	5.10								

Subfacility Table by Crossing

	Subfacility Table by Crossing													Temporary Impacts - LOD ¹³ Permanent Impacts - 42" Pipe ¹⁴															
										Chapter 93					Tempor	ary Impacts	- LOD 13	Permaner	nt Impacts -	42" Pipe 14									
Resource Crossing Number ¹	Latitude ²	Longitude ²	County	Municipality	Featur	e Type ³	Resource Name ⁴	Waterway Name ⁵	Stream Type or Cowardin Class ⁶	Designation or Existing Use for Streams and Chapter 105.17 Wetland Designation ⁷	Floodway/Flooplain Data (50' FW, 100 year floodplain, FEMA Floodway) ⁸	Subfacility Type & Code	Stream Length within Permanent Right-of-Way	Distance at Pipeline Crossing (feet) ⁹	Area (feet ²) ¹⁰	Area (acres) ¹⁰	Total Impacts for this Location (acres)	Area (feet ²) ¹⁰	Area (acres) ¹⁰	Total Impacts for this Location (acres)	Crossed by ¹¹	Crossing Method ¹²							
		J					WW-T02-008	Wissler Run	Р	HQ-WWF, MF			78	25	1,344	0.031	(,	85	0.002	(,									
Crossing 1 MP 1681.87	39.823588	-76.275092	Lancaster	Drumore Township	Waters	Stream	WW-T02-008A	UNT To Wissler Run	E	HQ-WWF, MF	50' Floodway Only	TRNC, TWP, BRDG	21	N/A	360	0.008	0.326	0.000	0.000	0.011	Pipeline/ LOD	Dry, Open Cut and Timber							
						Floodway	-	-	-	-	-	Ī	-	139	12,492	0.287		401	0.009			Mats/Bridge							
					Waters	Stream	WW-T02-013	Fishing Creek	Р	HQ-CWF, MF	50' Floodway and 100		66	10	767	0.018	0.198	34	0.001	0.010									
Crossing 2				Drumore	vvaters	Floodway	WW-102-013	Tishing Creek		Tig-CWT, IWI	year floodplain		-	121	7,877	0.181	0.130	390	0.009	0.010		Dry, Open Cut							
MP 1683.52	39.83722	-76.251129	Lancaster	Township	Wet	lands	W-T02-012A-1	-	PEM	EV	-	TRNC, TWP, BRDG	-	22	1,122	0.026	0.026	78	0.002	0.002	Pipeline/ LOD	and Timber Mats/Bridge							
					Water	rbodies	WB-T02-012	-	N/A	-	-	1	-	N/A	437	0.010	0.010	0.000	0	0.000									
						Stream		UNT to Fishing			50' Floodway and 100	•	85	4	267	0.006		14	0.000										
					Waters	Floodway	WW-T02-010	Creek	P	HQ-CWF, MF	year floodplain		-	122	1,844	0.042	0.048	73	0.002	0.002									
Crossing 3				Drumore			W-T02-008A-1		PEM			Ť			4,079	0.094		190	0.004			Dry, Open Cut							
MP 1684.98	39.848749	-76.228608	Lancaster	Township			W-102-000A-1		FLIW			TRNC, TWP, BRDG			4,078	0.034		190	0.004		Pipeline/ LOD	and Timber							
					Wet	lands	W-T02-008A-2	-	PEM	EV	-		-	121	3,703	0.085	0.184	235	0.005	0.010		Mats/Bridge							
							W-T02-008B-1		PSS			1			217	0.005		0	0.00	1									
						Stream		INT to Occasión					32	2	118	0.003		5	0.000										
					Waters	Floodway	WW-T02-001	UNT to Conowingo Creek	1	HQ-CWF, MF	50' Floodway Only		32	126	4,749	0.003	0.112	345	0.000	0.008									
						inouway						+		120															
Creasing				Foot Downs			W-T02-001A-1		PEM						3,544	0.081		191	0.004			Dry, Open Cut							
Crossing 4 MP 1685.72	39.854358	-76.21681	Lancaster	East Drumore Township			W-T02-001A-2		PEM			TRNC, TWP, BRDG			15,655	0.359		774	0.018	0.022		and Timber Mats/Bridge							
					Wet	lands		-		EV	-		-	277			0.508	_	_										
							W-T02-001B-1		PSS						122	0.003		0	0										
							W-T02-001C-1		PFO						2,796	0.064		0	0										
