APPENDIX F

Waterbodies Crossed by the Projects

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APPENDIX F-1

Waterbodies Crossed by the Projects

Mountain Valley Project

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APPENDIX F1

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft) d/	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method e/	Pipeline Burial Depth (ft)[3] f/	FERC Classification	Classification g/ , h/	Fishery Type i/	Fish Species j/	Time of Year Restriction k/
WEST VIRGINIA																		
Wetzel																		
S-J63	UNT to Mobley Run	0.0	Int	RPW	3.0	-	<0.1	-	-	Ancillary Site Temporary	MOBLEY IC LOD	TF	-	Minor	B, C	-	-	-
S-ST13	UNT to Mobley Run~	0.0	Int	RPW	3.0	-	<0.1	-	-	Ancillary Site Temporary	MOBLEY IC LOD	TF	-	Minor	B, C	-	-	-
S-ST13	UNT to Mobley Run	0.0	Int	RPW	3.0	-	0.0	-	-	Permanent Aboveground Facility	MOBLEY IC PAD	Fill / Culvert	-	Minor	B, C	-	-	-
S-ST14	UNT to Mobley Run~	0.0	Eph	NRPW	2.0	-	<0.1	-	-	Ancillary Site Temporary	MOBLEY IC LOD	TF	-	Minor	-	-	-	-
S-ST14	UNT to Mobley Run	0.0	Eph	NRPW	2.0	-	0.0	-	-	Permanent Aboveground Facility	MOBLEY IC PAD	Fill / Culvert	-	Minor	-	-	-	-
S-ST18	UNT to Mobley Run^	0.0	Int	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-001	Fill / Culvert	-	Minor	B, C	-	-	-
S-ST18	UNT to Mobley Run^~	0.0	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-001	TF	-	Minor	B, C	-	-	-
S-ST10	UNT to Mobley Run	0.1	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-000	Fill / Culvert	-	Minor	B, C	-	-	-
S-ST10	UNT to Mobley Run~	0.1	Int	RPW	4.0	-	<0.1	-	-	Ancillary Site Temporary	MOBLEY IC LOD	TF	-	Minor	B, C	-	-	-
S-WX2	Mobley Run	0.1	Per	RPW	8.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-024	TF	-	Minor	B, C	-	-	-
S-A1a	North Fork Fishing Creek*+	0.7	Per	RPW	35.0	37.2	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	A, B, C	WW, M	-	April 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A3a	UNT to North Fork Fishing Creek	0.8	Int	RPW	9.0	9.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-J65	UNT to North Fork Fishing Creek	1.3	Per	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-006	TF	-	Minor	B, C	-	-	-
S-J66	UNT to North Fork Fishing Creek	1.3	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A5a	UNT to Fallen Timber Run*	2.3	Int	RPW	4.0	6.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A6a	Fallen Timber Run*+	2.3	Per	RPW	20.0	21.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	B, C	-	-	-
S-AA9	UNT to Fallen Timber Run	2.7	Per	RPW	8.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-RD-001	TF	-	Minor	B, C	-	-	-
S-BB11	UNT to Fallen Timber Run	2.7	Per	RPW	15.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-RD-001	TF	-	Intermediate	B, C	-	-	-
S-KL11	Fallen Timber Run	2.7	Per	RPW	7.5	-	<0.1	-	-	Ancillary Site Temporary	MVP-RD-001	TF	-	Minor	B, C	-	-	-
S-AA3	UNT to Fallen Timber Run	2.8	Per	RPW	8.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-RD-001	TF	-	Minor	B, C	-	-	-
S-A126	UNT to Price Run^	4.9	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-006	TF	-	Minor	-	-	-	-
S-A124	UNT to Price Run*	5.0	Int	RPW	12.0	13.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
S-A125	Price Run*+	5.0	Per	RPW	35.0	36.4	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A115	Price Run*+	5.4	Per	RPW	30.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-013	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-A115	Price Run*+	5.4	Per	RPW	30.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-013	TF	-	Intermediate	B, C	-	-	-
S-A116	UNT to Price Run*	5.4	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-013	Fill / Culvert	-	Minor	B, C	-	-	-
S-A116	UNT to Price Run~	5.4	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-013	TF	-	Minor	B, C	-	-	-
S-A117	UNT to Price Run	5.5	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-013	Fill / Culvert	-	Minor	B, C	-	-	-
S-A117	UNT to Price Run~	5.5	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-013	TF	-	Minor	B, C	-	-	-
S-A118	UNT to Price Run	5.5	Int	RPW	6.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A120	Stout Run~	6.5	Int	RPW	6.0	8.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-KL10	UNT to Stout Run	6.5	Int	RPW	3.7	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-014.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-KL10	UNT to Stout Run	6.5	Int	RPW	3.7	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-014.01	TF	-	Minor	B, C	-	-	-
S-A119	UNT to Stout Run	6.6	Int	RPW	5.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A120	Stout Run	6.6	Int	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-014.02	Fill / Culvert	-	Minor	B, C	-	-	-
S-A120	Stout Run	6.6	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-014.02	TF	-	Minor	B, C	-	-	-
S-A121	UNT to Stout Run	6.6	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-014.02	Fill / Culvert	-	Minor	B, C	-	-	-
S-A121	UNT to Stout Run	6.6	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-014.02	TF	-	Minor	B, C	-	-	-
S-QR34	UNT to Stout Run	6.6	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-014.02	Fill / Culvert	-	Minor	-	-	-	-
S-QR34	UNT to Stout Run~	6.6	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-014.02	TF	-	Minor	-	-	-	-
S-A114	UNT to Sams Run	7.3	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-015	TF	-	Minor	-	-	-	-
S-A113	UNT to South Fork Fishing Creek	7.6	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-015	TF	-	Minor	B, C	-	-	-
S-A113	UNT to South Fork Fishing Creek	7.6	Int	RPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-750	TF	-	Minor	B, C	-	-	-
S-J60	Sams Run*	7.9	Per	RPW	14.0	14.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	B, C	-	-	-
S-J58	UNT to Manion Run	8.7	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-016	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-J59	UNT to Manion Run	8.7	Int	RPW	3.0	-	<0.1	-	0.0	Access Roads Work Space Permanent	MVP-WE-016	Fill / Culvert	-	Minor	B, C	-	-	-
S-J59	UNT to Manion Run~	8.7	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-016	TF	-	Minor	B, C	-	-	-
S-J56	Manion Run	8.8	Per	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WE-016	Fill / Culvert	-	Minor	B, C	-	-	-
S-J56	Manion Run	8.8	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-016	TF	-	Minor	B, C	-	-	-
S-J56	Manion Run~	8.8	Per	RPW	10.0	10.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-J61	UNT to Manion Run	8.8	Eph	NRPW	2.0	-	<0.1	-	0.0	Access Roads Work Space Permanent	MVP-WE-016	Fill / Culvert	-	Minor	-	-	-	-
S-J61	UNT to Manion Run	8.8	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WE-016	TF	-	Minor	-	-	-	-
Harrison																		
S-J62	Right Fork Big Elk Creek	11.2	Per	RPW	8.0	8.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B75 / F49	UNT to Goose Run	12.0	Int	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B74	Goose Run	12.1	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1477	TF	-	Minor	B, C	-	-	-
S-B74	Goose Run	12.1	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B75 / F49	UNT to Goose Run	12.1	Int	RPW	3.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B76	UNT to Goose Run^	12.1	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1477	TF	-	Minor	-	-	-	-
S-WX1	UNT to Goose Run	12.1	Int	RPW	1.0	-	<0.1	-	-	ATWS	MVP-ATWS-1477	TF	-	Minor	B, C	-	-	-
S-B79	UNT to Big Elk Creek	13.3	Eph	NRPW	1.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-HA-020	Fill / Culvert	-	Minor	-	-	-	-
S-B79	UNT to Big Elk Creek~	13.3	Eph	NRPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-020	TF	-	Minor	-	-	-	-
S-B78	UNT to Big Elk Creek	13.7	Eph	NRPW	1.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-HA-020	Fill / Culvert	-	Minor	-	-	-	-
S-B78	UNT to Big Elk Creek~	13.7	Eph	NRPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-020	TF	-	Minor	-	-	-	-
S-J51	Little Tenmile Creek+	15.2	Per	RPW	30.0	30.5	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
S-J54	UNT to Little Tenmile Creek~	15.2	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-04	Fill / Culvert	-	Minor	B, C	-	-	-
S-PP8	UNT to Jones Creek	15.3	Per	RPW	5.0	-	0.1	-	-	Ancillary Site Temporary	MVP-LY-002	TF	-	Minor	B, C	-	-	-
S-B80 / J50	UNT to Little Tenmile Creek*	15.4	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-458	TF	-	Minor	-	-	-	-
S-QR35	Jake Run	15.6	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-024	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A10a	Little Rockcamp Run*+	17.8	Per	RPW	12.0	12.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-A130	UNT to Rockcamp Run	18.7	Int	RPW	5.5	-	<0.1	-	-	ATWS	MVP-ATWS-758	TF	-	Minor	B, C	-	-	-
S-B2a	UNT to Rockcamp Run	18.7	Eph	NRPW	8.0	8.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B3a	Rockcamp Run	18.7	Per	RPW	20.0	26.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-A128	Rockcamp Run*+	18.8	Per	RPW	48.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-HA-026	Fill / Culvert	-	Intermediate	B, C	WW, M	-	April 1 - June 30
S-RR22	UNT to Grass Run*	20.8	Per	RPW	12.0	12.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	-	-	-
S-ST20	UNT to Grass Run	21.5	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-028.01	TF	-	Minor	B, C	-	-	-
S-A11a	Grass Run*	21.6	Per	RPW	12.0	13.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	-	-	-
S-A11a-Braid-1	Grass Run*	21.6	Int	RPW	6.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-A11a-Braid-2	Grass Run*	21.6	Int	RPW	6.0	12.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-F55	UNT to Indian Run^~	22.3	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-HA-029	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

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S-F55-Braid	UNT to Indian Run~	22.3	Int	RPW	1.5	-	<0.1	-	0.0	Access Roads Work Space Permanent	MVP-HA-029	Fill / Culvert	-	Minor	B, C	-	-	-
S-OP12	UNT to Indian Run~	22.5	Eph	NRPW	2.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-HA-029	Fill / Culvert	-	Minor	-	-	-	-
S-OP8	UNT to Indian Run	22.7	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-029.03	TF	-	Minor	-	-	-	-
S-OP9	UNT to Indian Run^	22.7	Eph	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-029.03	TF	-	Minor	-	-	-	-
S-B6a	Indian Run*	23.0	Per	RPW	30.0	34.9	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-B7a	UNT to Indian Run*	23.0	Int	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-IJ38	UNT to Salem Fork^	25.7	Eph	NRPW	2.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-003	TF	-	Minor	-	-	-	-
S-UU3	Salem Fork*+	25.9	Per	RPW	60.0	60.9	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-B81	UNT to Salem Fork^	26.0	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-032	TF	-	Minor	B, C	WW, M	-	-
S-UU5	Halls Run	30.1	Per	RPW	4.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-F48	UNT to Halls Run^	30.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-040	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-K73	Coburn Fork+	31.2	Per	RPW	5.0	6.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K74	UNT to Coburn Fork	31.2	Eph	NRPW	2.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-K75	UNT to Coburn Fork	31.3	Int	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K80	UNT to Turtletree Fork	32.7	Int	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-2	UNT to Turtletree Fork	32.8	Eph	NRPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTWV-S-K81	Turtletree Fork	32.9	Per	RPW	32.9	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
TTWV-S-4	UNT to Turtletree Fork	33.0	Int	RPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-052	TF	-	Minor	B, C	-	-	-
TTWV-S-4	UNT to Turtletree Fork	33.0	Int	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A108	UNT to Kincheloe Creek^	37.8	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-050	TF	-	Minor	-	-	-	-
S-A108	UNT to Kincheloe Creek^	37.8	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1063	TF	-	Minor	-	-	-	-
S-A105	UNT to Kincheloe Creek	37.9	Eph	NRPW	4.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A106	UNT to Kincheloe Creek^	37.9	Eph	NRPW	2.5	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-K82	UNT to Kincheloe Creek*	38.0	Per	RPW	17.5	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
Doddridge																		
S-IJ42	UNT to Buckeye Creek	31.5	Int	RPW	2.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-013	TF	-	Minor	B, C	-	-	-
S-K77	Traugh Fork	32.4	Int	RPW	4.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K78	UNT to Traugh Fork^	32.5	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K69 / K70	UNT to Big Issac Creek^	33.9	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-DO-044	TF	-	Minor	-	-	-	-
S-K69 / K70	UNT to Big Issac Creek^	33.9	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-DO-044	TF	-	Minor	B, C	-	-	-
S-K67	UNT to Big Issac Creek*	34.1	Int	RPW	10.0	10.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K63	UNT to Big Issac Creek^	34.2	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K65	UNT to Big Issac Creek	34.2	Int	RPW	8.0	8.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K54	UNT to Big Issac Creek*	34.3	Int	RPW	7.0	7.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-K55	UNT to Big Issac Creek*	34.3	Eph	NRPW	5.0	-	<0.1	0.0	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-K71	UNT to Big Issac Creek	34.4	Int	RPW	9.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-DO-046	TF	-	Minor	B, C	-	-	-
