Response to Paragraph 3 of Administrative Order

Summary

The attached listing represents crossings where the pipeline has been installed or is planned to be installed through or under a stream resource that has a trout fishery designation. In addition to the information that the Department requested SPLP provide in Exhibit 1, SPLP has also included two additional columns that list the presence of and compliance with the timing restrictions for specified stream crossings imposed by the Pennsylvania Fish & Boat Commission ("PAFBC") or the Department, as reflected and included in the permit application materials for the Mariner East 2 project. As the Department is aware, not all of the trout streams that the Mariner East 2 project have or will cross have timing or seasonal restrictions.

The following provides further explanation for the responses provided in the attached Exhibit 1.

Date Construction Initiated and Completed Columns

The column that lists "Date Construction Initiated" reflects the date that trenching and lowering of the pipe into the trench began with respect to trenched construction methods, or with respect to trenchless construction, the date when the pilot hole for the HDD or bore was started. The column that lists "Date Construction Completed" reflects the date that backfilling of the trench was completed, or with respect to trenchless construction, the day the pipe was pulled-in or completed. In some cases, direct impact of the stream was avoided because the stream started or aligned along the edge of the limit of disturbance ("LOD"). Those cases are noted as such with "avoided" as the entry.

Where SPLP has not yet installed the pipe, then "Not installed" is entered. In spread 1, no 16" pipe is being installed, and therefore "No 16" Pipe" is entered. Where the pipe was not installed through or under the stream, however a temporary bridge was needed to facilitate installation, "n/a" is entered for the construction dates.

The Department requested Daily Construction Logs as an attachment to Exhibit 1. Daily Construction Logs do not exist. Therefore, a variety of data sources were used to identify the initiation and completion dates as set forth on the table. Dates were determined based on pipe welding, coating, lowering-in, and pull-back data, as well as communication with the Construction Project Manager, Construction Spread Managers, Environmental Inspectors, and Professional Geologists. For crossings listed as not installed or completed, SPLP may be using the permitted temporary bridge at that location. SPLP will continue to adhere to the in-stream work timing restrictions as imposed by the PAFBC or the Department, as reflected and included in the project's permit application materials.

Permitted Method of Pipe Installation Column

The permitted crossing method entered for these fields explains the crossing method as provided to the Department within the Chapter 105 application Waterbody Impact Summary tables.

Utilized Method of Pipe Installation Column

Where SPLP has not yet installed the pipe, then "n/a" is entered. SPLP did not include those crossings where construction was started and abandoned or is currently under review by the Department as a permit modification. The notation "Dry Crossing (Bridge Only)" indicates that the pipe was not installed through or under the stream, however a temporary bridge was needed to facilitate installation.

Fishery Designations

The entry provided is the designation provided to the Department within the Chapter 105 Waterbody Impact Summary tables. The corresponding entries are as follows:

- ATW = Approved Trout Water
- STS = Stocked Trout Stream
- TNR = Trout Natural Reproduction or Wild Trout Stream
- Class A = Class A Water
- WTS = Wilderness Trout Stream

Where delineated streams are not directly classified according to PAFBC data, they have been designated as "drains to" as that information was provided with the application tables.

Available Photographs

The Chapter 105 and 102 permits do not require "during construction" photographs, and therefore not all crossings have these photographs. However, they have been provided to the extent they are available. The notation "n/a" is placed for all areas for the "after construction" photographs where both pipes are planned but have not yet been installed.