						Stream					50' Floodway and 100		154	44	2,384	0.055		140	0.003										
Crossing 5 MP 1686.51		-76.204403	Lancaster	East Drumore	Waters	Floodway	WW-T02-005	Conowingo Creek	P		/F. MF	TRNC, TWP, BRDG		264	18.617	0.427	0.482	785	0.018	0.021	Pipeline/ LOD	Dry, Open Cut and Timber							
				Township	Wet	lands		-		-		1	-		0	0.000	0.000	0	0	0.000		Mats/Bridge							
						Stream		UNT to Conowingo			50' Floodway and 100		123	27	1,586	0.036		96	0.002			Drv. Open Cut							
Crossing 6 MP 1686.61	39.861121	-76.201796	Lancaster	East Drumore	Waters	Floodway	WW-T02-006	Creek	P	HQ-CWF, MF	year floodplain	TRNC, TWP, BRDG	-	180	11,070	0.254	0.291	517	0.012	0.014	Pipeline/ LOD	and Timber							
MP 1686.61				Township	Wet	Wet	We	lands				-		1	-	-	0	0.000	0.000	0	0.000	-		Mats/Bridge					
						Stream		UNT to Conowingo			50' Floodway and 100		158	18	827	0.019		63	0.001		_								
					Mat	Floodway WW-T02	WW-T02-007	Creek	P	HQ-CWF, MF	year floodplain		-	250 15,221	15,221	0.349	0.368	720	0.017	0.018		Day Ones C							
Crossing 7	39.86704	-76.190676	Lancaster	East Drumore	East Drumore Township Waters	East Drumore					East Drumore	Waters	Stream		UNT to Conowingo	_	HQ-CWF, MF		TRNC TWP BRDG	106	2	223	0.005		8	0.000		Pipeline/ LOD	Dry, Open Cut and Timber
MP 1687.39	00.00704	70.100070	Laroustor	Township					Floodway		WW31001	1 Creek E	E	HQ-CWF, MF	50' Floodway Only	TRINC, TWP, BRDG	-	248	17,383	0.399	0.404	868	0.020	0.020	ripeline/ LOD	Mats/Bridge			
					Wet	lands	W-T02-005A-1	5A-1 - PEM EV	27	1,529	0.035	0.035	93	0.002	0.002	1													
						Stream									,,														
					Waters	Floodway	-	Stewart Run	-	HQ-CWF, MF	-		-		0	0.000	0.000	0	0	0.000									
Crossing 8	39.872508	-76.179436	Lancaster	East Drumore		inouway					-	TRNC, TWP, BRDG									Pipeline/ LOD	Dry, Open Cut and Timber							
MP 1688.1	55.0.2500	10.170400	201000101	Township	Wet	lands	W-T02-009A-1		PEM	OTHER				226	2,539 0.058	0.058	0.347	171	0.004	0.018	. ipomier EOD	Mats/Bridge							
							W-T02-009A-2	-	PEM		-				12,566	0.288		619	0.014										
						Stream							66	2	298	0.007		7	0.0000										
Crossing C					Waters	Floodway	WW-T02-011	UNT to Stewart Run	P	HQ-CWF, MF	50' Floodway Only	1	-	119	0.000	0.000	0.007	0	0	0.000		Dry, Open Cut							
Crossing 9 MP 1688.46	39.875384	-76.173729	Lancaster	East Drumore Township		1	W-T02-010A-1	-	PEM		-	TRNC, TWP, BRDG			14.290	0.328		1.195	0.027		Pipeline/ LOD	and Timber							
				rownsnip	Wet	lands	102-010A-1	-		OTHER	-	1		342	14,200		0.455	1,100		0.027		Mats/Bridge							
							W-T02-010B-1	-	PSS		-	1			5,519	0.127		0.000	0.000										
					Meters	Stream		Stewart Dur		HO CWE MS			-			0.000	0.000	0.000	0	0.000									
Crossing 10	39.877566	-76.169788	Lancaster	East Drumore	Waters	Floodway		Stewart Run		HQ-CWF, MF	-	TRNC, TWP, BRDG	-		0	0.000	0.000	0.000	0	0.000	Pipeline/ LOD	Dry, Open Cut and Timber							
MP 1688.71				Township	Wet	lands	W-T06-001A-1		PEM	OTHER		1,,,		112	8,502	0.195	0.195	392	0.009	0.009	,	Mats/Bridge							
						Stream							22	15	384	0.009		51	0.001										
Crossing 11				East Drumore	Waters	Floodway	WW-T06-001	UNT to Stewart Run	P	HQ -CWF, MF	50' Floodway Only		-	119	5,341	0.009	0.131	364	0.001	0.010		Conventional Bore							