S-K58	UNT to Big Issac Creek*	34.5	Eph	NRPW	2.5	2.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-K72	UNT to Big Issac Creek*	34.5	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-DO-047	TF	-	Minor	B, C	-	-	-
S-K59	UNT to Big Issac Creek*^	34.6	Eph	NRPW	2.5	2.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-K60	UNT to Big Issac Creek*^	34.6	Eph	NRPW	4.0	4.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A110 / K62	UNT to Laurel Run~	34.7	Int	RPW	7.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-A109	UNT to Laurel Run*	34.8	Int	RPW	8.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-A110 / K62	UNT to Laurel Run*	34.8	Int	RPW	1.0	-	<0.1	-	-	ATWS	MVP-ATWS-053	TF	-	Minor	B, C	-	-	-
S-A110 / K62	UNT to Laurel Run*	34.8	Int	RPW	1.0	1.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A111	Laurel Run*	34.8	Per	RPW	14.0	14.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	-	-	-
S-K94	Lewis Kincheloe Creek*	38.0	Per	RPW	20.0	20.7	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-K95	UNT to Kincheloe Creek*	38.0	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-HA-051	TF	-	Minor	B, C	-	-	-
S-K92	UNT to Smoke Camp Run	39.7	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-054	Fill / Culvert	-	Minor	B, C	-	-	-
S-K92	UNT to Smoke Camp Run	39.7	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-054	TF	-	Minor	B, C	-	-	-
S-K91	UNT to Smoke Camp Run	39.9	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-054	Fill / Culvert	-	Minor	-	-	-	-
S-K93	UNT to Smoke Camp Run	39.9	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-054	Fill / Culvert	-	Minor	B, C	-	-	-
S-I67	Smoke Camp Run	41.2	Per	RPW	8.0	8.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-VV7	UNT to Smoke Camp Run	41.2	Int	RPW	10.0	-	<0.1	-	-	ATWS	MVP-ATWS-059	TF	-	Minor	B, C	-	-	-
S-VV25	UNT Smoke Camp Run^	41.7	Eph	NRPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-055	TF	-	Minor	-	-	-	-
S-I68	UNT to Smoke Camp Run	41.8	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-055	TF	-	Minor	B, C	-	-	-
S-I69	Smoke Camp Run	41.8	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-055	TF	-	Minor	B, C	-	-	-
S-LL2	UNT to Smoke Camp Run^	41.8	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-055	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-LL2	UNT to Smoke Camp Run^	41.8	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-836	TF	-	Minor	B, C	-	-	-
S-J43	Right Fork Freemans Creek*	42.5	Per	RPW	25.0	25.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-J44	UNT to Right Fork Freemans Creek	43.1	Per	RPW	5.0	5.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-UV8	UNT to Right Fork Freemans Creek	43.3	Eph	NRPW	1.0	-	0.0	-	0.0	Access Roads Work Space Permanent	MVP-LE-057.03	Fill / Culvert	-	Minor	-	-	-	-
S-UV8	UNT to Right Fork Freemans Creek	43.3	Eph	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-057.01	TF	-	Minor	-	-	-	-
S-UV8	UNT to Right Fork Freemans Creek^	43.3	Eph	NRPW	1.0	-	<0.1	-	-	ATWS	MVP-ATWS-839	TF	-	Minor	-	-	-	-
S-UV9	UNT to Right Fork Freemans Creek^	43.3	Int	RPW	1.0	-	<0.1	-	-	ATWS	MVP-ATWS-839	TF	-	Minor	B, C	-	-	-
S-PP7	UNT to Fink Creek^	44.4	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-851	TF	-	Minor	-	-	-	-
S-K51	Fink Creek+	44.6	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-062	TF	-	Minor	B, C	WW, M	-	April 1 - June 30
S-J46	Fink Creek+	44.7	Per	RPW	15.0	15.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-J47b	UNT to Fink Creek	44.8	Int	RPW	3.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-K52	UNT to Fink Creek	44.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-061	TF	-	Minor	-	-	-	-
S-K53	UNT to Fink Creek	44.8	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-061	TF	4	Intermediate	B, C	-	-	-
S-J49	UNT to Left Fork Freemans Creek^	45.5	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-063	TF	-	Minor	-	-	-	-
S-B67	Left Fork Freemans Creek*	45.8	Per	RPW	12.0	12.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	-	-	-
S-K46	UNT to Left Fork Freemans Creek*^	45.8	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B68	UNT to Left Fork Freemans Creek	45.9	Int	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-065	TF	-	Minor	B, C	-	-	-
S-B71	UNT to Left Fork Freemans Creek^	45.9	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-065	TF	-	Minor	-	-	-	-
S-B69	UNT to Left Fork Freemans Creek^	46.0	Eph	NRPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-065	TF	-	Minor	-	-	-	-
S-B70	UNT to Left Fork Freemans Creek^	46.0	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-065	TF	-	Minor	-	-	-	-
S-B72	UNT to Left Fork Freemans Creek^	46.2	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-066.02	Fill / Culvert	-	Minor	-	-	-	-
S-H183	UNT to Left Fork Freemans Creek*^	46.6	Eph	NRPW	5.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H184	UNT to Left Fork Freemans Creek*^	46.6	Eph	NRPW	10.0	10.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H184a	UNT to Left Fork Freemans Creek*^	46.6	Eph	NRPW	10.0	10.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H180	UNT to Left Fork Freemans Creek*^	46.7	Int	RPW	13.0	13.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
S-H172	UNT to Leading Creek^	47.6	Eph	NRPW	5.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H170	UNT to Leading Creek^	47.9	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-1384	TF	-	Minor	-	-	-	-
S-H170	UNT to Leading Creek^	47.9	Eph	NRPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-I64	Leading Creek	47.9	Per	RPW	4.0	4.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW, TE	Snuffbox	April 1 - June 30
TTWV-S-217	UNT to Leading Creek	47.9	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-075	TF	-	Minor	B, C	WW, TE	Snuffbox	April 1 - June 30
S-KK3a	UNT to Laurel Run^	51.0	Eph	NRPW	2.0	2.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KK5	UNT to Laurel Run	51.1	Int	RPW	3.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-KK6	UNT Laurel Run	51.1	Int	RPW	3.0	5.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-KK7	Laurel Run	51.1	Per	RPW	6.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L81	UNT to Cove Lick	51.8	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-070	Fill / Culvert	-	Minor	B, C	-	-	-
S-L81	UNT to Cove Lick	51.8	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-070	TF	-	Minor	B, C	-	-	-
S-K43	Cove Lick+	52.3	Per	RPW	7.0	11.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K45	UNT to Cove Lick^	52.3	Eph	NRPW	1.0	-	<0.1	-	-	ATWS	MVP-ATWS-079	TF	-	Minor	-	-	-	-
S-K38	UNT to Rock Run*^	53.1	Eph	NRPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-L78	UNT to Rock Run	54.0	Per	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-072	TF	-	Intermediate	B, C	WW	-	-
S-L79	Rock Run	54.0	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-072	TF	-	Minor	B, C	WW	-	-
S-I63	Sand Fork+	55.1	Per	RPW	20.0	-	0.0	-	-	Anode Bed Permanent Workspace	-	Fill / Culvert	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-I63	Sand Fork+	55.1	Per	RPW	20.0	20.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-H159	UNT to Indian Fork*^	58.5	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-1435	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H160	Indian Fork*+	58.5	Per	RPW	23.0	23.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	A, B, C	-	-	-
S-H158 / H161	UNT to Indian Fork^	58.6	Int	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L76	Indian Fork+	58.9	Per	RPW	15.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-074	Fill / Culvert	-	Intermediate	A, B, C	-	-	-
S-H152	UNT to Sugar Camp Run*^	59.4	Eph	NRPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-H153	UNT to Sugar Camp Run*	59.4	Per	RPW	15.0	15.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW	-	-
S-H145	UNT to Indian Fork*	59.9	Per	RPW	15.0	18.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-H165	UNT to Indian Fork*^	59.9	Eph	NRPW	6.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H166	UNT to Indian Fork*^	59.9	Eph	NRPW	7.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-L73	Indian Fork*+	59.9	Per	RPW	15.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-076	Fill / Culvert	3 or 4	Intermediate	A, B, C	-	-	-
S-L73	Indian Fork*+	59.9	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-076	TF	3 or 4	Intermediate	A, B, C	-	-	-
S-H144	UNT to Threelick Run	60.1	Eph	NRPW	6.0	6.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H163	UNT to Indian Fork	60.1	Int	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-208	Threelick Run*	60.3	Per	RPW	9.0	13.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-209	UNT to Threelick Run*	60.3	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-216	UNT to Threelick Run*	60.3	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-479	TF	-	Minor	-	-	-	-
TTWV-S-216	UNT to Threelick Run*	60.3	Eph	NRPW	3.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-VV15	UNT to Second Big Run	61.1	Eph	NRPW	3.0	-	0.0	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-CD16	UNT to Second Big Run^	61.2	Int	RPW	3.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-VV13	Second Big Run	61.2	Per	RPW	15.0	20.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	B, C	-	-	-
S-VV11	UNT to Second Big Run	61.3	Eph	NRPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-796	TF	-	Minor	-	-	-	-
S-VV11	UNT to Second Big Run	61.3	Eph	NRPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-VV12	UNT to Second Big Run	61.3	Per	RPW	12.0	12.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	B, C	-	-	-
S-VV13d	Second Big Run	61.3	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-CD17	UNT to Second Big Run^	61.4	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-CD18	UNT to Second Big Run	61.4	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-VV13b	Second Big Run	61.4	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-VV13c	Second Big Run	61.4	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-VV20	UNT to Second Big Run	61.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV18	UNT to Second Big Run	61.7	Eph	NRPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV18	UNT to Second Big Run	61.7	Eph	NRPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV19	UNT to Second Big Run	61.7	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-CD19	UNT to Second Big Run	61.8	Eph	NRPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV16	UNT to Second Big Run^	61.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV16	UNT to Second Big Run^	61.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-VV17	UNT to Second Big Run	61.8	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-CD20	UNT to Second Big Run^	61.9	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-CD21	UNT to Second Big Run^	61.9	Int	RPW	0.8	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-CD21-Braid	UNT to Second Big Run^	61.9	Int	RPW	0.8	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	-	-	-	-
S-VV13a	Second Big Run	61.9	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.02	TF	-	Minor	B, C	-	-	-
S-UV11	Oil Creek+	62.2	Per	RPW	15.0	15.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-VV21	UNT to Oil Creek^~	62.4	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-077.03	Fill / Culvert	-	Minor	-	-	-	-
S-VV21	UNT to Oil Creek^	62.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.03	TF	-	Minor	-	-	-	-
S-VV22	UNT to Oil Creek^~	62.5	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-077.03	Fill / Culvert	-	Minor	-	-	-	-
S-VV22	UNT to Oil Creek^	62.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-077.03	TF	-	Minor	-	-	-	-
S-L61	Crooked Run	63.0	Int	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-083	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-L61	Crooked Run	63.0	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-083	TF	-	Minor	-	-	-	-
S-L63	UNT to Crooked Run	63.0	Int	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-083	Fill / Culvert	-	Minor	-	-	-	-
S-L63	UNT to Crooked Run	63.0	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-083	TF	-	Minor	-	-	-	-
S-L64	UNT to Crooked Run	63.0	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-LE-083	Fill / Culvert	-	Minor	B, C	-	-	-
S-L64	UNT to Crooked Run	63.0	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-083	TF	-	Minor	B, C	-	-	-
S-UU7	UNT to Clover Fork	65.1	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-LE-084	TF	-	Minor	-	-	-	-
TTWV-S-132	UNT to Clover Fork	65.3	Int	RPW	8.0	-	<0.1	-	-	ATWS	MVP-ATWS-435	TF	-	Minor	-	-	-	-
S-VV9	UNT to Clover Fork	65.4	Per	RPW	10.0	10.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-VV2	Braxton Clover Fork	65.4	Per	RPW	20.0	22.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-VV3	UNT to Clover Fork	65.5	Eph	NRPW	8.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-OP4	UNT to Barbecue Run^~	67.1	Int	RPW	1.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-086.01	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-OP4	UNT to Barbecue Run^	67.1	Int	RPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-086.01	TF	-	Minor	B, C	-	-	-
S-OP3	UNT to Barbecue Run	67.2	Per	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-086.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-OP3	UNT to Barbecue Run	67.2	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-086.01	TF	-	Minor	B, C	-	-	-