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream	Stream Name	Coordinates	Spread #	County	Monicipality	Date Construc	ction Initiated	Date Constru	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal	Complied	omplied E&S Plan		Available Photographic Record				
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	or pipe installation	Designation	Restriction	Restriction	Number	Before	During	After			
S12	UNT to Little Chartiers Creek	40.2331, -80.1634	1	Washington	North Strabane	9/6/2017	No 16" Pipe	9/6/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-1.24	х	n/a	х			
S13	UNT to Little Chartiers Creek	40.2303, -80.1539	1	Washington	North Strabane	9/11/2017	No 16" Pipe	9/13/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-1.26	Х	Х	Х			
S14	UNT to Little Chartiers Creek	40.2303, -80.1486	1	Washington	North Strabane	9/1/2017	No 16" Pipe	9/1/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-1.27	Х	Х	Х			
S16 S250	Little Chartiers Creek UNT to Little Chartiers Creek	40.2357, -80.1353 40.2355, -80.134	1	Washington	North Strabane	Not Installed Not Installed	No 16" Pipe	Not Installed Not Installed	No 16" Pipe	HDD HDD	n/a	ATW, STS	No	n/a	ES-1.30 ES-1.30	X	n/a	n/a			
S250 S18	UNT to Little Chartiers Creek UNT to Mingo Creek	40.2355, -80.134	1	Washington Washington	North Strabane Nottingham	8/15/2017	No 16" Pipe No 16" Pipe	8/15/2017	No 16" Pipe No 16" Pipe	Dry Crossing	n/a Dry Crossing	Drains to ATW, STS Drains to ATW	No No	n/a n/a	ES-1.43	X X	n/a n/a	n/a X			
S19	UNT to Mingo Creek	40.2285, -80.0545	1	Washington	Nottingham	8/21/2017	No 16" Pipe	8/22/2017	No 16" Pipe	Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW	No	n/a	ES-1.44	X	n/a	X			
S20	UNT to Mingo Creek	40.2284, -80.0542	1	Washington	Nottingham	8/21/017	No 16" Pipe	8/22/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.44	Х	n/a	Х			
S21	UNT to Mingo Creek	40.2262, -80.0493	1	Washington	Nottingham	8/24/2017	No 16" Pipe	8/24/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.45	X	n/a	Х			
S22	UNT to Mingo Creek	40.2281, -80.0464	1	Washington	Nottingham	8/2/2017	No 16" Pipe	8/3/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.46	Х	Х	Х			
S23	UNT to Mingo Creek UNT to Mingo Creek	40.2274, -80.0389 40.2312, -80.0165	1	Washington	Nottingham Union	7/3/2017 9/1/2017	No 16" Pipe No 16" Pipe	7/3/2017 9/1/2017	No 16" Pipe No 16" Pipe	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No No	n/a n/a	ES-1.47 ES-1.51	X X	n/a n/a	X			
525	UNT to Mingo Creek	40.230980.0106	1	Washington	Union	9/1/2017	No 16" Pipe	9/2/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No.	n/a	ES-1.52	×	X	X			
S29	UNT to Mingo Creek	40.2295, -79.9841	1	Washington	Union	6/17/2017	No 16" Pipe	7/19/2017	No 16" Pipe	HDD	HDD	Drains to ATW	No	n/a	ES-1.57	X	n/a	Х			
S124	UNT to Little Chartiers Creek	40.2307, -80.1606	1	Washington	North Strabane	9/7/2017	No 16" Pipe	9/12/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-1.25	Х	Х	Х			
S125	UNT to Little Chartiers Creek	40.239, -80.1126	1	Washington	North Strabane	9/25/2017	No 16" Pipe	11/18/2017	No 16" Pipe	Bore/Temporary Bridge	FlexBor	Drains to ATW, STS	No	n/a	ES-1.34	Х	Х	Х			
S126	UNT to Little Chartiers Creek	40.2391, -80.1123	1	Washington	North Strabane	12/11/2017 10/24/2017	No 16" Pipe	12/15/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-1.34	X	X	X			
S127 S128	UNT to Little Chartiers Creek UNT to Little Chartiers Creek	40.2354, -80.1061 40.2355, -80.1059	1	Washington Washington	North Strabane North Strabane	10/24/2017 n/a	No 16" Pipe No 16" Pipe	10/26/2017 n/a	No 16" Pipe No 16" Pipe	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing (Bridge Only)	Drains to ATW, STS Drains to ATW, STS	No No	n/a n/a	ES-1.35 ES-1.35	X X	X n/a	X n/a			
S129	UNT to Little Chartiers Creek	40.2355, -80.103	1	Washington	North Strabane	6/5/2017	No 16" Pipe	9/16/2017	No 16" Pipe	HDD	HDD	Drains to ATW, STS	No	n/a	ES-1.35, 1.36	X	II/a X	X X			
S280	UNT to Little Chartiers Creek	40.2345, -80.1023	1	Washington	North Strabane	6/5/2017	No 16" Pipe	9/16/2017	No 16" Pipe	HDD	HDD	Drains to ATW, STS	No	n/a	ES-1.36	X	Х	Х			
S138	UNT to Mingo Creek	40.2318, -80.0737	1	Washington	Nottingham	8/21/2017	No 16" Pipe	8/22/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-1.41	Х	Х	Х			
S139	UNT to Mingo Creek	40.2306, -80.0698	1	Washington	Nottingham	8/10/2017	No 16" Pipe	8/10/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.41	Х	n/a	Х			
S140	UNT to Mingo Creek	40.2284, -80.0448	1	Washington	Nottingham	7/17/2017	No 16" Pipe	7/17/2017	No 16" Pipe	Dry Crossing	FlexBor	Drains to ATW	No	n/a	ES-1.46	Х	n/a	Х			
S269 S-T34	UNT to Little Chartiers Creek UNT to Mingo Creek	40.2369, -80.1729 40.2303, -80.022	1	Washington Washington	North Strabane Nottingham	8/15/2017 9/10/2017	No 16" Pipe No 16" Pipe	8/16/2017 9/11/2017	No 16" Pipe No 16" Pipe	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to ATW	No No	n/a n/a	ES-1.22 ES-1.51	X X	n/a	X X			
S-134 S-T35	UNT to Mingo Creek	40.2282, -80.0282	1	Washington	Nottingham	9/6/2017	No 16 Pipe No 16" Pipe	9/8/2017	No 16 Pipe No 16" Pipe	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW	No	n/a n/a	FS-1.51	X	n/a n/a	X			
S172	UNT to Sewickley Creek	40.2399, -79.7425	1	Westmoreland	Sewickley	Not Installed	No 16" Pipe	Not Installed	No 16" Pipe	HDD/ Travel Lane/Clearing LOD	n/a	Drains to ATW	No	n/a	ES-1.14	X	n/a	n/a			
S173	UNT to Sewickley Creek	40.2433, -79.7359	1	Westmoreland	Sewickley	8/11/2017	No 16" Pipe	8/12/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.15	Х	Х	Х			
S211	UNT to Turtle Creek	40.4046, -79.611	1	Westmoreland	Penn	Not Installed	No 16" Pipe	Not Installed	No 16" Pipe	Dry Crossing	n/a	Drains to ATW	No	n/a	ES-1.62	Х	n/a	n/a			
S212	UNT to Turtle Creek	40.4048, -79.6114	1	Westmoreland	Penn	Not Installed	No 16" Pipe	Not Installed	No 16" Pipe	Dry Crossing	n/a	Drains to ATW	No	n/a	ES-1.62	Х	n/a	n/a			
S213 S214	UNT to Turtle Creek	40.406, -79.6123 40.4178, -79.6059	1	Westmoreland	Murrysville Murrysville	7/25/2017 6/30/2017	No 16" Pipe No 16" Pipe	7/26/2017	No 16" Pipe	Dry Crossing Bore/Temporary Bridge	Dry Crossing Bore/Temporary Bridge	Drains to ATW	No No	n/a n/a	ES-1.62 ES-1.65	X	X n/a	X			
S214 S215	Turtle Creek	40.4178, -79.6059	1	Westmoreland	Murrysville	Not Installed	No 16 Pipe No 16" Pipe	7/17/2017 Not Installed	No 16" Pipe No 16" Pipe	HDD	n/a	ATW	No No	n/a n/a	ES-1.65	X Y	n/a n/a	n/a			
S222	UNT to Sewickley Creek	40.2331, -79.7705	1	Westmoreland	South Huntingdon	5/26/2017	No 16" Pipe	7/20/2017	No 16" Pipe	HDD/ Clearing LOD	HDD/ Clearing LOD	Drains to ATW	No	n/a	ES-1.08	X	n/a	X			
S224	Sewickley Creek	40.2377, -79.7515	1	Westmoreland	Sewickley	5/17/2017	No 16" Pipe	5/18/2017	No 16" Pipe	HDD	HDD	ATW	No	n/a	ES-1.12	Х	Х	Х			
S236	UNT to Turtle Creek	40.4094, -79.6107	1	Westmoreland	South Huntingdon	8/29/2017	No 16" Pipe	8/30/2017	No 16" Pipe	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-1.63	Х	Х	Х			
S-CS1	UNT to Youghiogheny River	40.2239, -79.776	1	Westmoreland	Murrysville	7/29/2017	No 16" Pipe	7/30/2017	No 16" Pipe	Dry Crossing	Dry Crossing	ATW, STS	No	n/a	ES-1.06	Х	Х	Х			
S-M97 S-P35	UNT to Loyalhanna Creek UNT to Loyalhanna Creek	40.4352, -79.4712 40.4353, -79.4706	2	Westmoreland Westmoreland	Loyalhanna Loyalhanna	7/21/2017 7/21/2017	9/1/2017 9/1/2017	7/21/2017 7/21/2017	9/1/2017 9/2/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No No	n/a n/a	ES-2.18 ES-2.18	X X	X	X			
S-N113	UNT to Loyalhanna Creek	40.4333, -79.4166	2	Westmoreland	Loyalhanna	6/10/2017	10/31/2017	6/11/2017	10/31/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW	No.	n/a	ES-2.28	X	X	X			
S-N114	UNT to Loyalhanna Creek	40.4393, -79.4169	2	Westmoreland	Loyalhanna	6/10/2017	10/31/2017	6/11/2017	10/31/2017	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-2.28	X	X	X			
S-N117	UNT to Loyalhanna Creek	40.4344, -79.4859	2	Westmoreland	Salem	7/18/2017	8/30/2017	7/18/2017	8/30/2017	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-2.16	Х	Х	Х			
S-N118	UNT to Loyalhanna Creek	40.4346, -79.4858	2	Westmoreland	Salem	7/18/2017	8/30/2017	7/18/2017	8/30/2017	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-2.16	Х	Х	Х			
S-N119 S-P27	UNT to Loyalhanna Creek UNT to Loyalhanna Creek	40.435, -79.4782 40.4382, -79.4281	2	Westmoreland Westmoreland	Salem Loyalhanna	7/19/2017 6/7/2017	10/18/2017	7/19/2017 6/7/2017	10/18/2017 10/25/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No No	n/a	ES-2.17 ES-2.26	X	X	X X			
S-P27 S-P34	UNT to Loyalnanna Creek UNT to Lovalhanna Creek	40.4382, -79.4281	2	Westmoreland	Loyalhanna	7/24/2017	10/25/2017	7/24/2017	10/25/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No No	n/a n/a	ES-2.26 ES-2.18, 2.19	X	X	X			
S-P34 S-N65	UNT to Loyalnanna Creek UNT to Findley Run	40.4353, -/9.47	2	Indiana	East Wheatfield	7/24/2017 8/29/2017	10/19/201/	9/30/2017	10/19/2017	HDD HDD	HDD	Drains to ATW Drains to TNR	No No	n/a n/a	ES-2.18, 2.19 ES-2.54	X	n/a	X			
S-N66	UNT to Findley Run	40.4306, -78.9984	2	Indiana	East Wheatfield	7/17/2017	11/6/2017	9/30/2017	12/16/2017	HDD	HDD	Drains to TNR	No	n/a	ES-2.54	X	n/a	X			
S-N75	UNT to Conemaugh River	40.4304, -79.0265	2	Indiana	East Wheatfield	8/2/2017	9/11/2017	8/2/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.49	Х	Х	Х			
S-N76	UNT to Conemaugh River	40.4314, -79.0369	2	Indiana	East Wheatfield	8/22/2017	9/12/2017	8/22/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.47	Х	Х	Х			
S-N87	Toms Run	40.4443, -79.2022	2	Indiana	Burrell	7/22/2017	9/12/2017	7/22/2017	9/14/2017	Dry Crossing	Dry Crossing	ATW, STS, TNR	Yes	Yes	ES-2.18	Х	Х	Х			
S-N88 S-N89	Toms Run UNT to Toms Run	40.4442, -79.2024 40.4438, -79.202	2	Indiana Indiana	Burrell	7/22/2017 7/22/2017	9/12/2017	7/22/2017	9/14/2017 9/14/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	ATW, STS, TNR Drains to ATW, STS, TNR	Yes	Yes	ES-2.18 ES-2.18, 2.19	X X	X X	X X			
S-N89 S-N90	Toms Run	40.4438, -79.202	2	Indiana	Burrell	7/27/2017	9/12/2017	7/31/2017	9/12/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	ATW. TNR. Drains to STS	Yes	Yes	ES-2.18, 2.19 ES-2.23	X	X	X			
S-N91	UNT to Toms Run	40.4395, -79.1696	2	Indiana	Burrell	8/8/2017	9/10/2017	8/9/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS, TNR	Yes	Yes	ES-2.24	X	X	X			
S-063	UNT to Findley Run	40.4329, -78.9727	2	Indiana	East Wheatfield	8/31/2017	9/13/2017	8/31/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.58	Х	n/a	Х			
S-064	UNT to Findley Run	40.4325, -78.9741	2	Indiana	East Wheatfield	9/1/2017	9/16/2017	9/6/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.58	Х	Х	Х			
S-066	UNT to Findley Run	40.4336, -78.9832	2	Indiana	East Wheatfield	9/1/2017	9/15/2017	9/1/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.57	X	n/a	X			
S-069 S-070	UNT to Findley Run	40.4308, -78.9639 40.431, -78.9644	2	Indiana	East Wheatfield East Wheatfield	8/31/2017	9/12/2017	8/31/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR Drains to TNR	Yes	Yes	ES-2.60	X	X	X			
S-070 S-072	UNT to Findley Run Findley Run	40.431, -78.9644	2	Indiana Indiana	East Wheatfield	8/31/2017 9/10/2017	9/12/2017 9/10/2017	8/31/2017 9/11/2017	9/12/2017 9/11/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	TNR	Yes	Yes	ES-2.60 ES-2.61	X	n/a X	X			
S-072	UNT to Findley Run	40.4299, -78.9555	2	Indiana	East Wheatfield	9/16/2017	9/16/2017	9/16/2017	9/16/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-2.62	X	n/a	X			
S-074	UNT to Findley Run	40.4295, -78.9542	2	Indiana	East Wheatfield	8/31/2017	9/11/2017	8/31/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.62	X	X	X			
S-076	UNT to Findley Run	40.4291, -78.9932	2	Indiana	East Wheatfield	9/23/2017	9/23/2017	9/23/2017	9/23/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.55	Х	Х	Х			
S-077	UNT to Findley Run	40.4293, -78.9936	2	Indiana	East Wheatfield	9/23/2017	9/23/2017	9/23/2017	9/23/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.54	X	Х	X			