MP 1689.34	39.882178	-76.159672	Lancaster	Township								DB, TWP, BRDG	-								Pipeline/ LOD	and Timber Mats/Bridge							
					Wet	lands	W-T06-003A-1	-	PEM	OTHER	-		-	N/A	1,232	0.028	0.028	1	0.000	0.000									
Crossing 12					Waters	Stream	WW-T02-012	UNT to Bowery Run		HQ-CWF, MF	50' Floodway Only	1	73	6	589	0.014	0.211	22	0.001	0.010		Dry, Open Cut							
MP 1690.47	39.891973	-76.142222	Lancaster	Eden Township		Floodway		, 101				TRNC, TWP, BRDG	-	119	8,589	0.197		396	0.009		Pipeline/ LOD	and Timber Mats/Bridge							
					Wet		W-T02-11A-1		PEM	OTHER	-		-	48	4,812	0.110	0.110	169	0.004	0.004		wats/bridge							
					Waters	Stream	-	UNT to Bowery Run	-	HQ-CWF, MF	_	1	-		0	0.000	0.000	0.000	-	-		Dry, Open Cut							
Crossing 13 MP 1690.9	39.895562	-76.136389	Lancaster	Eden Township		Floodway						TRNC, TWP, BRDG	-	·							Pipeline/ LOD	and Timber							
	1000.0			· .	Wet	lands	W-T06-004A-1	-	PEM	OTHER	-	1	-	220	17,067 0.392	0.392	769	0.018	0.018		Mats/Bridge								

- 1- Refers to the name of the crossing as shown in the permit application and reflects a single and complete crossing.
- 2 Refers to the resource crossing location lat/long
- 3 Refers to the impact type within the application.
- 4 Refers to the name of the resource as shown in the permit application
- 5 Refers to the name of the waterway or associated tributary
- 6 Refers to the Cowardin class of the wetland feature (Emergent (PEM); Scrub-shrub (PSS); Forested(PFO); or Open Water (POW), or the flow regime of the stream (ephemeral, intermittent, perennial)
- 7 Chapter 93 Refers to the existing and/or designated stream use as outlined in the PA Code, Title 25, Chapter 93. No streams have an existing use within the Project area. Chapter 105.17 Refers to whether or not the wetland is considered Exceptional Value (EV) or Other as defined by the PA Code, Title 25, Chapter 105.17. Only those wetlands associated with wild trout streams are considered EV.
- 8 Refers to the floodway and floodplain status of the crossing. No FEMA floodways exist within the Project area and a 50' floodway was delineated from the top-of-bank of delineated waterways. Some crossings have a 100 year floodplain boundary.
- 9 Refers to bank to bank width or wetland width at pipeline crossings. The floodway width shown represents the total 50' floodway width, measuring from the west side to the east side of the floodway.
- 10 Area calculated within the impacted portion of the resource using Geographical Information Systems (GIS) software, then rounded (acre calculations only).
- 11 Refers to the activity being completed at the crossing. If the crossing is only impacted by the pipeline, the LOD, both, or water withdrawal.
- $12-Refers to the type of crossing that is proposed at the resource crossing location including, Open Cut, Timber Mats, \ or other impact type.\\$
- ${\tt 13-Refers\ to\ PADEP\ Temporary\ Impacts\ for\ within\ the\ LOD,\ excluding\ the\ 42"\ Pipeline\ (which\ is\ considered\ permanent)}.$
- 14 Refers to PADEP Permanent Impacts for the 42" Pipeline underneath the resource.