S-J37	UNT to Barbecue Run*^	67.4	Int	RPW	3.0	3.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L51	Barbecue Run*	67.4	Per	RPW	20.0	23.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-L57	UNT to Barbecue Run	68.4	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-088	TF	-	Minor	-	-	-	-
S-L57	UNT to Barbecue Run	68.4	Eph	NRPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-886	TF	-	Minor	-	-	-	-
S-L58	Barbecue Run	68.4	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-088	TF	-	Intermediate	B, C	-	-	-
S-L58	Barbecue Run	68.4	Per	RPW	15.0	-	<0.1	-	-	ATWS	MVP-ATWS-888	TF	-	Intermediate	B, C	-	-	-
S-L60	Left Fork Knawl Creek*^	68.7	Per	RPW	30.0	30.1	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-LL1	Knawl Creek*	68.7	Per	RPW	30.0	35.7	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ28	UNT to Little Knawl Creek~	69.9	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-090.02	Fill / Culvert	-	Minor	B, C	-	-	-
S-IJ28	UNT to Little Knawl Creek	69.9	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Minor	B, C	-	-	-
S-IJ28	UNT to Little Knawl Creek	69.9	Int	RPW	5.0	-	<0.1	-	-	ATWS	MVP-ATWS-1395	TF	-	Minor	B, C	-	-	-
S-IJ31	UNT to Little Knawl Creek~	69.9	Int	RPW	5.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-090.02	Fill / Culvert	-	Minor	B, C	-	-	-
S-IJ31	UNT to Little Knawl Creek	69.9	Int	RPW	5.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Minor	B, C	-	-	-
S-IJ31-Braid	UNT to Little Knawl Creek~	69.9	Eph	NRPW	2.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-090.02	Fill / Culvert	-	Minor	-	-	-	-
S-IJ31-Braid	UNT to Little Knawl Creek	69.9	Eph	NRPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Minor	-	-	-	-
S-IJ32	UNT to Little Knawl Creek~	69.9	Eph	NRPW	1.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-090.02	Fill / Culvert	-	Minor	-	-	-	-
S-IJ32	UNT to Little Knawl Creek	69.9	Eph	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Minor	-	-	-	-
S-IJ27	Little Knawl Creek~	70.0	Per	RPW	20.0	-	0.2	-	0.2	Access Roads Work Space Permanent	MVP-BR-090.02	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-IJ27	Little Knawl Creek	70.0	Per	RPW	20.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ30	UNT to Little Knawl Creek	70.0	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-090.02	TF	-	Minor	-	-	-	-
S-QR30	UNT to Little Knawl Creek	70.0	Per	RPW	7.0	7.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-JJ1	UNT to Keith Run	71.6	Per	RPW	14.0	16.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
S-I60	UNT to Falls Run	72.2	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-J74	UNT to Falls Run	72.2	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-095.01	TF	-	Minor	B, C	-	-	-
S-J74	UNT to Falls Run	72.2	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-897	TF	-	Minor	B, C	-	-	-
S-I59	UNT to Falls Run	72.4	Int	RPW	5.0	-	0.0	-	-	ATWS	MVP-ATWS-111	TF	4	Minor	B, C	-	-	-
S-J70	Falls Run	72.4	Per	RPW	30.0	30.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	-	-	-
S-K33	UNT to Hemp Patch Run	73.5	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-116	TF	-	Minor	-	-	-	-
S-K33	UNT to Hemp Patch Run	73.5	Eph	NRPW	2.0	4.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-K34	Hemp Patch Run	73.5	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H122	UNT to Elliott Run^	73.9	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-100	TF	-	Minor	B, C	-	-	-
S-H124	UNT to Elliott Run	73.9	Per	RPW	6.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-H123	UNT to Elliott Run	74.0	Per	RPW	6.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H127	UNT to Elliott Run*	74.5	Int	RPW	4.0	4.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L50	UNT to Little Kanawha River	74.7	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-908	TF	-	Minor	B, C	WW	-	-
S-L50	UNT to Little Kanawha River	74.7	Int	RPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	WW	-	-
S-H132	Little Kanawha River	74.8	Per	RPW	120.0	-	<0.1	-	-	ATWS	MVP-ATWS-119	TF	5	Major	A, B, C	WW, TE	Snuffbox	April 1 - June 30
S-H132	Little Kanawha River	74.8	Per	RPW	120.0	121.1	0.6	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Major	A, B, C	WW, TE	Snuffbox	April 1 - June 30
S-L49	Elliott Run	74.8	Per	RPW	15.0	-	<0.1	-	-	Temporary Workspace	-	TF	5	Intermediate	B, C	-	-	-
S-H129	UNT to Little Kanawha River	75.0	Eph	NRPW	2.0	2.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H131	UNT to Little Kanawha River	75.0	Eph	NRPW	2.0	2.1	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	-	-	-	-
S-L48	Coplin Run	75.0	Per	RPW	20.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103	TF	-	Intermediate	B, C	WW	-	-
S-H130	UNT to Little Kanawha River^	75.1	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H132b	Little Kanahwa River	75.3	Per	RPW	90.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Intermediate	A, B, C	WW, TE	Snuffbox	April 1 - June 30
S-H132b-Braid	Little Kanahwa River	75.3	Eph	NRPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Minor	-	-	-	-
S-QR23	UNT to Little Kanawha River	75.3	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Minor	B, C	WW	-	-
S-QR24	UNT to Little Kanawha River^	75.3	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Minor	B, C	WW	-	-
S-QR25	UNT to Little Kanawha River	75.3	Eph	NRPW	3.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Minor	-	-	-	-
S-QR26	UNT to Little Kanawha River	75.3	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103.01	TF	-	Minor	B, C	WW	-	-
S-UV13	UNT to Granny Creek	75.3	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-ANC-001	TF	-	Minor	-	-	-	-
S-L47	Little Kanawha River	75.6	Per	RPW	75.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-BR-103	TF	-	Intermediate	A, B, C	WW, TE	Snuffbox	April 1 - June 30
S-H116	UNT to England Run^	76.2	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-104	Fill / Culvert	-	Minor	-	-	-	-
S-ST30	UNT to Granny Creek	76.2	Eph	NRPW	1.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-021	TF	-	Minor	-	-	-	-
S-H117	Stonecoal Run*	76.7	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	-	TF	3 or 4	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H117	Stonecoal Run*	76.7	Per	RPW	15.0	16.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-AA15	UNT to Laurel Run^~	77.3	Int	RPW	2.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-BR-105.03	Fill / Culvert	-	Minor	B, C	WW	-	-
S-AA15	UNT to Laurel Run^	77.3	Int	RPW	2.5	-	<0.1	-	-	Ancillary Site Temporary	HARRIS CS LOD	TF	-	Minor	B, C	WW	-	-
S-L46	UNT to Laurel Run*	77.6	Per	RPW	15.0	15.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW	-	-
S-L44	UNT to Laurel Run	78.1	Per	RPW	10.0	10.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I53	UNT to Laurel Run^	78.3	Eph	NRPW	2.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-I57	Mudlick Run	79.7	Per	RPW	30.0	30.2	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-PP09	UNT to Coon Creek	93.3	Eph	NRPW	2.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-004	TF	-	Minor	-	-	-	-
S-PP10	UNT to Coon Creek	93.3	Eph	NRPW	2.0	-	<0.1	-	-	Ancillary Site Temporary	MVP-LY-004	TF	-	Minor	-	-	-	-
Webster																		
S-A96 / A103	UNT to Left Fork Holly River*	80.7	Eph	NRPW	5.0	5.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A97	UNT to Left Fork Holly River*	80.7	Int	RPW	8.0	13.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A98	UNT to Left Fork Holly River*^	80.7	Int	RPW	7.0	12.9	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A99	UNT to Left Fork Holly River*	80.7	Eph	NRPW	5.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A101	UNT to Mudlick Run^	80.9	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-110.01	TF	-	Minor	-	-	-	-
S-A102	UNT to Mudlick Run^	81.0	Eph	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-110.01	TF	-	Minor	-	-	-	-
S-E83	UNT to Left Fork Holly River	81.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-111	TF	-	Minor	B, C	-	-	-
S-A100	Left Fork Holly River*	81.6	Per	RPW	80.0	80.5	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	CW, B2	-	September 15 - March 31
S-E78 / E82 / R1	UNT to Left Fork Holly River*	81.6	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-111	TF	-	Minor	B, C	-	-	-
S-E78 / E82 / R1	UNT to Left Fork Holly River*	81.6	Per	RPW	8.0	15.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-E83a	UNT to Left Fork Holly River*	81.6	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-111	TF	-	Minor	B, C	-	-	-
S-E76	UNT to Left Fork Holly River^	81.7	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E74	UNT to Left Fork Holly River	81.8	Per	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-KK1	UNT to Left Fork Holly River*^	81.9	Eph	NRPW	2.5	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-KK2	UNT to Left Fork Holly River*^	81.9	Eph	NRPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-KK3b	UNT to Left Fork Holly River*^	82.0	Eph	NRPW	3.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KK4b	UNT to Left Fork Holly River*^	82.0	Eph	NRPW	3.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E72	UNT to Oldlick Creek	82.2	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-114.01	TF	-	Minor	B, C	-	-	-
S-E72-Braid	UNT to Oldlick Creek	82.2	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-114.01	TF	-	Minor	B, C	-	-	-
S-S1	UNT to Oldlick Creek^	82.3	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-S2	UNT to Oldlick Creek^	82.3	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-114	TF	-	Minor	B, C	-	-	-
S-F40	Oldlick Creek	82.4	Per	RPW	25.0	29.0	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3.3	Intermediate	B, C	-	-	-
S-S3	UNT to Oldlick Creek^	82.5	Eph	NRPW	1.5	-	0.0	-	-	Access Roads Work Space Temporary	MVP-WB-114	TF	-	Minor	-	-	-	-
S-S4	UNT to Oldlick Creek^	82.5	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-114	TF	-	Minor	-	-	-	-
S-F43	UNT to Oldlick Creek	82.6	Per	RPW	10.0	13.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B67a	Right Fork Holly River*	84.0	Per	RPW	30.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	5	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B67a	Right Fork Holly River*	84.0	Per	RPW	30.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	5	Intermediate	B, C	-	-	-
S-E67	Right Fork Holly Creek*	84.1	Per	RPW	85.0	92.4	0.2	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
S-R4	UNT to Right Fork Holly Creek	84.2	Eph	NRPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-117	Fill / Culvert	-	Minor	-	-	-	-
S-R4	UNT to Right Fork Holly Creek	84.2	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-117	TF	-	Minor	-	-	-	-
S-R5	UNT to Right Fork Holly Creek	84.2	Per	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-117	Fill / Culvert	-	Minor	B, C	-	-	-
S-R5	UNT to Right Fork Holly Creek	84.2	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-117	TF	-	Minor	B, C	-	-	-
S-R5	UNT to Right Fork Holly Creek	84.2	Per	RPW	10.0	-	<0.1	-	-	ATWS	MVP-ATWS-922	TF	-	Minor	B, C	-	-	-
S-B62	Narrows Run	84.5	Per	RPW	30.0	-	0.1	-	0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-B62	Narrows Run	84.5	Per	RPW	30.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Intermediate	B, C	-	-	-
S-B66	UNT to Narrows Run	84.5	Int	RPW	15.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-B63	UNT to Narrows Run	84.6	Eph	NRPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B63	UNT to Narrows Run	84.6	Eph	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B64	UNT to Narrows Run	84.6	Eph	NRPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B64	UNT to Narrows Run	84.6	Eph	NRPW	5.0	-	0.0	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B61	UNT to Narrows Run^	84.8	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	B, C	-	-	-
S-B61	UNT to Narrows Run^	84.8	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	B, C	-	-	-
S-B57	UNT to Narrows Run^	85.4	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B57	UNT to Narrows Run^	85.4	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B58	UNT to Narrows Run^	85.4	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B59	UNT to Narrows Run^	85.4	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B60	UNT to Narrows Run^	85.4	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	B, C	-	-	-
S-B60	UNT to Narrows Run^	85.4	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B49	UNT to Narrows Run^	86.3	Eph	NRPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B49	UNT to Narrows Run^	86.3	Eph	NRPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B50	UNT to Narrows Run^	86.4	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B50	UNT to Narrows Run^	86.4	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B54	UNT to Narrows Run^	86.4	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B54	UNT to Narrows Run^	86.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B55	UNT to Narrows Run	86.4	Int	RPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	B, C	-	-	-
S-B55	UNT to Narrows Run	86.4	Int	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	B, C	-	-	-
S-B55	UNT to Narrows Run	86.4	Int	RPW	7.0	-	<0.1	-	-	ATWS	MVP-ATWS-930	TF	-	Minor	B, C	-	-	-
S-B56	UNT to Narrows Run	86.4	Int	RPW	15.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-B56	UNT to Narrows Run	86.4	Int	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B51	UNT to Narrows Run^	86.5	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B53	UNT to Narrows Run^	86.5	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B53	UNT to Narrows Run^	86.5	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-B52	UNT to Narrows Run^	86.6	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-WB-119	Fill / Culvert	-	Minor	-	-	-	-