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream						Date Construc	ction Initiated	Date Construc	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal	Complied	E&S Plan	Available	Photograp	phic Record
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	of pipe installation	Designation	Restriction	with Restriction	Sheet Number	Before	During	After
S-078	UNT to Findley Run	40.430378.9961	2	Indiana	East Wheatfield	9/16/2017	9/16/2017	9/17/2017	9/17/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.54	Х	X	Х
S-093	UNT to Conemaugh River	40.4314, -79.0406	2	Indiana	East Wheatfield	8/15/2017	9/10/2017	8/15/2017	9/10/2017	Dry Crossing	Dry Crossing	Drains to TNR*	Yes	Yes	ES-2.46, 2.47	Х	Х	Х
S-094	UNT to Conemaugh River	40.4315, -79.0392	2	Indiana	East Wheatfield	8/15/2017	9/10/2017	8/15/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR*	Yes	Yes	ES-2.47	Х	Х	Х
S-096	UNT to Conemaugh River	40.4316, -79.0389	2	Indiana	East Wheatfield	9/10/2017	9/11/2017	9/11/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR*	Yes	Yes	ES-2.47	Х	X	X
S-O102	UNT to Roaring Run	40.4392, -79.1476	2	Indiana	West Wheatfield	8/17/2017	11/4/2017	8/17/2017	11/4/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.28	Х	Х	Х
S-O104	UNT to Roaring Run	40.4391, -79.1505	2	Indiana	West Wheatfield	7/24/2017	11/28/2017	7/24/2017	11/29/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.27, 2.28	Х	X	X
S-0106 S-0110	UNT to Roaring Run	40.4392, -79.1534 40.4393, -79.1647	2	Indiana Indiana	West Wheatfield Burrell	Avoided 9/3/2017	Avoided 9/10/2017	Avoided 9/3/2017	Avoided 9/11/2017	Dry Crossing Dry Crossing	Resource Avoided Dry Crossing	Drains to ATW, STS Drains to ATW, STS, TNR	No Yes	n/a Yes	ES-2.27 ES-2.25	X	n/a X	n/a X
S-0110 S-0109	UNT to Toms Run	40.4393, -79.1647	2	Indiana	Burrell	8/2/2017	9/9/2017	8/2/2017	9/11/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS, TNR Drains to ATW, STS, TNR	Yes	Yes	ES-2.25 ES-2.25	X	X	X
S-0109	Toms Run	40.4395, -79.1682	2	Indiana	Burrell	8/1/2017	9/10/2017	8/2/2017	9/10/2017	Dry Crossing	Dry Crossing	ATW. TNR. Drains to STS	Yes	Yes	ES-2.24, 2.25	X	X	X
S-CC1	UNT to Stewart Run	40.437, -78.7635	2	Cambria	Cambria	Not Installed	Not Installed	Not Installed	Not Installed	Bore/Temporary Bridge	n/a - Approved HDD planned	Drains to ATW, TNR	Waived	n/a	ES-2.34	X	n/a	n/a
S-CC2	UNT to Stewart Run	40.4369, -78.7642	2	Cambria	Cambria	Not Installed	Not Installed	Not Installed	Not Installed	Bore	n/a - Approved HDD planned	Drains to ATW, TNR	No	n/a	ES-2.34	Х	n/a	n/a
S-CC4	Stewart Run	40.4328, -78.7815	2	Cambria	Cambria	9/8/2017	9/13/2017	9/8/2017	9/13/2017	Dry Crossing	Dry Crossing	ATW, TNR	Yes	Yes	ES-2.31	Х	Х	х
S-CC5	UNT to Stewart Run	40.4331, -78.7817	2	Cambria	Cambria	9/8/2017	9/13/2017	9/8/2017	9/13/2017	Dry Crossing	Dry Crossing	ATW, TNR	Yes	Yes	ES-2.31	Х	Х	Х
S-CC6	UNT to Stewart Run	40.4331, -78.7812	2	Cambria	Cambria	9/7/2017	9/13/2017	9/7/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.31	Х	X	X
S-CC7	UNT to Stewart Run	40.4338, -78.7763	2	Cambria	Cambria	9/14/2017	9/14/2017	9/15/2017	9/15/2017	Dry Crossing	Dry Crossing	TNR, Drains to ATW	Yes	Yes	ES-2.31, 2.32	Х	Х	х
S-CC8	UNT to Stewart Run	40.4355, -78.7694	2	Cambria	Cambria	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Travel Lane	n/a	TNR, Drains to ATW	No	n/a	ES-2.33	Х	n/a	n/a
S-L94	UNT to Blair Run	40.4086, -78.5567	2	Cambria	Washington	9/14/217	9/14/2017	9/15/2017	9/15/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.75	Х	n/a	Х
S-Q71	Blair Run	40.4092, -78.5585	2	Cambria	Washington	9/14/2017	9/14/2017 Not Installed	9/15/2017 Not Installed	9/15/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.75	X	n/a	X
S-N1 S-N4	UNT to Howells Run UNT to Howells Run	40.4489, -78.7125 40.449778.7085	2	Cambria	Cambria Cambria	Not Installed Avoided	Not Installed Avoided	Avoided	Not Installed Avoided	Bore/Travel Lane Dry Crossing	n/a Resource Avoided	Drains to ATW, STS Drains to ATW, STS	Yes	n/a Yes	ES-2.43 ES-2.44	X	n/a n/a	n/a n/a
S-N8	UNT to Howells Run	40.4497, -78.7085	2	Cambria	Cambria	Avoided	Avoided	Avoided	Avoided	Dry Crossing Dry Crossing	Resource Avoided Resource Avoided	Drains to ATW, STS	Yes	Yes	ES-2.44 ES-2.44	X	n/a n/a	n/a n/a
S-N10	UNT to Howells Run	40.4509, -78.7045	2	Cambria	Cambria	11/15/2017	11/16/2017	11/16/2017	11/17/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.44	X	II/a X	11/d X
S-N13	UNT to Howells Run	40.451978.7005	2	Cambria	Cambria	11/20/2017	11/20/2017	11/20/2017	11/20/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.45	X	n/a	X
S-N14	UNT to Howells Run	40.45278.7008	2	Cambria	Cambria	11/20/2017	11/20/2017	11/20/2017	11/20/2017	Dry Crossing	Dry Crossing	Drains to ATW. STS	Yes	Yes	ES-2.45	X	X	X
S-N17	UNT to North Branch	40.4526, -78.6877	2	Cambria	Munster	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Clearing LOD	n/a	Drains to ATW	No	n/a	ES-2.47	Х	n/a	n/a
S-N18	UNT to Noels Creek	40.4524, -78.6566	2	Cambria	Munster	10/31/2017	10/31/2017	11/1/2017	11/1/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.53	Х	Х	Х
S-N21	UNT to Noels Creek	40.4524, -78.6611	2	Cambria	Munster	11/10/2017	Not Installed	11/11/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.52	Χ	Х	Х
S-N22	UNT to Noels Creek	40.4524, -78.6613	2	Cambria	Munster	n/a	n/a	n/a	n/a	Dry Crossing	Dry Crossing (Bridge Only)	Drains to ATW, STS	No	n/a	ES-2.52	Х	n/a	n/a
S-N25	UNT to North Branch Little Conema	40.4526, -78.6666	2	Cambria	Munster	n/a	n/a	n/a	n/a	Dry Crossing	Dry Crossing (Bridge Only)	Drains to ATW	No	n/a	ES-2.51	Х	X	X
S-N26	UNT to North Branch	40.4526, -78.6665	2	Cambria	Munster	n/a	n/a	n/a	n/a	Dry Crossing	Dry Crossing (Bridge Only)	Drains to ATW	No	n/a	ES-2.51	Х	n/a	n/a
S-N28	UNT to North Branch Little Conema	40.4524, -78.6669	2	Cambria	Munster	10/27/2017	Not Installed	10/27/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-2.51	Х	X	X
S-N27 S-N29	UNT to North Branch Little Conema	40.4526, -78.6661	2	Cambria	Munster	n/a 10/17/2017	n/a	n/a 10/18/2017	n/a 10/20/2017	Dry Crossing	Dry Crossing (Bridge Only)	Drains to ATW	No No	n/a n/a	ES-2.51 ES-2.50	X	n/a x	n/a x
S-N29 S-N30	UNT to North Branch Little Conema UNT to North Branch Little Conema	40.4524, -/8.6/16	2	Cambria	Munster	10/17/2017	10/19/2017	10/18/2017	10/20/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No No	n/a n/a	ES-2.50 ES-2.50	X	X	X
S-N33	UNT to North Branch Little Conema	40.4524, -78.6796	2	Cambria	Munster	10/16/2017	Not Installed	10/17/2017	Not Installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW	No.	n/a	ES-2.49	X	X	X
S-N34	North Branch Little Conemaugh Riv	40.4523, -78.6854	2	Cambria	Munster	Not Installed	Not Installed	Not Installed	Not installed	HDD/Travel Lane	n/a	ATW	No.	n/a	FS-2.48	Y	Y	Ŷ
S-N36	UNT to Hinckston Run	40.4154, -78,863	2	Cambria	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW. STS	No	n/a	ES-2.16	X	n/a	n/a
S-N39	Hinckston Run	40.4157, -78.8661	2	Cambria	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	ATW, STS	No	n/a	ES-2.16	Х	n/a	n/a
S-N41	UNT to Hinckston Run	40.4163, -78.8723	2	Cambria	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Travel Lane	n/a	Drains to ATW, STS	No	n/a	ES-2.15	Х	n/a	n/a
S-N42	UNT to Hinckston Run	40.4164, -78.8732	2	Cambria	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Travel Lane	n/a	Drains to ATW, STS	No	n/a	ES-2.15	Х	n/a	n/a
S-N45	UNT to Laurel Run	40.4194, -78.8846	2	Cambria	Jackson	9/13/2017	9/13/2017	9/14/2017	9/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.13	Х	Х	Х
S-N46	UNT to Laurel Run	40.4196, -78.8851	2	Cambria	Jackson	9/12/2017	9/12/2017	9/12/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.12, 2.13	Х	n/a	Х
S-N48	UNT to Laurel Run	40.4197, -78.8877	2	Cambria	Jackson	9/16/2017	9/16/2017	9/18/2017	9/18/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.12	Х	Х	Х
S-N49	UNT to Laurel Run	40.4207, -78.896	2	Cambria	Jackson	9/16/2017	9/16/2017	9/16/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.11	Х	Х	Х
S-N50	UNT to Laurel Run	40.4209, -78.8962	2	Cambria	Jackson	9/16/2017	9/16/2017	9/16/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.11	X	X	X
S-N51 S-N52	UNT to Laurel Run	40.421, -78.8973	2	Cambria	Jackson Jackson	9/20/2017 9/20/2017	9/20/2017	9/21/2017 9/21/2017	9/21/2017 9/21/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, TNR Drains to ATW, TNR	Yes	Yes	ES-2.10, 2.11 ES-2.10	X	X	X
S-N52 S-N53	UNT to Laurel Run	40.4213, -78.8979	2	Cambria	Jackson	9/20/2017	9/20/2017	9/21/2017	9/21/201/	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.10 FS-2.09	X	X	X
S-N54	UNT to Laurel Run	40.4221, -78.9057	2	Cambria	Jackson	9/13/2017	9/13/2017	9/13/2017	9/13/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-2.09	X	X	X
S-N56	UNT to Findley Run	40.4247, -78.9248	2	Cambria	Jackson	9/8/2017	9/10/2017	9/8/2017	9/11/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, TNK	Yes	Yes	ES-2.06	X	X	X
S-N59	UNT to Findley Run	40.4256, -78.9301	2	Cambria	Jackson	9/9/2017	9/10/2017	9/9/2017	9/10/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.05	X	X	X
S-N61	UNT to Findley Run	40.4265, -78.9386	2	Cambria	Jackson	8/31/2017	9/11/2017	8/31/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.03	Х	X	Х
S-N62	UNT to Findley Run	40.427, -78.9439	2	Cambria	Jackson	9/8/2017	9/12/2017	9/8/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.02	Х	Х	Х
S-N63	UNT to Findley Run	40.4271, -78.9447	2	Cambria	Jackson	9/8/2017	9/12/2017	9/8/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.02	Х	X	Х
S-N64	UNT to Findley Run	40.4271, -78.9453	2	Cambria	Jackson	9/8/2017	9/12/2017	9/8/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.02	Х	Х	Х
S-01	UNT to Noels Creek	40.4535, -78.6303	2	Cambria	Munster	10/23/2017	Not Installed	10/23/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.57	X	Х	Х
S-04	UNT to Noels Creek	40.453, -78.6361	2	Cambria	Munster	11/14/2017	11/14/2017	11/14/2017	11/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.56	Х	Х	Х
S-05	UNT to Noels Creek	40.4525, -78.6397	2	Cambria	Munster	11/1/2017	11/1/2017	11/1/2017	11/1/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.55, 2.56	Х	X	Х
S-06	UNT to Noels Creek	40.4529, -78.6399	2	Cambria	Munster	10/19/2017	10/24/2017 Not Installed	10/20/2017	10/25/2017 Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.55	X	X	X
S-07 S-09	UNT to Noels Creek	40.453, -78.6428 40.4528, -78.643	2	Cambria	Munster Munster	10/24/2017	Not Installed Not Installed	10/25/2017	Not installed Not installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to ATW, STS	No No	n/a	ES-2.55 ES-2.55	X	X	X
S-09 S-011	UNT to Noels Creek UNT to Noels Creek	40.4528, -78.643	2	Cambria	Munster	10/24/2017	Not installed Not installed	10/25/2017	Not installed Not installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	ATW. Drains to STS	No No	n/a n/a	ES-2.55 FS-2.54	X	X	X
	UNT to Noels Creek	40.4522, -78.6473	2	Cambria	Munster	10/19/2017	Not installed	10/21/2017	Not installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	ATW, Drains to STS	No.	n/a n/a	ES-2.54 ES-2.54	X	X Y	X
S-012		-0.4020, -70.0475		CONTIDITO						,		,		,				X
S-012 S-013	UNT to Noels Creek	40.4525, -78.6491	2	Cambria	Munster	10/19/2017	Not Installed	10/21/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.54	X	X	

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream	Q	0	0	0	Manufata Pro	Date Construc	ction Initiated	Date Constru	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal	Complied	E&S Plan	Available	able Photographic Record		
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	of pipe installation	Designation	Restriction	Restriction	Sheet Number	Before	During	After	
S-015	UNT to Howells Run	40.4477, -78.7174	2	Cambria	Munster	9/28/2017	9/28/2017	9/28/2017	9/28/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.42	Х	X	×	
S-016	UNT to Howells Run	40.4477, -78.718	2	Cambria	Munster	9/27/2017	9/28/2017	9/27/2017	9/28/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.42	Х	Х	Х	
S-017	UNT to Howells Run	40.4468, -78.7228	2	Cambria	Cambria	10/14/2017	10/14/2017	10/14/2017	10/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.41	X	X	Х	
S-018	UNT to Howells Run	40.4464, -78.7232	2	Cambria	Cambria	10/14/2017	10/14/2017	10/14/2017	10/14/2017	Dry Crossing	Dry Crossing	ATW, STS	Yes	Yes	ES-2.41	Х	Х	x	
S-019	UNT to Howells Run	40.4464, -78.7228	2	Cambria	Cambria	10/15/2017	10/15/2017	10/15/2017	10/15/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.41	Х	X	Х	
S-020	UNT to Howells Run	40.4463, -78.7238	2	Cambria	Cambria	10/13/2017	10/13/2017	10/15/2017	10/15/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-2.41	X	X	X	
S-021 S-023	Roaring Run UNT to Roaring Run	40.4452, -78.7298	2	Cambria	Cambria	9/17/2017	9/17/2017	9/17/2017	9/17/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to ATW, STS	Yes	Yes	ES-2.40 ES-2.40	X	X n/a	n/a	
S-023	UNT to Roaring Run	40.4447, -78.7314	2	Cambria	Cambria	10/24/2017	10/24/2017	10/25/2017	10/25/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No.	n/a	FS-2.40	X	II/a X	11/a V	
S-025	UNT to Roaring Run	40.443, -78.7396	2	Cambria	Cambria	10/2/2017	Not Installed	10/3/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.38	X	X	×	
S-027	UNT to Roaring Run	40.4421, -78.7442	2	Cambria	Cambria	9/23/2017	Not Installed	9/24/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.38	Х	Х	X	
S-028	UNT to Roaring Run	40.4413, -78.7484	2	Cambria	Cambria	9/21/2017	Not Installed	9/22/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.37	Х	n/a	Х	
S-O29	UNT to Roaring Run	40.4411, -78.7491	2	Cambria	Cambria	10/27/2017	10/27/2017	10/28/2017	10/28/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.37	X	Х	Х	
S-O30	UNT to Saltlick Run	40.4245, -78.8178	2	Cambria	Cambria	9/1/2017	9/15/2017	9/1/2017	9/15/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.24, 2.25	Х	Х	Х	
S-031	UNT to Saltlick Run	40.425, -78.8158	2	Cambria	Cambria	9/8/2017	9/12/2017	9/9/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.25	Х	X	Х	
S-045	UNT to Saltlick Run	40.425, -78.8175	2	Cambria	Jackson	9/9/2017	9/13/2017	9/9/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.24, 2.25	Х	X	X	
S-048 S-050	UNT to Saltlick Run UNT to Saltlick Run	40.4245, -78.8174	2	Cambria	Jackson	Avoided	Avoided	Avoided	Avoided	Dry Crossing	Resource Avoided	Drains to TNR	Yes	Yes	ES-2.24 ES-2.24	X	n/a X	n/a X	
S-050 S-051	UNT to Saltlick Run	40.4241, -78.8193	2	Cambria	Jackson Jackson	9/8/2017 9/8/2017	9/15/2017 9/15/2017	9/8/2017 9/8/2017	9/15/2017 9/15/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR Drains to TNR	Yes	Yes	ES-2.24 ES-2.24	X	X	X	
S-052	UNT to Saltlick Run	40.4241, -78.8201	2	Cambria	Jackson	9/8/2017	9/15/2017	9/8/2017	9/15/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-2.24	Y Y	Y Y	X	
S-032	UNT to Saltlick Run	40.4275, -78.8046	2	Cambria	Jackson	9/6/2017	9/13/2017	9/6/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.27	X	X	X	
S-034	UNT to Saltlick Run	40.430778.7921	2	Cambria	Jackson	9/7/2017	9/13/2017	9/8/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.29	X	X	X	
S-O36	UNT to Saltlick Run	40.4309, -78.7903	2	Cambria	Jackson	n/a	n/a	n/a	n/a	Dry Crossing	Dry Crossing (Bridge Only)	Drains to TNR	Yes	Yes	ES-2.29	Х	n/a	n/a	
S-037	UNT to Saltlick Run	40.4208, -78.8349	2	Cambria	Jackson	8/30/2017	9/16/2017	8/30/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.21	Х	Х	Х	
S-038	UNT to Saltlick Run	40.4195, -78.8416	2	Cambria	Jackson	9/17/2017	9/17/2017	9/17/2017	9/17/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-2.20	Х	Х	Х	
S-040	UNT to Hinckston Run	40.4173, -78.8497	2	Cambria	Jackson	9/7/2017	Not Installed	9/8/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.19	Х	Х	Х	
S-041	UNT to Hinckston Run	40.4176, -78.8489	2	Cambria	Jackson	9/8/2017	Not Installed	9/9/2017	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-2.19	Х	Х	Х	
S-043	UNT to Hinckston Run	40.4156, -78.8603	2	Cambria	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Existing Culvert	n/a	Drains to ATW, STS	No	n/a	ES-2.17	Х	n/a	n/a	
S-044 S-054	UNT to Hinckston Run UNT to Saltlick Run	40.4156, -78.8609 40.4236, -78.8213	2	Cambria	Jackson Jackson	Not Installed 9/5/2017	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	No Yes	n/a Yes	ES-2.17 ES-2.24	X	n/a x	n/a X	
S-054 S-056	UNT to Saltlick Run	40.4236, -78.8213	2	Cambria	Jackson	9/10/2017	9/12/2017 9/10/2017	9/5/2017 9/10/2017	9/12/2017 9/10/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-2.24 ES-2.23	X	X	X	
S-O59	Saltlick Run	40.4232, -78.8259	2	Cambria	Jackson	9/16/2017	9/16/2017	9/17/2017	9/17/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	TNR	Yes	Yes	ES-2.23	X	X	X	
S-O60	UNT to Saltlick Run	40.4227, -78.8256	2	Cambria	Jackson	9/16/2017	9/18/2017	9/17/2017	9/19/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-2.23	X	n/a	x	
S-BB44	Oldtown Run	40.4167, -78.3483	3	Blair	Frankstown	9/10/2017	9/11/2017	9/10/2017	9/11/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.38	X	X	X	
S-BB47	UNT to Oldtown Run	40.4143, -78.3571	3	Blair	Frankstown	9/10/2017	9/12/2017	9/10/2017	9/12/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.36	Х	Х	х	
S-BB48	Frankstown Branch Juniata River	40.4133, -78.3736	3	Blair	Blair	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	TNR	No	n/a	ES-3.33	Х	n/a	n/a	
S-BB49B	UNT to Frankstown Branch Juniata	40.415, -78.381	3	Blair	Blair	9/12/2017	9/12/2017	9/13/2017	9/13/2017	Dry Crossing/Temporary Bridge	Dry Crossing/Temporary Bridge	Drains to TNR	Yes	Yes	ES-3.32	Х	Х	Х	
S-KP1	UNT to Fransktown Branch Juniata	40.4156, -78.3804	3	Blair	Blair	9/12/2017	9/13/2017	9/13/2017	9/13/2017	Dry Crossing/Temporary Bridge	Dry Crossing/Temporary Bridge	Drains to TNR	Yes	Yes	ES-3.32	Х	Х	Х	
S-BB89 S-I 58	UNT to Frankstown Branch Juniata	40.4323, -78.3349	3	Blair	Frankstown	8/15/2017	9/15/2017	9/15/2017	11/11/2017	Bore	Bore for 20"; Guided Bore for 16"	Drains to TNR	No No	n/a	ES-3.42 ES-3.67	X X	n/a x	X	
S-L58 S-L68	Clover Creek UNT to Frankstown Branch Juniata	40.421, -78.2123 40.4456, -78.3148	3	Blair	Woodbury	6/28/2017	10/11/2017 9/18/2017	6/28/2017 9/15/2017	10/11/2017	Dry Crossing	Borc	ATW, STS, TNR, Drains to Class A Drains to TNR		n/a	ES-3.67 ES-3.48	X	X	X	
S-169	UNT to Frankstown Branch Juniata	40.4456, -78.3148	3	Blair	Frankstown Frankstown	9/15/2017 9/10/2017	9/18/2017	9/10/2017	9/18/2017 9/19/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-3.48 ES-3.46, 3.47	X	X	X	
S-L72	UNT to Frankstown Branch Juniata	40.4462, -78.3241	3	Blair	Frankstown	8/22/2017	9/1/2017	8/22/2017	9/1/2017	Bore/Temporary Bridge	Bore/Temporary Bridge	Drains to TNR	Yes	Yes	ES-3.46	X	n/a	X	
S-174	UNT to Frankstown Branch Juniata	40.446, -78,3237	3	Blair	Frankstown	9/9/2017	9/10/2017	9/9/2017	9/10/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.46	X	х х	X	
S-BB96	UNT to Frankstown Branch Juniata	40.4472, -78.3225	3	Blair	Frankstown	9/10/2017	9/18/2017	9/10/2017	9/18/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.46	Х	Х	х	
S-L76	UNT to Frankstown Branch Juniata	40.4445, -78.3246	3	Blair	Frankstown	9/20/2017	Not Installed	11/2/2017	Not Installed	HDD	HDD	Drains to TNR	Yes	n/a	ES-3.46	Х	n/a	Х	
S-L77	Frankstown Branch Juniata River	40.4403, -78.3295	3	Blair	Frankstown	9/20/2017	Not Installed	11/2/2017	Not Installed	HDD	HDD	TNR	No	n/a	ES-3.44, 3.45	X	n/a	Х	
S-BB92	UNT to Frankstown Branch Juniata	40.4406, -78.333	3	Blair	Frankstown	9/20/2017	Not Installed	11/2/2017	Not Installed	HDD	HDD	Drains to TNR	No	n/a	ES-3.44	Х	n/a	Х	
S-BB95	UNT to Frankstown Branch Juniata	40.4417, -78.3298	3	Blair	Frankstown	9/20/2017	Not Installed	11/2/2017	Not Installed	HDD	HDD	Drains to TNR	No	n/a	ES-3.45	Х	n/a	Х	
S-L83	UNT to Poplar Run	40.401, -78.5143	3	Blair	Juniata	9/16/2017	9/19/2017	9/16/2017	9/19/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.08	X	X	X	
S-Q58 S-184	UNT to Poplar Run Dry Run	40.4011, -78.5143	3	Blair	Juniata Juniata	9/19/2017 10/20/2017	9/19/2017 Not Installed	9/19/2017 10/20/2017	9/19/2017 Not Installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to TNR	Yes	Yes n/a	ES-3.08 FS-3.10.3.11	X	X	X	
S-196	UNT to Blair Run	40.4027, -78.5013	2	Blair	Juniata	9/21/2017	9/23/2017	9/21/2017	9/23/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.03	X	X	X	
S-L96 S-197	UNT to Blair Run	40.4044, -78.5473	3	Blair	Juniata	9/21/2017	9/23/2017	9/21/2017	9/23/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	Yes	Yes	ES-3.03 ES-3.03	X	X	X	
S-L98	Blair Run	40.4043, -78.5359	3	Blair	Juniata	9/19/2017	9/21/2017	9/19/2017	9/21/2017	Dry Crossing	Dry Crossing	TNR	Yes	Yes	ES-3.05	X	X	X	
S-M30	Piney Creek	40.4331, -78.2668	3	Blair	Woodbury	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	TNR	No	n/a	ES-3.58	Х	n/a	n/a	
S-M31	Frankstown Branch Juniata River	40.4344, -78.2969	3	Blair	Frankstown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	TNR	No	n/a	ES-3.52	Х	n/a	n/a	
S-M38	UNT to Frankstown Branch Juniata	40.4334, -78.2933	3	Blair	Frankstown	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Clearing LOD	n/a	Drains to TNR	Yes	n/a	ES-3.52	Х	n/a	n/a	
S-M32	UNT to Frankstown Branch Juniata	40.4353, -78.2988	3	Blair	Frankstown	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	Drains to TNR	No	n/a	ES-3.51	X	n/a	n/a	
S-M33	UNT to Piney Creek	40.4336, -78.2684	3	Blair	Woodbury	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	No	n/a	ES-3.57	X	n/a	n/a	
S-M35	UNT to Piney Creek	40.4355, -78.2778	3	Blair	Woodbury	Avoided	Avoided	Avoided	Avoided	Dry Crossing	Resource Avoided	Drains to TNR	Yes	Yes	ES-3.56	X	X	X	
S-M69	Dry Run	40.4089, -78.4408	3	Blair	Blair	6/22/2017	Not Installed	9/27/2017	Not Installed	HDD	HDD	Drains to TNR	No	n/a	ES-3.21	X	n/a	n/a	
S-M70 S-M72	UNT to Dry Run	40.4066, -78.4567 40.4066, -78.4604	3	Blair	Allegheny Juniata	10/6/2017 10/4/2017	Not Installed Not Installed	10/6/2017	Not Installed Not Installed	Dry Crossing /Tomposon Pridge	Dry Crossing /Tomporony Bridge	Drains to TNR Drains to TNR	No	n/a n/a	ES-3.18 ES-3.18	X	X	X X	
S-M73	UNT to Dry Run UNT to Blair Gap Run	40.4066, -78.4604	3	Blair	Juniata Juniata	9/13/2017	9/15/2017	10/5/2017 9/13/2017	9/15/2017	Dry Crossing/Temporary Bridge Dry Crossing	Dry Crossing/Temporary Bridge Dry Crossing	Drains to TNR Drains to ATW. STS	No Yes	n/a Yes	ES-3.18 ES-3.16	X	X	X	
S-M74	UNT to Dry Run	40.4051 -78.4834	3	Blair	Juniata	10/3/2017	11/28/2017	10/4/2017	11/28/2017	Dry Crossing	Dry Crossing	Drains to ATW, 313	No.	n/a	ES-3.14	y Y	×	Y Y	
- 1017-9	10 017 11011	70.4031, 770.4034	,			10/3/201/	14, 20, 2017	10/4/201/	14, 20, 2017	,	, 5.035116		1.10	1/4		^	^	^	