S-B52	UNT to Narrows Run^	86.6	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-119	TF	-	Minor	-	-	-	-
S-E68	Elk River*	87.3	Per	TNW	150.0	186.6	0.3	0.2	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Major	A, B, C	B2, CW, M, TE	Clubshell	September 15 - March 31
S-E71	UNT to Elk River^	87.4	Int	RPW	2.0	2.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H111	UNT to Elk River	87.5	Int	RPW	4.0	9.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H112	UNT to Elk River^	87.5	Int	RPW	3.0	3.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H113	UNT to Elk River	87.5	Per	RPW	12.0	13.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	B, C	-	-	-
S-H114	UNT to Elk River^	87.5	Eph	NRPW	2.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-YZ2	Gulf Run	87.7	Per	RPW	18.0	-	0.2	-	-	ATWS	MVP-ATWS-1460	TF	-	Intermediate	B, C	-	-	-
S-T16a	UNT to Houston Run*^	88.4	Int	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T17	UNT to Houston Run*	88.4	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T18	UNT to Houston Run*^	88.4	Eph	NRPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	-	-	-	-
S-T19	UNT to Houston Run*	88.4	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
TTWV-S-214	Houston Run*	88.4	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-H110	UNT to Houston Run^	89.6	Eph	NRPW	3.0	18.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-T21	UNT to Houston Run^	90.1	Eph	NRPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	-	-	-	-
S-T22	UNT to Bear Run^	90.1	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	-	-	-	-
S-T24	UNT to Houston Run	90.1	Eph	NRPW	20.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Intermediate	-	-	-	-
S-T25	UNT to Houston Run	90.1	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-T27	UNT to Houston Run	90.1	Int	RPW	6.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T34	UNT to Houston Run	90.1	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T20	UNT to Houston Run	90.2	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T23	UNT to Houston Run^	90.2	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T28	UNT to Houston Run	90.4	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Intermediate	B, C	-	-	-
S-T29	Houston Run	90.6	Per	RPW	30.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Intermediate	B, C	-	-	-
S-T29	Houston Run*	90.6	Per	RPW	30.0	30.8	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
S-T33	UNT to Houston Run*^	90.6	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-T30	UNT to Houston Run	90.7	Per	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Intermediate	B, C	-	-	-
S-T32	UNT to Houston Run^	90.7	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-121	TF	-	Minor	B, C	-	-	-
S-A83 / A91	UNT to Camp Creek*	92.4	Per	NRPW	30.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	6.7	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A83 / A91	UNT to Camp Creek*	92.4	Per	NRPW	30.0	-	<0.1	-	-	ATWS	MVP-ATWS-158A	TF	6.7	Intermediate	B, C	-	-	-
S-A83 / A91	UNT to Camp Creek*	92.4	Per	RPW	25.0	25.1	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	B, C	-	-	-
S-A85	UNT to Camp Creek*	92.4	Eph	NRPW	4.0	-	0.0	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	-	Minor	-	-	-	-
S-A86 / A87	UNT to Camp Creek*	92.4	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	-	Minor	B, C	-	-	-
S-A88	UNT to Camp Creek*	92.4	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	-	Minor	B, C	-	-	-
S-A89	UNT to Camp Creek*	92.4	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	-	Minor	B, C	-	-	-
S-A90	UNT to Camp Creek*	92.4	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-124	TF	-	Minor	B, C	-	-	-
S-A92	UNT to Camp Creek*	92.4	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A93	UNT to Camp Creek*	92.4	Eph	NRPW	8.0	10.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H105	UNT to Camp Creek*	93.0	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	-	TF	-	Minor	B, C	-	-	-
S-H105	UNT to Camp Creek*	93.0	Per	RPW	3.0	6.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H108	Lower Laurel Fork*	93.0	Per	RPW	14.0	14.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	-	-	-
S-H102	UNT to Camp Creek	93.1	Per	RPW	15.0	-	<0.1	-	-	Temporary Workspace	-	TF	3 or 4	Intermediate	B, C	-	-	-
S-H104	Camp Creek	93.1	Per	RPW	15.0	15.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	-	-	-
S-H107	UNT to Camp Creek^~	93.1	Int	RPW	1.5	2.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H103	UNT to Camp Creek^	93.4	Int	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B48	UNT to Amos Run^	97.6	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-127	TF	-	Minor	-	-	-	-
S-B34	Amos Run	97.7	Per	RPW	30.0	30.8	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-B35	UNT to Amos Run*	97.7	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B36	UNT to Amos Run*	97.7	Eph	NRPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B37	UNT to Amos Run*	97.7	Int	RPW	2.0	3.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B38	UNT to Amos Run*	97.7	Eph	NRPW	2.0	5.7	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	-	-	-	-
S-B39a / B46	UNT to Amos Run*	97.7	Eph	NRPW	3.0	4.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B39a / B46	UNT to Amos Run*	97.7	Int	RPW	5.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-B39b	UNT to Amos Run*	97.7	Eph	NRPW	3.0	4.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B42	UNT to Amos Run*	97.7	Eph	NRPW	2.0	2.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B45	UNT to Amos Run*	97.7	Eph	NRPW	3.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B43	UNT to Amos Run^	97.8	Eph	NRPW	1.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-O4	Lost Run*	98.6	Per	RPW	18.0	23.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	WW	-	-
S-O5	UNT to Laurel Creek	98.7	Eph	NRPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A79	Laurel Creek*	98.8	Per	RPW	55.0	55.4	0.2	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	B, C	CW, M	-	September 15 - March 31
S-A80	UNT to Laurel Creek*^	98.8	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-129	TF	-	Minor	B, C	-	-	-
S-A81	UNT to Laurel Creek*^	98.8	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-129	TF	-	Minor	-	-	-	-
S-E58	Little Glade Run*	102.3	Per	RPW	4.0	13.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-E62	UNT to Little Glade Run*	102.3	Per	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-12	Fill / Culvert	-	Minor	B, C	-	-	-
S-E55	UNT to Laurel Creek*^	102.9	Eph	NRPW	2.0	2.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F22	UNT to Williams Branch	103.4	Per	RPW	6.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F23	UNT to Williams Branch^	103.4	Int	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F32	UNT to Williams Branch	103.4	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F25 / F26	UNT to Williams Branch^	103.5	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F25 / F26	UNT to Williams Branch^	103.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	-	-	-	-
S-F27 / F29	UNT to Williams Branch	103.5	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F27 / F29	UNT to Williams Branch	103.5	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F28	UNT to Williams Branch	103.5	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F30	UNT to Williams Branch	103.5	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-F31	UNT to Williams Branch	103.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	B, C	-	-	-
S-F33	UNT to Williams Branch	103.5	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-131	TF	-	Minor	-	-	-	-
S-F34	UNT to Birch River*	104.3	Per	RPW	5.0	5.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-F35	UNT to Birch River*	104.3	Per	RPW	5.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-F36a	UNT to Birch River	104.7	Per	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-132.01	TF	-	Minor	B, C	-	-	-
S-F36a	UNT to Birch River	104.7	Per	RPW	5.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-WB-132	TF	-	Minor	B, C	-	-	-
S-F38	UNT to Birch River	104.7	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-132.01	TF	-	Minor	B, C	-	-	-
S-F36b	UNT to Birch River	104.9	Per	RPW	20.0	20.2	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	B, C	-	-	-
S-F37	UNT to Birch River	104.9	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-132.01	TF	-	Minor	B, C	-	-	-
S-C49	UNT to Birch River^	105.0	Eph	NRPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-B33	UNT to Meadow Fork^	106.1	Int	RPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B32	UNT to Meadow Fork	106.3	Per	RPW	7.0	9.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B32-Braid	UNT to Meadow Fork	106.3	Per	RPW	7.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-B29	Meadow Fork	107.0	Per	RPW	7.0	7.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B30	UNT to Meadow Fork^	107.0	Eph	NRPW	4.0	-	0.0	-	-	Anode Bed Permanent Workspace	MVP-CPGB-12	Fill / Culvert	-	Minor	-	-	-	-
S-EF40	UNT to Meadow Fork	107.0	Int	RPW	3.0	-	0.0	-	-	Anode Bed Permanent Workspace	MVP-CPGB-12	Fill / Culvert	-	Minor	B, C	-	-	-
S-EF40	UNT to Meadow Fork	107.0	Int	RPW	3.0	-	<0.1	-	-	Anode Bed Temporary Work Space	-	TF	-	Minor	B, C	-	-	-
S-E50	UNT to Gauley River*	109.5	Per	RPW	4.0	5.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-E52	UNT to Gauley River*^	109.5	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-E54	UNT to Gauley River*	109.7	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-WB-134	TF	-	Minor	B, C	-	-	-
S-E46	Strouds Creek*	110.1	Per	RPW	30.0	31.4	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	-	-	-
Nicholas																		
S-E49	UNT to Gauley River*^	109.8	Eph	NRPW	1.0	1.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F20	Barn Run	111.3	Per	RPW	10.0	10.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-F21	Barn Run	111.3	Per	RPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ57	UNT to Barn Run*	111.6	Per	RPW	3.5	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-QQ5	UNT to Barn Run	111.8	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-139	Fill / Culvert	-	Minor	B, C	-	-	-
S-QQ5	UNT to Barn Run	111.8	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-139	TF	-	Minor	B, C	-	-	-
S-IJ59	UNT to Barn Run^	112.1	Eph	NRPW	2.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-IJ60	UNT to Rockcamp Run*	112.6	Per	RPW	5.5	5.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-IJ62	UNT to Cherry Run*	112.7	Int	RPW	2.5	2.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B28	Cherry Run	113.3	Per	RPW	10.0	10.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-B26	UNT to Cherry Run	113.6	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-141.01	TF	-	Minor	B, C	-	-	-
S-J32	Big Beaver Creek*+	114.4	Per	RPW	35.0	35.8	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	A,B,C	-	-	-
S-A76	UNT to Big Beaver Creek*	114.6	Per	RPW	10.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A74	UNT to Big Beaver Creek*	114.8	Eph	NRPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A75	UNT to Big Beaver Creek*	114.8	Per	RPW	10.0	10.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A73	UNT to Big Beaver Creek*	115.0	Int	RPW	6.0	6.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A71	UNT to Big Beaver Creek*	115.1	Per	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A71-Braid	UNT to Big Beaver Creek*	115.1	Int	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A72	UNT to Big Beaver Creek*^	115.1	Eph	NRPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A67	UNT to Big Beaver Creek*	115.4	Per	RPW	7.0	7.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-A69	UNT to Big Beaver Creek*	115.5	Int	RPW	6.0	7.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H100	UNT to Big Beaver Creek*	115.8	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H99	UNT to Big Beaver Creek*	115.8	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H96	UNT to Big Beaver Creek	116.0	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-146	TF	-	Minor	B, C	-	-	-
S-H95	UNT to Big Beaver Creek	116.1	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-146	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A65	Big Beaver Creek*+	116.2	Per	RPW	70.0	72.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	A,B,C	-	-	-
S-A64	UNT to Granny Run*^	116.5	Eph	NRPW	7.0	7.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-N15	UNT to Granny Run*^	116.7	Int	RPW	12.0	12.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
S-N14	Granny Run	117.0	Per	RPW	8.0	9.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-ST27	UNT to Granny Run*	117.2	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-147	TF	-	Minor	B, C	-	-	-
S-ST28	Granny Run*	117.2	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-147	TF	-	Minor	B, C	-	-	-
S-I43	UNT to Big Run*	117.3	Int	RPW	10.0	10.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I44	Big Run	117.5	Per	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	A,B,C	WW	-	-
S-I45	UNT to Big Run	117.6	Per	RPW	6.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I47	UNT to Gauley River*	118.1	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I48	UNT to Gauley River	118.4	Per	RPW	10.0	10.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-J29	Gauley River*	118.9	Per	TNW	300.0	313.0	0.5	0.4	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Major	A,B,C	WW, M	-	April 1 - June 30
S-EF29	UNT to Little Laurel Creek	119.2	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Minor	-	-	-	-
S-EF29	UNT to Little Laurel Creek^	119.2	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	-	-	-	-
S-EF28	UNT to Gauley River	119.5	Int	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-J26	Little Laurel Creek~	119.5	Per	RPW	30.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Intermediate	B, C	WW	-	-
S-J26	Little Laurel Creek	119.5	Per	RPW	30.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Intermediate	B, C	WW	-	-
S-MN7	UNT to Little Laurel Creek^	119.5	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-MN7	UNT to Little Laurel Creek^	119.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	B, C	-	-	-
S-EF27	UNT to Gauley River*	119.7	Int	RPW	2.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-EF27	UNT to Gauley River*	119.7	Int	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	B, C	-	-	-
S-J27	UNT to Panther Creek	119.7	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-151.01	Fill / Culvert	-	Minor	B, C	WW	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-J27	UNT to Panther Creek	119.7	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	B, C	WW	-	-
S-J28	UNT to Little Laurel Creek	119.7	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-MN8	UNT to Little Laurel Creek	119.7	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	B, C	-	-	-
S-MN9	Little Laurel Creek	119.7	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Intermediate	B, C	WW	-	-
S-MN10	UNT to Little Laurel Creek^	119.8	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	-	-	-	-
S-J25	UNT to Little Laurel Creek	120.2	Eph	NRPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-QQ8	UNT to Little Laurel Creek	120.2	Int	RPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-1358	TF	-	Minor	B, C	-	-	-
S-QQ9	UNT to Little Laurel Creek^	120.2	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-153.01	TF	-	Minor	-	-	-	-
S-QQ9	UNT to Little Laurel Creek^	120.2	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1358	TF	-	Minor	-	-	-	-
S-J24	UNT to Little Laurel Creek*	120.3	Per	RPW	15.0	-	<0.1	-	-	ATWS	MVP-ATWS-1359	TF	Alternative Mitigation	Intermediate	B, C	-	-	-
S-J24	UNT to Little Laurel Creek*	120.3	Per	RPW	15.0	15.2	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-R10	UNT to Little Laurel Creek	120.7	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-R14	UNT to Little Laurel Creek	120.8	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-R15	UNT to Little Laurel Creek	120.8	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-R16	UNT to Little Laurel Creek	120.8	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	-	-	-	-
S-X1	Little Laurel Creek+	120.9	Per	RPW	12.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Intermediate	B, C	WW	-	-
S-X1	Little Laurel Creek+	120.9	Per	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Intermediate	B, C	WW	-	-
S-X2	UNT to Little Laurel Creek	121.2	Int	RPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-X3	UNT to Little Laurel Creek	121.2	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-X3	UNT to Little Laurel Creek	121.2	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	-	-	-
S-U11	UNT to Little Laurel Creek	121.4	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-U11	UNT to Little Laurel Creek	121.4	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-U9	Little Laurel Creek	121.4	Per	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	WW	-	-
S-U9	Little Laurel Creek	121.4	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	WW	-	-
S-X7	UNT to Little Laurel Creek^	121.4	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	-	-	-	-
S-X7	UNT to Little Laurel Creek^	121.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	-	-	-	-
S-X8	UNT to Little Laurel Creek	121.4	Eph	NRPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	-	-	-	-
S-X8	UNT to Little Laurel Creek	121.4	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	-	-	-	-
S-U6	UNT to Little Laurel Creek	121.9	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	-	-	-	-
S-U6	UNT to Little Laurel Creek	121.9	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	-	-	-	-
S-U2	UNT to Little Laurel Creek	122.0	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-U2	UNT to Little Laurel Creek	122.0	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	-	-	-
S-U4	UNT to Little Laurel Creek	122.0	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-U4	UNT to Little Laurel Creek	122.0	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	-	-	-
S-U5	UNT to Little Laurel Creek^	122.0	Int	RPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MLV-AR-14	Fill / Culvert	-	Minor	B, C	-	-	-
S-U5	UNT to Little Laurel Creek^	122.0	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	B, C	-	-	-
S-WX4	UNT to Morris Fork	122.0	Per	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MLV-AR-14	TF	-	Minor	-	-	-	-
S-J23-EPH	UNT to Little Laurel Creek^	122.2	Eph	NRPW	1.0	1.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-J22	UNT to Little Laurel Creek	122.3	Int	RPW	3.0	3.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-N10	Skelt Run	122.5	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-N10-Braid	Skelt Run	122.5	Int	RPW	3.0	5.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-EE1	UNT to Skelt Run*	122.7	Eph	NRPW	4.0	4.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-N13	UNT to Skelt Run^	122.9	Int	RPW	2.0	2.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-N13-Braid	UNT to Skelt Run^	122.9	Int	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-W12	UNT to Deer Creek^	122.9	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	B2	-	-
S-W14	UNT to Deer Creek^	122.9	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W16	UNT to Deer Creek^	122.9	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	B2	-	-
S-W17 / W18	UNT to Deer Creek	122.9	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	B2	-	-
S-W17 / W18	UNT to Deer Creek	122.9	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	B2	-	-
S-W1	UNT to Jims Creek^	123.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W10	UNT to Deer Creek^	123.0	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W11	UNT to Deer Creek	123.0	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W2	UNT to Jims Creek^	123.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W3	UNT to Jims Creek^	123.0	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W4	UNT to Jims Creek^	123.0	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-W5	UNT to Deer Creek^	123.0	Eph	NRPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W7	UNT to Deer Creek	123.0	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	B2	-	-
S-W8	UNT to Deer Creek	123.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-W9	UNT to Deer Creek	123.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-V1	UNT to Jims Creek	123.1	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	B, C	-	-	-
S-L42	UNT to Jims Creek	123.3	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-156	TF	-	Minor	-	-	-	-
S-L41	Jims Creek	123.4	Per	RPW	20.0	20.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	B, C	-	-	-
S-L38	UNT to Riley Branch	124.5	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L37	UNT to Riley Branch	124.7	Int	RPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-L35	Riley Branch	124.8	Per	RPW	4.0	4.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-I37	UNT to Hominy Creek*	125.3	Eph	NRPW	6.0	2.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-I38	UNT to Hominy Creek	125.5	Int	RPW	5.0	5.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-I39	UNT to Hominy Creek	125.5	Int	RPW	7.0	7.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-N19	UNT to Hominy Creek	125.6	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-160.01	TF	-	Minor	B, C	B2	-	-
S-I40	UNT to Hominy Creek	126.0	Int	RPW	7.0	7.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-M20	UNT to Brushy Meadow Creek	126.2	Per	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	B, C	-	-	-
S-M20	UNT to Brushy Meadow Creek	126.2	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	B, C	-	-	-
S-M21	UNT to Brushy Meadow Creek^	126.2	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	-	-	-	-
S-M21	UNT to Brushy Meadow Creek^	126.2	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-160.01	TF	-	Minor	-	-	-	-
S-M22	UNT to Bowen Run^	126.2	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	B, C	-	-	-
S-M22	UNT to Bowen Run^	126.2	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	B, C	-	-	-
S-M23	UNT to Bowen Run^	126.2	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-160.01	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-M23	UNT to Bowen Run^	126.2	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-160.01	TF	-	Minor	-	-	-	-
S-M24	Bowen Run	126.2	Per	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	B, C	-	-	-
S-M24	Bowen Run	126.2	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	B, C	-	-	-
S-M27	UNT to Hominy Creek^	126.2	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	-	-	-	-
S-M27	UNT to Hominy Creek^	126.2	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	-	-	-	-
S-M28	UNT to Hominy Creek	126.2	Per	RPW	15.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Intermediate	B, C	B2	-	-
S-M28	UNT to Hominy Creek	126.2	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Intermediate	B, C	B2	-	-
S-O6	UNT to Hominy Creek	126.3	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-160	TF	-	Minor	B, C	B2	-	-
S-EF42	UNT to Hominy Creek	126.5	Int	RPW	12.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-160.01	Fill / Culvert	-	Intermediate	B, C	B2	-	-
S-EF42	UNT to Hominy Creek	126.5	Int	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-160.01	TF	-	Intermediate	B, C	B2	-	-
S-M29	UNT to Hominy Creek^	126.5	Eph	NRPW	1.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-M29	UNT to Hominy Creek^	126.5	Eph	NRPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	-	-	-	-
S-I41	UNT to Hominy Creek^	126.8	Int	RPW	8.0	8.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-I36	Hominy Creek*+	126.9	Per	RPW	55.0	56.7	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	CW, B2, M	-	September 15 - March 31
S-U12	UNT to Hominy Creek	127.1	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	-	-	-	-
S-U13	UNT to Hominy Creek	127.3	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	B2	-	-
S-U14	UNT to Hominy Creek	127.3	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	-	-	-	-
S-U16	UNT to Hominy Creek	127.3	Per	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	B2	-	-
S-U16	UNT to Hominy Creek	127.3	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	B, C	B2	-	-
S-M25	UNT to Bowen Run^	127.5	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-159	Fill / Culvert	-	Minor	B, C	-	-	-
S-M25	UNT to Bowen Run^	127.5	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-159	TF	-	Minor	B, C	-	-	-
S-M26	UNT to Brushy Meadow Creek^	127.5	Int	RPW	2.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-M26	UNT to Brushy Meadow Creek^	127.5	Int	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	B, C	-	-	-
S-U17	UNT to Hominy Creek	127.5	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	B2	-	-
S-U18	UNT to Hominy Creek^	127.5	Int	NRPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	B2	-	-
S-U18	UNT to Hominy Creek^	127.5	Int	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	B, C	B2	-	-
S-U19	Hominy Creek	127.5	Per	RPW	65.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Intermediate	B, C	CW, B2, M	-	September 15 - March 31
S-X10	UNT to Hominy Creek	127.5	Eph	NRPW	3.0	-	0.0	-	0.0	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	-	-	-	-
S-X10	UNT to Hominy Creek	127.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	-	-	-	-
S-X11 / X12	UNT to Hominy Creek	127.5	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	-	-	-	-
S-X14	UNT to Hominy Creek^	127.5	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-NI-161	Fill / Culvert	-	Minor	B, C	B2	-	-
S-X14	UNT to Hominy Creek^	127.5	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	B, C	B2	-	-
S-X9	UNT to Hominy Creek^	127.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-161	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-I31	UNT to Hominy Creek*^	128.1	Eph	NRPW	2.0	2.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-N8a	UNT to Hominy Creek	128.3	Per	RPW	10.0	11.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-N8	UNT to Hominy Creek	128.4	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-163	TF	-	Minor	B, C	B2	-	-
S-VV1	UNT to Hominy Creek	128.4	Int	RPW	4.0	4.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-H88	Sugar Branch	130.4	Per	RPW	40.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	4	Intermediate	A,B,C	-	-	-
S-H88	Sugar Branch	130.4	Per	RPW	40.0	40.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	A,B,C	-	-	-
S-H90	UNT to Sugar Branch	130.4	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	-	Minor	B, C	-	-	-
S-H91	UNT to Sugar Branch	130.4	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	-	Minor	B, C	-	-	-