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream	Stream Name	Coordinates	Spread #	County	Municipality	Date Construc	ction Initiated	Date Construe	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal	Complied	E&S Plan Avai		Photograp	phic Record
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	of pipe installation	Designation	Restriction	Restriction	Number	Before	During	After
S-M75	UNT to Dry Run	40.4054, -78.4836	3	Blair	Juniata	10/3/2017	11/28/2017	10/4/2017	11/28/2017	Dry Crossing	Dry Crossing	Drains to TNR	No	n/a	ES-3.14	х	X	х
S-M76	UNT to Dry Run	40.405, -78.4877	3	Blair	Juniata	10/3/2017	11/27/2017	10/4/2017	11/28/2017	Dry Crossing	Dry Crossing	Drains to TNR	No	n/a	ES-3.13	Х	Х	Х
S-M77	UNT to Dry Run	40.4047, -78.4879	3	Blair	Juniata	10/3/2017	11/27/2017	10/4/2017	11/28/2017	Dry Crossing	Dry Crossing	Drains to TNR	No	n/a	ES-3.13	Х	X	X
S-M78 S-M79	UNT to Dry Run	40.4048, -78.4916	3	Blair	Juniata	10/10/2017	11/30/2017 9/19/2017	10/11/2017	11/30/2017	Dry Crossing	Dry Crossing	Drains to TNR Drains to TNR	No	n/a	ES-3.12 ES-3.12	X	X	X
S-M80	UNT to Dry Run UNT to Dry Run	40.4047, -78.4929	3	Blair	Juniata Juniata	9/13/2017 10/19/2017	9/19/201/ Not Installed	9/13/2017 10/21/2017	9/19/2017 Not Installed	Bore/Temporary Bridge Dry Crossing	Bore/Temporary Bridge Dry Crossing	Drains to TNR Drains to TNR	No No	n/a n/a	ES-3.12 ES-3.12	X X	n/a X	X X
S-059	UNT to Dry Run	40.4048, -78.5018	3	Blair	Juniata	10/19/2017	Not Installed	10/27/2017	Not Installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR	No	n/a	ES-3.11	X	X	X
S-K94	Blacklog Creek	40.3215, -77.7876	3	Huntingdon	Shirley	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	ATW, STS	Yes	n/a	ES-3.73	Х	Х	n/a
S-K95	UNT to Blacklog Creek	40.3205, -77.7846	3	Huntingdon	Shirley	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing/Temporary Bridge	n/a	Drains to ATW, STS	Yes	n/a	ES-3.07	Х	n/a	n/a
S-K96	UNT to Blacklog Creek	40.3199, -77.7815	3	Huntingdon	Shirley	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Yes	n/a	ES-3.74	Х	n/a	n/a
S-L21 S-L35	UNT to Blacklog Creek UNT to Hares Valley Creek	40.3195, -77.7794	3	Huntingdon Huntingdon	Shirley	Not Installed	Not Installed Not Installed	Not Installed 09/13/17	Not Installed Not Installed	Dry Crossing Dry Crossing	n/a Dry Crossing	Drains to ATW, STS Drains to ATW	Yes	n/a	ES-3.74 ES-3.41	X X	n/a	n/a X
S-L35 S-L38	UNT to Hares Valley Creek UNT to Hares Valley Creek	40.3497, -77.9633	3	Huntingdon	Union	09/12/17	Not Installed Not Installed	09/13/17	Not installed Not installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW Drains to ATW	No	n/a n/a	ES-3.41 ES-3.41	X	X	X
S-M1	UNT to Blacklog Creek	40.321977.7914	3	Huntingdon	Shirley	Not Installed	Not Installed	Not Installed	Not installed	Dry Crossing	n/a	Drains to ATW.	Yes	n/a	ES-3.72	X	n/a	n/a
S-M15	UNT to Hares Valley Creek	40.3511, -77.9712	3	Huntingdon	Union	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW	No	n/a	ES-3.40	Х	n/a	n/a
S-M16	Hares Valley Creek	40.3514, -77.9726	3	Huntingdon	Union	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	ATW	No	n/a	ES-3.40	Х	n/a	n/a
S-M17	UNT to Hares Valley Creek	40.3516, -77.9731	3	Huntingdon	Union	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW	No	n/a	ES-3.40	Х	n/a	n/a
S-M18	UNT to Hares Valley Creek	40.3515, -77.9757	3	Huntingdon	Union	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW	No	n/a	ES-3.39	X	n/a	n/a
S-M20 S-M2	UNT to Hares Valley Creek UNT to Blacklog Creek	40.3522, -77.9775	3	Huntingdon Huntingdon	Union Shirley	Not Installed 11/27/17	Not Installed 11/27/17	Not Installed 11/28/17	Not Installed 11/28/17	Dry Crossing Dry Crossing	n/a Dry Crossing	Drains to ATW Drains to ATW, STS	No Yes	n/a Yes	ES-3.39 ES-3.72	X	n/a x	n/a X
S-M2 S-M3	UNT to Blacklog Creek UNT to Blacklog Creek	40.3224, -/7.7947	3	Huntingdon	Shirley	11/27/17	11/2//1/	11/28/17	11/28/17	Bore/Temporary Bridge	Bore/Temporary Bridge	Drains to ATW, STS Drains to ATW, STS	Yes No	n/a	ES-3.72 ES-3.71	X	n/a	X
S-K55	UNT to Tuscarora Creek	40.2975, -77.6735	3	Juniata	Lack	11/22/17	Not Installed	11/24/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.09	X	X	X
S-K56	UNT to Tuscarora Creek	40.2974, -77.674	3	Juniata	Lack	11/20/17	Not Installed	11/25/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Waived	n/a	ES-3.09	Х	Х	х
S-K57	UNT to Tuscarora Creek	40.2975, -77.6753	3	Juniata	Lack	11/15/17	Not Installed	11/21/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.08, 3.09	Х	n/a	Х
S-K58	UNT to Tuscarora Creek	40.298, -77.6761	3	Juniata	Lack	11/15/17	Not Installed	11/22/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.08	Х	X	Х
S-K59	UNT to Tuscarora Creek	40.2977, -77.6764	3	Juniata	Lack	11/15/17	Not Installed	11/20/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.08	Х	Х	Х
S-K61 S-K62	UNT to Tuscarora Creek UNT to Tuscarora Creek	40.2978, -77.6771 40.298, -77.6773	3	Juniata	Lack Lack	11/15/17 11/10/17	Not Installed Not Installed	11/15/17 11/13/17	Not Installed Not Installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to ATW, STS	Yes Waived	Yes n/a	ES-3.08 ES-3.08	X	x n/a	X
S-K62	UNT to Tuscarora Creek	40.298, -77.6773	3	Juniata	Lack	11/10/17	Not Installed	11/13/17	Not Installed	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS	Waived	n/a n/a	ES-3.08	X	n/a Y	X
S-K65	UNT to Tuscarora Creek	40.2988, -77.6805	3	Juniata	Lack	11/13/17	Not Installed	11/14/17	Not installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.07. 3.08	X	n/a	X
S-K67	UNT to Tuscarora Creek	40.2986, -77.6822	3	Juniata	Lack	11/07/17	Not Installed	11/08/17	Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Yes	Yes	ES-3.07	Х	X	Х
S-K69	UNT to Tuscarora Creek	40.2999, -77.6901	3	Juniata	Lack	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Yes	n/a	ES-3.06	Х	n/a	n/a
S-K70	UNT to Tuscarora Creek	40.2998, -77.6887	3	Juniata	Lack	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Yes	n/a	ES-3.06	Х	n/a	n/a
S-K72	UNT to Tuscarora Creek	40.3009, -77.6922	3	Juniata	Lack	10/14/17	Not Installed Not Installed	10/14/17	Not Installed Not Installed	Dry Crossing	Dry Crossing	Drains to ATW, STS	Waived	n/a	ES-3.06	X	X	X
S-K73 S-K74	UNT to Tuscarora Creek Tuscarora Creek	40.301, -77.6934 40.3014, -77.6965	3	Juniata Juniata	Lack Lack	10/14/17 Not Installed	Not installed Not installed	10/14/17 Not Installed	Not installed Not installed	Dry Crossing HDD	Dry Crossing n/a	Drains to ATW, STS ATW, STS	Waived Yes	n/a n/a	ES-3.05 ES-3.05	X X	X n/a	X n/a
S-160	Laurel Run	40.2626, -77.4918	3	Perry	Jackson	09/11/2017	09/11/2017	09/12/2017	09/12/2017	Dry Crossing	Dry Crossing	TNR, WTS	Yes	Yes	ES-3.31	X	X	X
S-J61	UNT to Laurel Run	40.2622, -77.4907	3	Perry	Jackson	09/14/2017	09/14/17	09/16/17	09/16/17	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.31	X	X	X
S-J62	South Branch Laurel Run	40.2617, -77.4892	3	Perry	Jackson	9/22/2017	9/22/2017	09/23/17	09/23/17	Dry Crossing	Dry Crossing	TNR	Yes	Yes	ES-3.31	Х	Х	Х
S-J62a	South Branch Laurel Run	40.2618, -77.4893	3	Perry	Jackson	09/22/2017	09/22/2017	09/23/2017	09/23/2017	Dry Crossing	Dry Crossing	TNR	Yes	Yes	ES-3.31	Х	X	Х
S-J63	UNT to South Branch Laurel Run	40.2621, -77.4897	3	Perry	Jackson	09/20/2017	09/20/2017	09/22/2017	09/22/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.31	Х	Х	Х
S-J64 S-J65	UNT to Laurel Run UNT to Laurel Run	40.2608, -77.4851 40.2606, -77.4846	4	Perry	Jackson Jackson	9/14/2017 9/12/2017	9/14/2017 9/12/2017	9/16/2017 9/18/2017	9/16/2017 9/18/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR Drains to TNR	Yes	Yes	ES-3.32 ES-3.32	X	X	X
S-168	UNT to Laurel Run	40.258877.4779	4	Perry	Jackson	9/22/2017	9/22/2017	9/23/2017	9/23/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.33	X	X	X
S-J69	UNT to Laurel Run	40.2587, -77.4775	4	Perry	Jackson	9/22/2017	9/22/2017	9/23/2017	9/23/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.33	X	X	X
S-J70	Bull Run	40.2685, -77.5147	3	Perry	Jackson	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	ATW, Drains to TNR	No	n/a	ES-3.27	Х	n/a	n/a
S-J74	UNT to Schaeffer Run	40.2738, -77.5395	3	Perry	Toboyne	09/01/2017	09/01/2017	09/02/2017	09/02/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.22	Х	Х	Х
S-J75	UNT to Schaeffer Run	40.2739, -77.5394	3	Perry	Toboyne	09/01/2017	09/01/2017	09/02/2017	09/02/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-3.22 FS-3.22	X X	X X	X X
S-J76 S-K48	UNT to Schaeffer Run Shaeffer Run	40.2739, -77.5398 40.274, -77.5431	3	Perry	Toboyne Toboyne	09/01/2017 08/30/2017	09/01/2017 08/30/2017	09/02/2017 08/31/2017	09/02/2017 08/31/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to TNR Class A, TNR	Yes	Yes	ES-3.22 ES-3.22	X	X	X
S-K48 S-K50	UNT to Sherman Creek	40.274, -77.5431	3	Perry	Toboyne	08/30/2017	08/30/2017	08/31/2017	08/31/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to Class A. TNR	Yes	Yes	ES-3.22 ES-3.12	X	X	X
S-K51	UNT to Sherman Creek	40.2842, -77.6104	3	Perry	Toboyne	09/19/2017	09/19/2017	09/20/2017	09/20/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-3.10	X	X	X
S-K52	UNT to Sherman Creek	40.2844, -77.6124	3	Perry	Toboyne	09/21/2017	09/21/2017	09/21/2017	09/21/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-3.10	Х	Х	Х
S-L1	UNT to Shermans Creek	40.2869, -77.6208	3	Perry	Toboyne	09/12/2017	09/12/2017	09/13/2017	09/13/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-3.08	Х	Х	Х
S-L3	UNT to Shermans Creek	40.2875, -77.6244	3	Perry	Toboyne	09/20/2017	09/20/2017	09/23/2017	09/23/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-3.08	Х	Х	Х
S-L4	UNT to Horse Valley Run	40.2922, -77.6465	3	Perry	Toboyne	09/07/2017	09/07/2017 Not Installed	09/08/2017	09/08/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes n/a	ES-3.04	X	X	X - /-
S-L6 S-Q63	Horse Valley Run UNT to Schultz Creek	40.2937, -77.6501 40.2788, -77.5752	3	Perry	Toboyne Toboyne	Not Installed 09/01/2017	Not Installed 09/01/2017	Not Installed 09/02/2017	Not Installed 09/02/2017	HDD/Temporary Bridge Dry Crossing	n/a Dry Crossing	ATW, TNR Drains to ATW, STS, TNR	No Yes	n/a Yes	ES-3.03 ES-3.16	X X	X	n/a X
S-Q63 S-Q64	UNT to Schultz Creek	40.2787, -77.5755	3	Perry	Toboyne	09/07/2017	09/01/2017	09/02/2017	09/02/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS, TNR	Yes	Yes	FS-3.16	X	X	X
S-Q65	Schultz Creek	40.2782, -77.5731	3	Perry	Toboyne	09/18/2017	09/18/2017	09/20/2017	09/20/2017	Dry Crossing	Dry Crossing Dry Crossing	ATW, STS, TNR	Yes	Yes	ES-3.17	X	X	X
S-Q66	UNT to Schultz Creek	40.2784, -77.5721	3	Perry	Toboyne	09/12/2017	09/12/2017	09/16/2017	09/16/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS, TNR	Yes	Yes	ES-3.17	Х	Х	Х
S-Q67	UNT to Schultz Creek	40.2781, -77.5715	3	Perry	Toboyne	09/12/2017	09/12/2017	09/16/2017	09/16/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS, TNR	Yes	Yes	ES-3.17	Х	X	Х
S-BB40	UNT to Cedar Run	40.1958, -76.9696	4	Cumberland	Upper Allen	11/27/2017	11/27/2017	11/27/2017	11/27/2017	Dry Crossing	Dry Crossing	Drains to TNR	No	n/a	ES-4.91	Х	n/a	Х
S-H69	UNT to Yellow Breeches Creek UNT to Yellow Breeches Creek	40.192, -76.9331	4	Cumberland	Lower Allen	9/14/2017 Avoided	10/18/2017	9/15/2017	10/19/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS Drains to ATW, STS	Yes	Yes	ES-4.97	X	X n/a	X
S-H70 S-H71	UNT to Yellow Breeches Creek	40.1923, -76.933 40.1921, -76.934	4	Cumberland	Lower Allen	Avoided 9/18/2017	Avoided 10/19/2017	Avoided 9/21/2017	Avoided 10/19/2017	Dry Crossing Dry Crossing	Resource Avoided Dry Crossing	Drains to ATW, STS Drains to ATW, STS	Yes	Yes	ES-4.97 ES-4.97	X	n/a v	n/a v
3-H/I	OINT TO YELIOW Breeches Creek	40.1921, -/6.934	4	cumberiand	Lower Allen	9/18/201/	10/19/201/	9/21/201/	10/19/2017	DI Y CI USSING	DI Y CLOSSING	Didiiis to ATW, 515	162	res	E3-4.9/	X	X	, х