S-H92	UNT to Sugar Branch	130.4	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	-	Minor	B, C	-	-	-
S-H93	UNT to Sugar Branch	130.4	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	-	Minor	B, C	-	-	-
S-H94	UNT to Sugar Branch	130.4	Per	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-166	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H75	UNT to Hominy Creek	131.0	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-167	TF	-	Minor	B, C	B2	-	-
S-H76	UNT to Hominy Creek	131.2	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-167	TF	-	Minor	B, C	B2	-	-
S-H78	UNT to Hominy Creek	131.2	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-167	TF	-	Minor	B, C	B2	-	-
S-H79	UNT to Hominy Creek^	131.2	Eph	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-NI-167	TF	-	Minor	-	-	-	-
S-H80	UNT to Hominy Creek^	131.2	Int	RPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-H71	UNT to Hominy Creek*	131.5	Per	RPW	12.0	15.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	B, C	B2	-	-
S-H66	UNT to Hominy Creek*^	131.8	Int	RPW	10.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	B2	-	-
S-H67	UNT to Hominy Creek*	131.8	Per	RPW	12.0	13.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	B2	-	-
S-H64	UNT to Hominy Creek*^	132.1	Int	RPW	3.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-V3	UNT to Hominy Creek*	132.4	Per	RPW	50.0	57.4	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	B2	-	-
S-EF41	UNT to Hominy Creek*^	133.0	Int	RPW	1.5	-	<0.1	-	-	ATWS	MVP-ATWS-255C	TF	-	Minor	B, C	B2	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-EF41	UNT to Hominy Creek*^	133.0	Int	RPW	1.5	1.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
Greenbrier																		
S-QR7	UNT to Meadow Creek	137.4	Int	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-174.03	TF	-	Minor	B, C	B2	-	-
S-QR9	UNT to Meadow Creek^	137.4	Int	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-174.03	TF	-	Minor	B, C	B2	-	-
S-QR6	UNT to Meadow Creek^	137.7	Eph	NRPW	3.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-174.03	TF	-	Minor	-	-	-	-
S-PP11	UNT to Meadow Creek	138.4	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-178	Fill / Culvert	-	Minor	-	-	-	-
S-PP11	UNT to Meadow Creek	138.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-178.01	TF	-	Minor	-	-	-	-
S-J30	UNT to Meadow Creek	139.1	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-178	TF	-	Minor	B, C	B2	-	-
S-J31	UNT to Meadow Creek^	139.1	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-178	TF	-	Minor	-	-	-	-
S-KL45	UNT to Meadow Creek	139.6	Int	RPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-KL46	UNT to Meadow Creek	139.7	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-KL47	UNT to Meadow Creek	139.7	Per	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ69	Meadow Creek*	140.0	Per	RPW	16.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Intermediate	B, C	B2	-	September 15 - March 31
S-J19	UNT to Meadow Creek*^	140.0	Eph	NRPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ71	UNT to Meadow Creek	140.1	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-J20	UNT to Meadow Creek*	140.4	Per	RPW	30.0	34.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	B2	-	-
S-IJ66	UNT to Meadow Creek	140.5	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-IJ67	UNT to Meadow Creek^	140.5	Int	RPW	3.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-IJ68	UNT to Meadow Creek	140.5	Per	RPW	4.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-IJ69	Meadow Creek	140.5	Per	RPW	16.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Intermediate	B, C	B2	-	September 15 - March 31
S-IJ70	UNT to Meadow Creek	140.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-179.01	TF	-	Minor	B, C	B2	-	-
S-I25	UNT to Meadow Creek*	140.9	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-I26	UNT to Meadow Creek*	141.1	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-I27	UNT to Meadow Creek*^	141.2	Int	RPW	5.0	5.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	B2	-	-
S-M9	UNT to Meadow River	143.2	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-182	TF	-	Minor	B, C	WW	-	-
S-M10	UNT to Meadow River	143.6	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-182	TF	-	Minor	B, C	WW	-	-
S-M8	UNT to Meadow River	143.6	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-182	TF	-	Minor	B, C	WW	-	-
S-M7	UNT to Meadow River	143.7	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-182	TF	-	Minor	-	-	-	-
S-I28	Meadow River+	144.0	Per	TNW	50.0	50.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	B, C	WW, M	-	April 1 - June 30
S-I29	UNT to Meadow River^	144.0	Int	RPW	15.0	-	<0.1	-	-	ATWS	MVP-ATWS-1426	TF	-	Intermediate	B, C	WW	-	-
S-L26	UNT to Meadow River	144.1	Per	RPW	3.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-L23	UNT to Little Sewell Creek^	145.7	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-184	TF	-	Minor	B, C	-	-	-
S-EF38	UNT to Little Sewell Creek	146.1	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L24	UNT to Little Sewell Creek^	146.1	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-L27	UNT to Little Sewell Creek	146.2	Per	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L22	Little Sewell Creek*+	147.0	Per	RPW	30.0	30.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
S-L30	UNT to Little Sewell Creek*	147.0	Int	RPW	3.0	7.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L31	UNT to Little Sewell Creek*	147.0	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-185	Fill / Culvert	-	Minor	B, C	-	-	-
S-L31	UNT to Little Sewell Creek*	147.0	Per	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-185	TF	-	Minor	B, C	-	-	-
S-L20	UNT to Little Sewell Creek*	147.3	Per	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L10	UNT to Boggs Creek*	148.3	Per	RPW	3.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L11	UNT to Boggs Creek*	148.3	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L18	UNT to Little Sewell Creek	148.4	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-187.03	TF	-	Minor	B, C	-	-	-
S-L19	UNT to Little Sewell Creek	148.5	Int	RPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-187.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-L19	UNT to Little Sewell Creek	148.5	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-187.03	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-L13	UNT to Little Sewell Creek^~	148.7	Int	RPW	1.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-187.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-L13	UNT to Little Sewell Creek^	148.7	Int	RPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-187.03	TF	-	Minor	B, C	-	-	-
S-QR1	UNT to Little Sewell Creek^	149.0	Eph	NRPW	2.0	-	<0.1	-	0.0	Access Roads Work Space Permanent	MVP-GB-187.01	Fill / Culvert	-	Minor	-	-	-	-
S-QR1	UNT to Little Sewell Creek^	149.0	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-187.03	TF	-	Minor	-	-	-	-
S-EF39	UNT to Boggs Creek^	149.5	Eph	NRPW	3.5	-	0.0	-	-	Anode Bed Permanent Workspace	MVP-CPGB-16	Fill / Culvert	-	Minor	-	-	-	-
S-I21	UNT to Boggs Creek	149.9	Per	RPW	5.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-I21	UNT to Boggs Creek	149.9	Per	RPW	5.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-I22	UNT to Boggs Creek	149.9	Int	RPW	2.0	2.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-I23a	UNT to Boggs Creek~	149.9	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-189	Fill / Culvert	-	Minor	B, C	-	-	-
S-IJ53	UNT to Boggs Creek	149.9	Per	RPW	9.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-189	Fill / Culvert	-	Minor	B, C	-	-	-
S-IJ53	UNT to Boggs Creek	149.9	Per	RPW	9.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-189	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ54	UNT to Boggs Creek^	149.9	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-189	Fill / Culvert	-	Minor	-	-	-	-
S-IJ54	UNT to Boggs Creek~	149.9	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-189	TF	-	Minor	-	-	-	-
S-W22	UNT to Meadow River^~	150.5	Eph	NRPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-190	TF	-	Minor	-	-	-	-
S-W23	UNT to Meadow River^	150.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-190	TF	-	Minor	B, C	WW	-	-
S-K17	Buffalo Creek*	154.9	Per	RPW	20.0	20.0	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-K19	UNT to Buffalo Creek	155.0	Int	RPW	3.0	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K21	UNT to Buffalo Creek	155.2	Per	RPW	10.0	11.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-K22	UNT to Buffalo Creek	155.2	Per	RPW	7.0	7.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-UV6	UNT to Morris Fork*	155.5	Per	RPW	6.0	7.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-UV2	UNT to Morris Fork^	155.8	Per	RPW	14.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-193	Fill / Culvert	-	Intermediate	B, C	-	-	-
S-UV2	UNT to Morris Fork^	155.8	Per	RPW	14.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-193	TF	-	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-UV2	UNT to Morris Fork^	155.8	Per	RPW	14.0	14.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	-	-	-
S-UV3	UNT to Morris Fork	155.8	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-193.01	TF	-	Minor	B, C	-	-	-
S-U22	UNT to Meadow River*	156.8	Int	RPW	12.0	13.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	WW	-	-
S-FF1	UNT to Meadow River^	157.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GB-196	TF	-	Minor	-	-	-	-
Fayette																		
S-K30	UNT to Buffalo Creek^	154.2	Int	RPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-A104	UNT to Buffalo Creek^~	154.4	Eph	NRPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-190.01	Fill / Culvert	-	Minor	-	-	-	-
S-A104	UNT to Buffalo Creek^	154.4	Eph	NRPW	8.0	-	<0.1	-	-	Ancillary Site Temporary	STALLW ORTH CS LOD	TF	-	Minor	-	-	-	-
S-F45b	UNT to Buffalo Creek^	154.4	Eph	NRPW	4.0	-	<0.1	-	-	Ancillary Site Temporary	STALLW ORTH CS LOD	TF	-	Minor	-	-	-	-
S-K26	UNT to Buffalo Creek*^	154.6	Int	RPW	3.0	3.4	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	B, C	-	-	-
S-K27	UNT to Buffalo Creek*^	154.6	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-QR4	UNT to Buffalo Creek*^~	154.6	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GB-190.01	Fill / Culvert	-	Minor	B, C	-	-	-
S-QR4	UNT to Buffalo Creek*^	154.6	Int	RPW	3.0	-	<0.1	-	-	Ancillary Site Temporary	STALLW ORTH CS LOD	TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
Summers																		
S-EE4	UNT to Red Spring Branch*	158.9	Int	RPW	2.5	3.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-M6	UNT to Red Spring Branch*	159.4	Int	NRPW	4.0	4.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-J13	UNT to Patterson Creek*^	160.5	Eph	NRPW	4.0	4.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-M5	Red Spring Branch*	160.9	Eph	NRPW	6.0	7.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-J12	UNT to Lick Creek	161.3	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-198	TF	-	Minor	-	-	-	-
S-M4	UNT to Red Spring Branch	161.3	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-198	TF	-	Minor	-	-	-	-
S-I13	UNT to Lick Creek*	161.8	Int	RPW	15.0	17.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	B, C	WW	-	-
S-I14	UNT to Lick Creek*	161.9	Int	RPW	7.0	9.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I12	Lick Creek*+~	162.0	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-SU-199	Fill / Culvert	-	Minor	B, C	WW	-	-
S-I15	UNT to Lick Creek*	162.0	Int	RPW	10.0	10.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-I16	UNT to Lick Creek*	162.1	Int	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-I10	UNT to Lick Creek*~	162.3	Int	RPW	1.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-SU-199	Fill / Culvert	-	Minor	B, C	WW	-	-
S-I17	UNT to Lick Creek*	162.6	Eph	NRPW	2.5	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-I18	UNT to Lick Creek*	162.9	Per	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Intermediate	B, C	WW	-	-
S-I19	Lick Creek*+	162.9	Per	RPW	15.0	15.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	B, C	WW	-	-
TTWV-S-47	UNT to Lick Creek*	162.9	Per	RPW	12.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Intermediate	B, C	WW	-	-
S-I20	UNT to Lick Creek	163.0	Per	RPW	10.0	13.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
TTWV-S-204	UNT to Lick Creek	163.1	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Minor	B, C	-	-	-
TTWV-S-205	UNT to Lick Creek	163.1	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Minor	B, C	-	-	-
TTWV-S-206	UNT to Lick Creek	163.1	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Minor	-	-	-	-
TTWV-S-51	Lick Creek	163.1	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Intermediate	B, C	WW	-	-
TTWV-S-51	Lick Creek	163.1	Per	RPW	20.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Intermediate	B, C	WW	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTWV-S-51	Lick Creek	163.1	Per	RPW	25.0	-	0.3	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Intermediate	B, C	WW	-	-
TTWV-S-52	UNT to Lick Creek	163.1	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-200	TF	-	Minor	B, C	-	-	-
S-QQ10	UNT to Hungard Creek^	165.1	Eph	NRPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1176	TF	-	Minor	-	-	-	-
S-J10	UNT to Hungard Creek	165.5	Eph	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	-	-	-	-