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream	Stream Name					Date Construc	ction Initiated	Date Construc	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal	Complied	E&S Plan	Available	Photograp	otographic Record	
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	of pipe installation	Designation	Restriction	with Restriction	Sheet Number	Before	During	After	
S-I34	UNT to Yellow Breeches Creek	40.1922, -76.9149	4	Cumberland	Lower Allen	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	No	n/a	ES-4.100	Х	n/a	n/a	
S-I40	UNT to Cedar Run	40.1924, -76.9415	4	Cumberland	Lower Allen	4/29/2017	Not Installed	9/9/2017	Not Installed	HDD	HDD	Drains to TNR	No	n/a	ES-4.96	Х	n/a	Х	
S-I41	UNT to Yellow Breeches Creek	40.1923, -76.9389	4	Cumberland	Lower Allen	4/29/2017	Not Installed	9/9/2017	Not Installed	HDD/Temporary Bridge	HDD/Temporary Bridge	Drains to ATW, STS	No	n/a	ES-4.96	Х	n/a	Х	
S-143 S-147	UNT to Yellow Breeches Creek	40.1924, -76.9384	4	Cumberland	Lower Allen Middlesex	4/29/2017	Not Installed Not Installed	9/9/2017 11/2/2017	Not Installed Not Installed	HDD/Temporary Bridge	HDD/Temporary Bridge	Drains to ATW, STS Drains to Class A. TNR	No No	n/a n/a	ES-4.96 ES-4.60	X X	n/a	X X	
S-147 S-148	UNT to Letort Spring Run Letort Spring Run	40.2281, -//.1321	4	Cumberland	Middlesex	4/26/2017 Not Installed	Not installed Not installed	11/2/2017 Not Installed	Not installed Not installed	HDD	n/a	Class A TNR	No No	n/a	ES-4.60 FS-4.59	X	n/a n/a	n/a	
S-148 S-150	UNT to Letort Spring Run	40.2285, -77.1402	4	Cumberland	Middlesex	Not Installed	Not Installed	Not installed	Not Installed	HDD/Temporary Bridge	n/a	Drains to Class A. TNR	Yes	n/a n/a	ES-4.59 ES-4.58	X	n/a n/a	n/a n/a	
S-167	UNT to Opossum Creek	40.2421, -77.2788	4	Cumberland	Lower Frankford	9/22/2017	10/6/2017	9/23/2017	10/7/2017	Dry Crossing	Dry Crossing	Drains to ATW	Yes	Yes	ES-4.33	X	X	х х	
S-169	Opossum Creek	40.2421, -77.2826	4	Cumberland	Lower Frankford	9/26/2017	11/21/2017	9/28/2017	11/22/2017	Dry Crossing	Dry Crossing	Drains to ATW	Yes	Yes	ES-4.32, 4.33	Х	Х	х	
S-H63	Yellow Breeches Creek	40.1922, -76.8942	4	York	Fairview	7/28/2017	12/12/2017	8/2/2017	12/13/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-4.04	Х	Х	Х	
S-H65	UNT to Yellow Breeches Creek	40.1922, -76.8958	4	York	Fairview	7/31/2017	12/14/2017	8/2/2017	12/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-4.03, 4.04	Х	Х	Х	
S-H66	UNT to Yellow Breeches Creek	40.1923, -76.8968	4	York	Fairview	Not Installed	Not Installed	Not Installed	Not Installed	Bore/Temporary Bridge	n/a	Drains to ATW, STS	No	n/a	ES-4.03	Х	n/a	n/a	
S-H67	UNT to Yellow Breeches Creek	40.1925, -76.9054	4	York	Fairview	7/25/2017	12/2/2017	7/31/2017	12/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-4.02	Х	X	Х	
S-I31	UNT to Yellow Breeches Creek	40.1925, -76.8721	4	York	Fairview	6/4/2017	6/4/2017	6/7/2017	6/7/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-4.07	Х	X	Х	
S-I32	UNT to Yellow Breeches Creek	40.1923, -76.8749	4	York	Fairview	11/6/2017 Not Installed	11/29/2017 Not installed	11/15/2017 Not Installed	12/5/2017	Dry Crossing	Bore	Drains to ATW, STS	No	n/a	ES-4.07	X Y	n/a	X	
S-I33 S-I36	UNT to Yellow Breeches Creek Yellow Breeches Creek	40.1923, -76.8874 40.191176.9091	4	York York	Fairview Fairview	Not Installed Not Installed	Not Installed Not Installed	Not installed Not installed	Not Installed Not Installed	Dry Crossing/Temporary Bridge HDD	n/a n/a	Drains to ATW, STS ATW, STS	No No	n/a	ES-4.05 ES-4.100, 4.101	X	n/a n/a	n/a n/a	
S-136 S-A15	Bachman Run	40.1911, -76.9091	4	Lebanon	South Annville	8/16/2017	8/16/2017	8/16/2017	8/16/2017	Dry Crossing	Dry Crossing	ATW, Drains to STS	No.	n/a	FS-5.21	X V	n/a v	n/a v	
S-A17	Snitz Creek	40.290376.4274	5	Lebanon	West Cornwall	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	ATW. Drains to STS	Yes	n/a	FS-5.32	X	n/a	n/a	
S-A19	UNT to Quittapahilla Creek	40.2898, -76.3828	5	Lebanon	South Lebanon	7/26/2017	10/17/2017	7/26/2017	10/17/2017	Dry Crossing	Dry Crossing	Drains to ATW	No	n/a	ES-5.40, 5.41	X	X	X	
S-A23	UNT to Hammer Creek	40.2869, -76.3601	5	Lebanon	South Lebanon	7/20/2017	9/13/2017	7/20/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.45	Х	X	X	
S-A24	Hammer Creek	40.2871, -76.3501	5	Lebanon	South Lebanon	7/15/2017	9/15/2017	7/15/2017	9/15/2017	Dry Crossing	Dry Crossing	ATW, Drains to TNR	Yes	Yes	ES-5.47	Х	Х	х	
S-A25	Hammer Creek	40.2865, -76.3295	5	Lebanon	Heidelberg	9/13/2017	9/29/2017	9/13/2017	9/29/2017	Bore/Travel Lane	Bore/Travel Lane	ATW, TNR	Yes	Yes	ES-5.50, 5.51	Х	n/a	х	
S-A27	UNT to Hammer Creek	40.2862, -76.3156	5	Lebanon	Heidelberg	7/22/2017	9/22/2017	7/22/2017	9/22/2017	Bore/Temporary Bridge	Bore/Temporary Bridge	TNR	Yes	Yes	ES-5.53	Х	n/a	Х	
S-A28	UNT to Hammer Creek	40.2853, -76.3086	5	Lebanon	Heidelberg	7/22/2017	9/23/2017	7/22/2017	9/23/2017	Dry Crossing	Dry Crossing	TNR	Yes	Yes	ES-5.54	Х	Х	Х	
S-C37	UNT to Middle Creek	40.2845, -76.2698	5	Lebanon	Heidelberg	7/18/2017	9/16/2017	7/18/2017	9/16/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-5.61	Х	Х	Х	
S-C86	Middle Creek	40.2851, -76.2404	5	Lebanon	Heidelberg	6/13/2017	Not Installed	8/24/2017	Not Installed	HDD	HDD	Drains to ATW, STS	No	n/a	ES-5.67	Х	n/a	Х	
S-H7	UNT to Hammer Creek	40.2855, -76.2914	5	Lebanon	Heidelberg	6/21/2017	9/21/2017	6/21/2017	9/21/2017	Dry Crossing	Dry Crossing	Drains to TNR	Yes	Yes	ES-5.57, 5.58	X	X	Х	
S-B11	UNT to Little Cocalico Creek	40.2833, -76.1258	5	Lancaster	West Cocalico	9/14/2017	9/14/2017	9/14/2017	9/14/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-5.20	X	X	X	
S-B12	UNT to Little Cocalico Creek	40.2833, -76.1234	5	Lancaster	West Cocalico	6/15/2017	9/9/2017	6/15/2017	9/9/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-5.21	X	X	X	
S-A73 S-B16	UNT to Little Cocalico Creek UNT to Little Cocalico Creek	40.2905, -76.0928 40.2863, -76.1011	5	Berks Berks	South Heidelberg	9/29/2017 6/15/2017	9/29/2017 9/22/2017	9/29/2017 6/15/2017	9/29/2017 9/22/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to ATW, STS Drains to ATW, STS	No No	n/a n/a	ES-5.03 ES-5.01	X X	X	X X	