S-J8	UNT to Hungard Creek	165.5	Eph	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	-	-	-	-
S-J9	UNT to Hungard Creek	165.5	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	-	-	-	-
S-L6	UNT to Hungard Creek^	165.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	B, C	-	-	-
S-L7	UNT to Hungard Creek	165.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	B, C	-	-	-
S-L8	UNT to Hungard Creek	165.5	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	B, C	-	-	-
S-J7	UNT to Hungard Creek	165.6	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-201	TF	-	Minor	B, C	-	-	-
TTWV-S-54	UNT to Stonelick Branch~	166.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTWV-S-56	UNT to Stonelick Branch~	166.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Minor	-	-	-	-
TTWV-S-57	UNT to Stonelick Branch~	166.0	Eph	NRPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Minor	-	-	-	-
TTWV-S-202	Stonelick Branch~	166.1	Int	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Intermediate	B, C	WW	-	-
TTWV-S-59	UNT to Stonelick Branch~	166.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Minor	-	-	-	-
TTWV-S-60	UNT to Stonelick Branch^~	166.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-202	TF	-	Minor	-	-	-	-
S-N5	UNT to Hungard Creek*	168.9	Per	RPW	2.0	2.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	WW	-	-
S-K14	UNT to Righthand Fork Hungard Creek	169.5	Eph	NRPW	4.0	5.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-N3	UNT to Hungard Creek^	169.7	Eph	NRPW	5.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CD23	UNT to Hungard Creek*^	169.8	Eph	NRPW	2.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-N2	Hungard Creek*+	169.8	Per	RPW	20.0	21.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	A,B,C	-	-	-
S-N4	UNT to Hungard Creek*	169.8	Eph	RPW	3.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-M3	Hungard Creek	169.9	Per	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-KL29	Right Fork Hungard Creek*	170.0	Per	RPW	44.0	44.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-ST34	UNT to Greenbrier River	171.1	Eph	NRPW	3.0	-	<0.1	-	-	ATWS	MVP-ATWS-557	TF	-	Minor	-	-	-	-
S-EF53	UNT to Greenbrier River^	171.3	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-205	TF	-	Minor	B, C	-	-	-
S-EF53	UNT to Greenbrier River^	171.3	Int	RPW	5.0	-	<0.1	-	-	ATWS	MVP-ATWS-558	TF	-	Minor	B, C	-	-	-
S-I8	Greenbrier River*+	171.6	Per	TNW	270.0	403.6	0.7	0.5	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.6	Major	A, B, C	WW, M	-	April 1 - June 30
S-I9	UNT to Greenbrier River^	171.7	Int	RPW	7.0	17.3	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	B, C	-	-	-
S-K10	UNT to Greenbrier River^~	171.7	Int	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-SU-207	Fill / Culvert	-	Minor	B, C	-	-	-
S-K10	UNT to Greenbrier River^	171.7	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-207	TF	-	Minor	B, C	-	-	-
S-L4	UNT to Greenbrier River*	172.0	Per	RPW	10.0	10.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-L2	UNT to Greenbrier River*	172.1	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-K3	UNT to Kelly Creek*^	172.5	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-208.01	TF	-	Minor	B, C	-	-	-
S-K4	UNT to Kelly Creek*	172.5	Int	RPW	2.0	-	0.0	-	-	Access Roads Work Space Temporary	MVP-SU-208.01	TF	-	Minor	B, C	-	-	-
S-K5	UNT to Kelly Creek*^	172.5	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-SU-208.01	TF	-	Minor	-	-	-	-
S-L1	UNT to Kelly Creek*	172.5	Per	RPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-J5	Kelly Creek*+	172.7	Per	RPW	20.0	20.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	-	-	-
S-J4	UNT to Keller Creek*	173.1	Int	RPW	5.0	5.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-G47	UNT to Wind Creek*^	174.2	Eph	NRPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
Monroe																		
S-G48	Wind Creek*	176.7	Per	RPW	20.0	20.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3.3	Intermediate	A,B,C, D	-	-	-
S-G49	UNT to Wind Creek*	176.7	Per	RPW	20.0	23.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3.3	Intermediate	B, C	-	-	-
S-G52	UNT to Wind Creek*	176.7	Eph	NRPW	2.0	2.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Q18	UNT to Blue Lick^	176.9	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-213	Fill / Culvert	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-Q19	UNT to Blue Lick~	176.9	Per	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-213	Fill / Culvert	-	Minor	B, C	-	-	-
S-PP13	UNT to Wind Creek	177.1	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-212	TF	-	Minor	-	-	-	-
S-PP13	UNT to Wind Creek	177.1	Eph	NRPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1082	TF	-	Minor	-	-	-	-
S-H61	UNT to Stoney Creek*	177.4	Per	RPW	25.0	25.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3.3	Intermediate	B, C	-	-	-
S-H61a	UNT to Stoney Creek*	177.4	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-214	TF	3.3	Intermediate	B, C	-	-	-
S-H62	UNT to Stoney Creek	178.0	Int	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-215	TF	-	Minor	B, C	-	-	-
S-H63	UNT to Stoney Creek	178.1	Int	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-215	TF	-	Minor	B, C	-	-	-
S-OP1	Stony Creek	179.1	Per	RPW	3.0	3.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-IJ64	UNT to Little Stony Creek*	179.8	Per	NRPW	2.5	2.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-IJ65	UNT to Little Stony Creek*^	179.8	Eph	NRPW	1.5	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-A63	Slate Run	182.3	Per	RPW	10.0	10.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A61	UNT to Slate Run*~	182.4	Eph	NRPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	-	Fill / Culvert	-	Minor	-	-	-	-
S-A61	UNT to Slate Run*	182.4	Eph	NRPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	-	TF	-	Minor	-	-	-	-
S-A61	UNT to Slate Run*	182.4	Eph	NRPW	7.0	7.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A60	Slate Run	182.5	Per	RPW	18.0	19.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
TTWV-S-203	UNT to Slate Run~	182.6	Int	RPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-218	Fill / Culvert	-	Minor	B, C	-	-	-
TTWV-S-203	UNT to Slate Run	182.6	Int	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-218	TF	-	Minor	B, C	-	-	-
S-D31	Indian Creek*	182.8	Per	RPW	65.0	-	<0.1	-	-	ATWS	MVP-ATWS-332	TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-D31	Indian Creek*	182.8	Per	RPW	65.0	100.1	0.2	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	B, C	WW, M	-	April 1 - June 30
S-D29	UNT to Hans Creek^	183.3	Int	RPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
TTWV-S-102	UNT to Hans Creek~	184.0	Int	RPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-220	Fill / Culvert	-	Minor	B, C	-	-	-
S-D25	UNT to Hans Creek	184.1	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTWV-S-101	UNT to Hans Creek~	184.1	Eph	NRPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-220	Fill / Culvert	-	Minor	-	-	-	-
S-F18	UNT to Hans Creek*	184.2	Per	RPW	18.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-220	Fill / Culvert	-	Minor	B, C	-	-	-
S-F18	UNT to Hans Creek*	184.2	Per	RPW	18.0	30.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	B, C	-	-	-
S-Z4	UNT to Hans Creek*	185.3	Eph	NRPW	2.5	2.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Z5	UNT to Hans Creek*	185.3	Eph	NRPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-AB28	UNT to Hans Creek	185.7	Eph	NRPW	1.5	-	<0.1	-	-	ATWS	MVP-ATWS-1107	TF	-	Minor	-	-	-	-
S-MN2	UNT to Hans Creek	185.7	Per	RPW	7.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
TTWV-S-201	UNT to Hans Creek^	185.7	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1107	TF	-	Minor	B, C	-	-	-
TTWV-S-201	UNT to Hans Creek^	185.7	Int	RPW	4.0	2.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-MN2	UNT to Hans Creek	185.7	Per	RPW	6.0	3.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-H60	UNT to Hans Creek	187.2	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-225	TF	-	Minor	B, C	-	-	-
TTWV-S-108	Hans Creek*+	187.7	Per	RPW	16.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-226	TF	7	Intermediate	B, C	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTWV-S-108	Hans Creek*+	187.7	Per	RPW	16.0	17.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	B, C	-	-	-
TTWV-S-109	UNT to Hans Creek	187.7	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-226	TF	-	Minor	B, C	-	-	-
TTWV-S-145	UNT to Hans Creek^	187.9	Eph	NRPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
TTWV-S-146	UNT to Blue Lick Creek^	188.4	Int	RPW	8.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
TTWV-S-147	UNT to Blue Lick Creek^	188.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-227	TF	-	Minor	-	-	-	-
TTWV-S-111	UNT to Blue Lick Creek*	188.8	Int	RPW	8.0	9.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-112	UNT to Blue Lick Creek*	188.8	Int	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-212	UNT to Hans Creek^	189.5	Eph	NRPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-G43	UNT to Hans Creek*	189.9	Eph	NRPW	5.0	5.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G44	UNT to Hans Creek*	189.9	Eph	NRPW	4.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G42	UNT to Hans Creek	190.0	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-MN4	UNT to Hans Creek	190.1	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MO-227.01	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-MN4	UNT to Hans Creek^	190.1	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-227.01	TF	-	Minor	-	-	-	-
TTWV-S-120	UNT to Blue Lick Creek*	190.9	Int	RPW	8.0	8.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-121	Blue Lick Creek	190.9	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-122	UNT to Hans Creek	191.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	-	-	-	-
TTWV-S-123	UNT to Hans Creek	191.0	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	B, C	-	-	-
TTWV-S-126	UNT to Hans Creek	191.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	-	-	-	-
TTWV-S-127	UNT to Hans Creek	191.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	-	-	-	-
TTWV-S-124	UNT to Hans Creek	191.1	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	B, C	-	-	-
TTWV-S-125	UNT to Hans Creek	191.1	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-228	TF	-	Minor	B, C	-	-	-
S-E43	UNT to Dry Creek*	191.7	Eph	RPW	7.0	7.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E45	UNT to Dry Creek*^	191.7	Eph	NRPW	3.0	4.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-E40	Dry Creek*+	192.0	Per	RPW	12.0	12.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	A,B,C	-	-	-
S-E41	UNT to Dry Creek*	192.0	Int	RPW	2.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	B, C	-	-	-
S-C38	UNT to Painter Run^	194.5	Int	RPW	7.0	7.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-C39	Painter Run*+	194.6	Per	RPW	5.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
S-C40	UNT to Painter Run*	194.6	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MO-231.01	TF	-	Minor	B, C	-	-	-
S-C41	UNT to Painter Run*	194.6	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-131	UNT to Painter Run*	194.6	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
TTWV-S-200	UNT to Painter Run	195.1	Int	RPW	5.0	-	<0.1	-	-	ATWS	MVP-ATWS-1060	TF	-	Minor	B, C	-	-	-
TTWV-S-200	UNT to Painter Run	195.1	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	B, C	-	-	-
Virginia Giles S-SS3	UNT to Kimballton Branch^	196.7	Eph	NRPW	3.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-PP14	Kimballton Branch~	196.7	Per	RPW	14.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Intermediate	AL	CW, WT	-	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-PP14	Kimballton Branch	196.7	Per	RPW	14.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Intermediate	-	-	-	-
S-PP15	UNT to Kimballton Branch	197.2	Per	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-PP15	UNT to Kimballton Branch	197.2	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-HH11	UNT to Clendennin Creek	197.8	Eph	NRPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-HH11	UNT to Clendennin Creek	197.8	Eph	NRPW	4.0	-	0.0	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-HH12	UNT to Clendennin Creek	197.8	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-HH13	UNT to Clendennin Creek	197.8	Per	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-HH13	UNT to Clendennin Creek	197.8	Per	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-HH14	UNT to Clendennin Creek	197.8	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-HH14	UNT to Clendennin Creek	197.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-HH15	UNT to Clendennin Creek	197.8	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-HH16	UNT to Clendennin Creek~	197.8	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-HH16	UNT to Clendennin Creek	197.8	Per	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-PP16	UNT to New River	197.8	Eph	NRPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-PP17	UNT to New River	197.8	Int	RPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-PP18	Curve Branch	197.8	Int	RPW	4.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-PP19	UNT to Curve Branch~	197.8	Int	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-PP19	UNT to Curve Branch	197.8	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-SS2	UNT to Clendennin Creek	197.8	Int	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-UU9	Clendennin Creek~	197.8	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-232	Fill / Culvert	-	Minor	-	-	-	-