S-B22	Cacoosing Creek	40.293, -76.0871	5	Berks	South Heidelberg	7/11/2017	7/11/2017	7/11/2017	7/11/2017	Dry Crossing Dry Crossing	Dry Crossing	Drains to ATW, 313	Yes	Yes	ES-5.04	X	n/a	Ŷ	
S-B28	UNT to Allegheny Creek	40.22875.9546	5	Berks	Brecknock	9/13/2017	9/13/2017	9/13/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to ATW. TNR	Yes	Yes	ES-5.45	X	X	×	
S-B29	Allegheny Creek	40.2282, -75.9551	5	Berks	Brecknock	7/14/2017	7/14/2017	7/14/2017	7/14/2017	Dry Crossing	Dry Crossing	ATW. Drains to TNR	Yes	Yes	ES-5.45	X	X	X	
S-B30	UNT to Allegheny Creek	40.2344, -75.9648	5	Berks	Brecknock	Not Installed	Not Installed	Not Installed	Not Installed	Bore/Temporary Bridge	n/a	Drains to ATW, TNR	Yes	n/a	ES-5.42	Х	n/a	n/a	
S-B31	UNT to Wyomissing Creek	40.272, -76.0061	5	Berks	Cumru	9/28/2017	9/28/2017	9/28/2017	9/28/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.30	Х	n/a	х	
S-B32	UNT to Wyomissing Creek	40.2688, -76.0033	5	Berks	Cumru	9/20/2017	9/20/2017	9/20/2017	9/20/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.31	Х	Х	х	
S-B33	UNT to Wyomissing Creek	40.2612, -75.9953	5	Berks	Cumru	8/10/2017	8/10/2017	8/10/2017	8/10/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.33	Х	Х	Х	
S-B42	Little Muddy Creek	40.2805, -76.028	5	Berks	Spring	8/1/2017	8/1/2017	8/1/2017	8/1/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	No	n/a	ES-5.25	Х	X	Х	
S-B43	UNT to Cacoosing Creek	40.2867, -76.0315	5	Berks	Spring	8/19/2017	8/19/2017	8/19/2017	8/19/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.23	Х	n/a	Х	
S-B45 S-B46	UNT to Cacoosing Creek	40.2898, -76.0299	5	Berks	Spring	8/26/2017	8/26/2017	8/26/2017	8/26/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.23	X X	n/a	X X	
S-846 S-K76	UNT to Cacoosing Creek UNT to Cacoosing Creek	40.2904, -76.0286 40.2899, -76.0292	5	Berks Berks	Spring Spring	9/12/2017 9/12/2017	9/12/2017 9/12/2017	9/12/2017 9/12/2017	9/12/2017 9/12/2017	Dry Crossing Dry Crossing	Dry Crossing Dry Crossing	Drains to Class A, TNR Drains to Class A, TNR	Yes	Yes	ES-5.22 ES-5.23	X Y	n/a x	X	
S-R/6 S-B47	UNT to Cacoosing Creek	40.2899, -76.0292	5	Berks	South Heidelberg	9/15/2017	9/12/2017	9/12/2017	9/15/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR Drains to Class A, TNR	Yes	Yes	ES-5.23 ES-5.06	X	X	X	
S-B49	UNT to Cacoosing Creek	40.3042, -76.0645	5	Berks	South Heidelberg	5/23/2017	5/24/2017	5/23/2017	5/24/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.09	X	X	X	
S-B50	Cacoosing Creek	40.3158, -76.0425	5	Berks	Spring	8/29/2017	8/29/2017	8/29/2017	8/29/2017	Dry Crossing	Dry Crossing	Class A. TNR	Yes	Yes	ES-5.14	X	n/a	X	
S-C1	UNT to Allegheny Creek	40.247, -75.9825	5	Berks	Brecknock	8/11/2017	8/11/2017	8/11/2017	8/11/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.37, 5.38	Х	X	X	
S-C7	UNT to Allegheny Creek	40.2374, -75.9697	5	Berks	Brecknock	6/2/2017	6/2/2017	6/2/2017	6/2/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.41	Х	Х	х	
S-C8	UNT to Wyomissing Creek	40.2549, -75.9895	5	Berks	Cumru	Not Installed	Not Installed	Not Installed	Not Installed	Bore	n/a	Drains to ATW, Class A, TNR	No	n/a	ES-5.35	Х	n/a	n/a	
S-C9	UNT to Wyomissing Creek	40.255, -75.9888	5	Berks	Cumru	Not Installed	Not Installed	Not Installed	Not Installed	Bore	n/a	Drains to ATW, Class A, TNR	No	n/a	ES-5.35	Х	n/a	n/a	
S-C11	Wyomissing Creek	40.2561, -75.9915	5	Berks	Cumru	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	ATW, Class A, TNR	No	n/a	ES-5.34, 5.35	Х	n/a	n/a	
S-C30	UNT to Cacoosing Creek	40.3031, -76.0256	5	Berks	Spring	8/31/2017	8/31/2017	8/31/2017	8/31/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.19	Х	n/a	X	
S-C31	UNT to Cacoosing Creek	40.2985, -76.0237	5	Berks	Spring	8/26/2017	8/26/2017	8/26/2017	8/26/2017	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.20	X X	X	X	
S-C32 S-C33	UNT to Cacoosing Creek	40.2969, -76.0233	5	Berks Berks	Spring	7/14/2017 Not Installed	7/14/2017 Not Installed	7/14/2017 Not Installed	7/14/2017 Not Installed	Dry Crossing	Dry Crossing	Drains to Class A, TNR	Yes	Yes n/a	ES-5.21 ES-5.21	Х	n/a n/a	X	
S-C33 S-C101	UNT to Cacoosing Creek UNT to Sleepy Hollow Run	40.2946, -76.0249 40.2193, -75.9415	5	Berks Berks	Spring Brecknock	8/20/2017	8/28/2017	8/20/2017	8/28/2017	Dry Crossing Dry Crossing	n/a Dry Crossing	Drains to Class A, TNR Drains to Class A, TNR	Yes	n/a Yes	ES-5.21 ES-5.48	X	n/a n/a	n/a X	
S-C101 S-C103	UNT to Sleepy Hollow Run	40.2193, -75.9415	5	Berks Berks	Brecknock	8/20/2017	8/28/2017	8/20/2017	8/28/2017	Dry Crossing	Dry Crossing Dry Crossing	Drains to Class A, TNR	Yes	Yes	ES-5.48 ES-5.49	X	n/a n/a	X	
S-C103	UNT to Rock Run	40.2155, -75.9373	5	Berks	Brecknock	8/2/2017	8/2/2017	8/2/2017	8/2/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.49	X	n/a	X	
S-C104 S-C107	UNT to Rock Run	40.2115, -75.9291	5	Berks	Brecknock	Not Installed	Not Installed	Not Installed	Not Installed	Bore/Temporary Bridge	n/a	Drains to ATW, TNR	Yes	n/a	ES-5.51	X	n/a	n/a	
S-C108	UNT to Rock Run	40.2109, -75.9282	5	Berks	Brecknock	9/22/2017	9/22/2017	9/22/2017	9/22/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.51	X	n/a	Х Х	
S-H13	Hay Creek	40.1999, -75.9116	5	Berks	New Morgan	6/7/2017	6/7/2017	6/7/2017	6/7/2017	Dry Crossing	Dry Crossing	ATW, Class A, TNR	Yes	Yes	ES-5.55	Х	X	Х	
S-H15	UNT to Hay Creek	40.1999, -75.9114	5	Berks	New Morgan	Avoided	Avoided	Avoided	Avoided	Dry Crossing	Resource Avoided	Drains to ATW, Class A, TNR	No	n/a	ES-5.55	Х	n/a	n/a	
S-H16	UNT to Hay Creek	40.1964, -75.9058	5	Berks	New Morgan	6/19/2017	6/19/2017	6/19/2017	6/19/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.56	Х	n/a	Х	
S-H17	UNT to Hay Creek	40.191, -75.8974	5	Berks	New Morgan	6/22/2017	6/22/2017	6/22/2017	6/22/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.58, 5.59	Х	n/a	Х	
S-H18	UNT to Hay Creek	40.1907, -75.8961	5	Berks	New Morgan	6/22/2017	6/22/2017	6/22/2017	6/22/2017	Dry Crossing	Dry Crossing	Drains to ATW, Class A, TNR	Yes	Yes	ES-5.59	X	n/a	Х	

EXHIBIT 1
Crossings of a wild trout, stocked and wild trout fishery, stocked trout fishery, and Class A trout fishery

Stream	Stream Name	Casadinatas	C	Country	Municipality	Date Construc	ction Initiated	Date Construc	ction Completed	Permitted Method	Utilized Method	Fishery	Seasonal		Complied	E&S Plan Sheet	Available	Photograp	phic Record
ID/#	Stream Name	Coordinates	Spread #	County	Municipality	20" pipe	16" pipe	20" pipe	16" pipe	of pipe installation	of pipe installation	Designation	Restriction	Restriction	Number	Before	During	After	
S-H21	UNT to Rock Run	40.2041, -75.9175	5	Berks	Robeson	7/31/2017	7/31/2017	9/9/2017	8/16/2017	Bore/Temporary Bridge	FlexBor	Drains to ATW, TNR	Yes	Yes	ES-5.54	Х	n/a	Х	
S-H22	UNT to Rock Run	40.209, -75.9259	5	Berks	Brecknock	9/17/2017	9/17/2017	9/17/2017	9/17/2017	Dry Crossing	Dry Crossing	Drains to ATW, TNR	Yes	Yes	ES-5.52	Х	n/a	Х	
S-H23	Rock Run	40.2094, -75.9263	5	Berks	Brecknock	9/17/2017	9/17/2017	9/17/2017	9/17/2017	Dry Crossing	Dry Crossing	TNR, Drains to ATW	Yes	Yes	ES-5.52	Х	n/a	X	
S-Q89	UNT to Hay Creek	40.1888, -75.8886	5	Berks	New Morgan	Not Installed	Not Installed	Not Installed	Not Installed	Bore	n/a	Drains to ATW, Class A, TNR	No	n/a	ES-5.60	Х	n/a	n/a	
S-Q90	UNT to Hay Creek	40.189, -75.8909	5	Berks	New Morgan	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, Class A, TNR	Yes	n/a	ES-5.60	Х	n/a	n/a	
S-B79	UNT to Valley Creek	40.0297, -75.6187	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.47, 6.48	Х	n/a	n/a	
S-B81	Valley Creek	40.0314, -75.62	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	ATW, Drains to STS	Waived	n/a	ES-6.47	Х	n/a	n/a	
S-C59	UNT to Valley Creek	40.0379, -75.6328	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.44, 6.45	Х	n/a	n/a	
S-C60	UNT to Valley Creek	40.0377, -75.6326	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.45	Х	n/a	n/a	
S-C61	UNT to Valley Creek	40.0383, -75.6339	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	Drains to ATW, STS	Waived	n/a	ES-6.44	Х	n/a	n/a	
S-C63	UNT to Valley Creek	40.0477, -75.6503	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.41	Х	n/a	n/a	
S-C64	UNT to Valley Creek	40.0496, -75.6552	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	Drains to ATW, STS	Waived	n/a	ES-6.40	Х	n/a	n/a	
S-C66	UNT to Valley Creek	40.0368, -75.6288	6	Chester	West Whiteland	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing/Temporary Bridge	n/a	Drains to ATW, STS	Waived	n/a	ES-6.45	Х	n/a	n/a	
S-C67	UNT to Shamona Creek	40.0636, -75.6813	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.35	Х	n/a	n/a	
S-C68	UNT to Shamona Creek	40.0634, -75.681	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.35	Х	n/a	n/a	
S-C69	UNT to Shamona Creek	40.0632, -75.6803	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.35	Х	n/a	n/a	
S-C72	UNT to Black Horse Creek	40.0845, -75.7203	6	Chester	Upper Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to TNR	Yes	n/a	ES-6.27	Х	n/a	n/a	
S-C73	Black Horse Creek	40.0852, -75.7227	6	Chester	Upper Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	TNR	Yes	n/a	ES-6.26	Х	n/a	n/a	
S-H3	UNT to Shamona Creek	40.0642, -75.6824	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.34	Х	n/a	n/a	
S-H4	UNT to Shamona Creek	40.0644, -75.6825	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.34	Х	n/a	n/a	
S-H5	Shamona Creek	40.0615, -75.6776	6	Chester	Uwchlan	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	TNR	No	n/a	ES-6.35	Х	n/a	n/a	
S-B36	UNT to Chester Creek	39.9437, -75.502	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Waived	n/a	ES-6.03	Х	n/a	n/a	
S-B37	UNT to Chester Creek	39.9421, -75.4982	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Waived	n/a	ES-6.03, 6.04	Х	n/a	n/a	
S-B38	UNT to Chester Creek	39.9418, -75.4974	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	Drains to ATW, STS	Waived	n/a	ES-6.03, 6.04	Х	n/a	n/a	
S-B52	UNT to Chester Creek	39.9408, -75.4943	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.04	Х	n/a	n/a	
S-B54	UNT to Chester Creek	39.9405, -75.4942	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.04	Х	n/a	n/a	
S-B55	UNT to Chester Creek	39.9405, -75.4947	6	Delaware	Edgmont	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.04	Х	n/a	n/a	
S-C16	UNT to Chester Creek	39.9042, -75.4454	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing/Temporary Bridge	n/a	Drains to ATW, STS	Waived	n/a	ES-6.17	Х	n/a	n/a	
S-C23	UNT to Chester Creek	39.9054, -75.4469	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.16	Х	n/a	n/a	
S-C24	UNT to Chester Creek	39.9067, -75.448	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.16	Х	n/a	n/a	
S-C25	UNT to Chester Creek	39.9065, -75.448	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.16	Х	n/a	n/a	
S-C26	UNT to Rocky Run	39.9077, -75,4505	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to TNR	Waived	n/a	ES-6.16	Х	n/a	n/a	
S-C40	UNT to Chester Creek	39.9156, -75.4595	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.13	Х	n/a	n/a	
S-C42	UNT to Chester Creek	39.920675.4637	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.12	X	n/a	n/a	
S-C43	UNT to Chester Creek	39.927475.47	6	Delaware	Edemont	11/1/2017	12/13/2017	11/1/2017	12/13/2017	Dry Crossing	Dry Crossing	Drains to ATW, STS	Waived	n/a	ES-6.10	X	X	X	
S-C44	Rocky Run	39.910275.4571	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	Dry Crossing	n/a	TNR	Yes	n/a	ES-6.14	X	n/a	n/a	
S-H34	UNT to Chester Creek	39.873775.4125	6	Delaware	Middletown	9/11/2017	9/11/2017	9/13/2017	9/13/2017	Dry Crossing	Dry Crossing	Drains to STS*	Yes	n/a	ES-6.26	X	х х	х х	
S-H37	Chester Creek	39.8775.4111	6	Delaware	Middletown	Not Installed	Not Installed	Not Installed	Not Installed	HDD	n/a	ATW. STS	Waived	n/a	ES-6.26, 6.27	X	n/a	n/a	
S-H39	UNT to Chester Creek	39.8687, -75.4104	6	Delaware	Aston	Not Installed	Not Installed	Not Installed	Not Installed	Clearing LOD	n/a	Drains to ATW, STS	Waived	n/a	ES-6.27	X	n/a	n/a	
S-H41	Chester Creek	39.8659, -75.4069	6	Delaware	Aston	Not installed	Not Installed	Not Installed	Not Installed	HDD	n/a	ATW. STS	Waived	n/a	ES-6.28	X	n/a	n/a	
5-1141	UNT to Chester Creek	39.8942, -75.4314	6	Delaware	Middletown	Not installed	Not Installed	Not Installed	Not Installed	HDD/Temporary Bridge	n/a	Drains to ATW, STS	Yes	n/a	ES-6.20	X	n/a	n/a	
S.15	UNT to Chester Creek	39.8919, -75.4293	6	Delaware	Middletown	9/29/2017	9/8/2017	9/29/2017	9/8/2017	Dry Crossing/Temporary Bridge	Dry Crossing/Temporary Bridge	Drains to ATW, STS	Ves	Ves	ES-6.21	X	II/a X	11/а	
	UNT to Chester Creek	39.89275.4294	6	Delaware	Middletown	9/29/2017	9/8/2017	9/29/2017	9/8/2017	Dry Crossing/Temporary Bridge	Dry Crossing/Temporary Bridge	Drains to ATW, STS	Voc	Vac	ES-6.21	Y Y	X	Y Y	