S-UU9	Clendennin Creek	197.8	Per	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-232	TF	-	Minor	-	-	-	-
S-Q12	UNT to Kimballton Branch	198.9	Eph	NRPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-Q13	Kimballton Branch	198.9	Per	RPW	15.0	20.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	AL	CW, WT	-	October 1 - June 30
S-Q14	Kimballton Branch	198.9	Int	RPW	12.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-234	Fill / Culvert	-	Intermediate	AL	CW, WT	-	October 1 - June 30
S-P6	UNT to Stony Creek	200.1	Eph	NRPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-S5	Stony Creek+	200.3	Per	RPW	40.0	41.7	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	AL	CW, WT, ST, TE	Green floater, Candy darter, pistolgrip	August 15 - July 31
S-S5-Braid-1	Stony Creek+	200.3	Eph	NRPW	4.0	4.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-S5-Braid-2	Stony Creek+	200.3	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G29	UNT to Dry Branch	201.9	Eph	NRPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G30	UNT to Dry Branch*	202.0	Eph	NRPW	8.0	8.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G32	Dry Branch	202.3	Int	RPW	6.0	8.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G32	Dry Branch	202.4	Int	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-241.04	TF	-	Minor	-	-	-	-
S-AB13	UNT to Dry Branch*^	202.6	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-241.04	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-AB14	UNT to Dry Branch*^	202.6	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-241.04	TF	-	Minor	-	-	-	-
S-G33	UNT to Dry Branch*	202.6	Per	RPW	8.0	8.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G35	UNT to Little Stony Creek	203.5	Per	RPW	25.0	36.5	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	AL	CW, WT	-	October 1 - June 30
S-SS4	UNT to Little Stoney Creek	203.6	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Z9	UNT to Little Stony Creek	203.8	Per	RPW	4.0	4.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-Z7	UNT to Little Stony Creek	203.9	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-Z7-Braid-1	UNT to Little Stony Creek	203.9	Eph	NRPW	3.0	3.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Z10	UNT to Little Stony Creek*	204.2	Per	RPW	12.0	12.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL	CW, WT	-	October 1 - June 30
S-Z11	UNT to Little Stony Creek*	204.3	Per	RPW	5.0	5.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT, ST	-	October 1 - June 30
S-Z12	UNT to Little Stony Creek*	204.3	Int	RPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-Z13	Little Stony Creek*	204.3	Per	RPW	25.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-241.02	TF	6.7	Intermediate	AL	CW, WT, ST	-	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-Z13	Little Stony Creek	204.3	Per	RPW	25.0	26.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	AL	CW, WT, ST	-	October 1 - June 30
S-Z15	UNT to Little Stony Creek*^	204.3	Eph	NRPW	2.0	2.7	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	-	-	-	-
S-Z14	UNT to Little Stony Creek*	204.4	Int	RPW	4.0	4.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-YZ1	UNT to Doe Creek^	204.7	Eph	NRPW	10.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-GI-241.03	TF	-	Minor	-	-	-	-
S-A33	UNT to Doe Creek*	205.3	Eph	NRPW	7.0	10.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A34	UNT to Doe Creek*	205.3	Eph	NRPW	7.0	8.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A32	UNT to Doe Creek*	205.8	Per	RPW	16.0	16.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	-	-	-	-
S-Y2	Doe Creek*	206.7	Per	RPW	25.0	26.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	-	-	-	-
S-Y3	UNT to Doe Creek	206.7	Eph	NRPW	10.0	10.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E24	UNT to Sinking Creek*	207.8	Per	RPW	20.0	20.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL	CW, WT	-	October 1 - June 30
S-E25-Downstream	UNT to Sinking Creek*	207.8	Per	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-MN11-Downstream	UNT to Sinking Creek*^	207.8	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-242.01	TF	-	Minor	-	-	-	-
S-MN11-Upstream	UNT to Sinking Creek*^	207.8	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-242.01	TF	-	Minor	-	-	-	-
S-E25-Upstream	UNT to Sinking Creek	207.9	Per	RPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-RR4	UNT to Sinking Creek	208.3	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-243.01	TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-RR5	UNT to Sinking Creek	208.3	Per	RPW	10.0	11.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-RR3	UNT to Sinking Creek^	208.4	Eph	NRPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-243.01	TF	-	Minor	-	-	-	-
S-IJ18	UNT to Sinking Creek^	208.5	Int	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-244	TF	-	Minor	AL	-	-	-
S-IJ19	UNT to Sinking Creek^	208.5	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-244	TF	-	Minor	-	-	-	-
S-IJ19	UNT to Sinking Creek^	208.5	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1146	TF	-	Minor	-	-	-	-
S-IJ16-b	UNT to Sinking Creek	209.0	Eph	NRPW	5.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ17	UNT to Sinking Creek	209.0	Eph	NRPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-IJ16-a	UNT to Sinking Creek	209.3	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-245.01	TF	-	Minor	-	-	-	-
S-QQ3	UNT to Sinking Creek	209.9	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-245.02A	TF	-	Minor	-	-	-	-
S-QQ3-b	UNT to Sinking Creek	209.9	Eph	NRPW	4.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-245.02A	TF	-	Minor	-	-	-	-
S-NN17	Sinking Creek*+	211.0	Per	RPW	55.0	56.7	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL	CW, WT	-	October 1 - June 30
TTVA-S-R22 / S-OO19	UNT to Grass Run	212.9	Per	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
TTVA-S-RR1 / S-EF24	UNT to Greenbriar Branch	212.9	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-MM17	UNT to Sinking Creek	213.6	Per	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-253.02	TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-MM18	UNT to Sinking Creek	213.6	Eph	NRPW	5.0	5.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM17	UNT to Sinking Creek	213.7	Per	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-253.02	TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-NN12	UNT to Sinking Creek	214.2	Eph	NRPW	2.0	2.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-NN13	UNT to Sinking Creek	214.6	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-256.02	TF	-	Minor	AL	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-NN11	UNT to Sinking Creek	214.7	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-NN14	UNT to Sinking Creek	214.7	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-256.02	TF	-	Minor	AL	-	-	-
S-NN9	UNT to Sinking Creek	214.8	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-GI-256	Fill / Culvert	-	Minor	AL	CW, WT	-	October 1 - June 30
S-NN9	UNT to Sinking Creek	214.8	Per	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-GI-256	TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-KL43	UNT to Sinking Creek	214.9	Per	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-OO14	UNT to Sinking Creek	216.5	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30
S-OO12	UNT to Sinking Creek	216.6	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-OO13	UNT to Sinking Creek*	216.6	Per	RPW	20.0	20.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	AL	CW, WT	-	October 1 - June 30
Craig																		
S-CD14	UNT to Sinking Creek	216.9	Eph	NRPW	1.5	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-PP1	UNT to Sinking Creek	217.3	Int	RPW	3.0	3.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-PP3	UNT to Sinking Creek	217.7	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT	-	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-QQ2	Sinking Creek	217.7	Per	RPW	35.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-CR-258.02	TF	-	Intermediate	AL	CW, WT	-	October 1 - June 30
S-PP4	UNT to Sinking Creek	217.9	Int	RPW	2.0	2.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
Montgomery																		
S-PP22	UNT to Craig Creek^	218.8	Int	RPW	2.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-PP21	UNT to Craig Creek	219.1	Eph	NRPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-PP20	UNT to Craig Creek	219.2	Int	RPW	6.0	7.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-OO6	Craig Creek*	219.5	Per	RPW	35.0	35.2	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	AL	CW, TE	James spinymussel, Atlantic pigtoe	March 1 - July 31
S-RR13	Craig Creek*	219.7	Per	RPW	35.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-258.05	TF	6.7	Intermediate	AL	CW, TE	James spinymussel, Atlantic pigtoe	March 1 - July 31
S-RR14	UNT to Craig Creek*	219.7	Eph	NRPW	7.0	7.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-HH18	UNT to Craig Creek*	219.9	Per	RPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, TE	James spinymussel, Atlantic pigtoe	March 1 - July 31
S-ST1	UNT to Mill Creek*	221.3	Per	RPW	5.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-ST3	UNT to Mill Creek*	221.3	Per	RPW	8.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-200	UNT to Mill Creek	221.9	Per	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-201	Mill Creek*	222.4	Per	RPW	14.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	AL	CW, TE, WT	Orangefin madtom	October 1 - June 30
TTVA-S-202	UNT to Mill Creek	222.4	Per	RPW	14.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
TTVA-S-203	UNT to Mill Creek	222.4	Int	RPW	14.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Intermediate	-	-	-	-
S-IJ52	UNT to Mill Creek*	222.8	Per	RPW	7.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF49	Dry Run	225.3	Per	RPW	4.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-266.02	TF	-	Minor	-	-	-	-
S-EF49	Dry Run	225.3	Per	RPW	4.5	-	<0.1	-	-	ATWS	MVP-ATWS-1458	TF	-	Minor	-	-	-	-
TTVA-S-204	UNT to Dry Run	225.5	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-266.03	TF	-	Minor	-	-	-	-
S-EF21	UNT to North Fork Roanoke River	226.6	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-266	TF	-	Minor	-	-	-	-
S-EF22	UNT to North Fork Roanoke River^	226.6	Eph	NRPW	4.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-MN-266	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-G36	North Fork Roanoke River~	227.2	Per	RPW	20.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-268	Fill / Culvert	4	Intermediate	AL,FC, R, W	CW, TE, WT	Roanoke logperch, Orangefin madtom	October 1 - June 30
S-G36	North Fork Roanoke River	227.2	Per	RPW	20.0	25.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL,FC, R, W	CW, TE, WT	Roanoke logperch, Orangefin madtom	October 1 - June 30
S-NN8b	UNT to North Fork Roanoke River*	227.4	Eph	NRPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-268	Fill / Culvert	-	Minor	-	-	-	-
S-NN8b	UNT to North Fork Roanoke River*	227.4	Eph	NRPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-268	TF	-	Minor	-	-	-	-
S-NN8b	UNT to North Fork Roanoke River*	227.4	Eph	NRPW	5.0	-	<0.1	-	-	ATWS	MVP-ATWS-1160	TF	-	Minor	-	-	-	-
S-G38	UNT to North Fork Roanoke River	227.5	Eph	NRPW	3.0	3.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G39	UNT to North Fork Roanoke River*	227.8	Int	RPW	6.0	6.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G40	UNT to North Fork Roanoke River	227.9	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-PP23	UNT to North Fork Roanoke River	227.9	Eph	NRPW	2.5	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM15	UNT to Flatwoods Branch	228.7	Int	RPW	6.0	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM14	UNT to Flatwoods Branch	228.9	Eph	NRPW	7.0	9.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-KL6	UNT to Flatwoods Branch	229.1	Per	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-270	TF	-	Minor	-	-	-	-
S-MM13	UNT to Flatwoods Branch*^	229.1	Eph	NRPW	5.0	5.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM11	UNT to Flatwoods Branch*	229.2	Eph	NRPW	8.0	8.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F15	UNT to Flatwoods Branch*	229.3	Int	RPW	6.0	13.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F16a / F16b	UNT to Flatwoods Branch	229.4	Eph	NRPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C33	UNT to Flatwoods Branch*	229.6	Per	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C36	UNT to Flatwoods Branch*^	229.6	Int	RPW	3.0	3.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM31	UNT to Flatwoods Branch*^	229.6	Eph	NRPW	2.0	4.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL5	Flatwoods Branch	229.7	Int	RPW	4.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-272	TF	-	Minor	-	-	-	-
S-C29	Flatwoods Branch	229.8	Eph	NRPW	1.2	1.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C25	UNT to Bradshaw Creek*	230.3	Int	RPW	3.0	4.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-C24	UNT to Bradshaw Creek*	230.4	Int	RPW	3.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C21	Bradshaw Creek*+	230.8	Per	RPW	25.0	30.1	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL	CW, TE, WT	Roanoke logperch, Orangefin madtom	October 1 - June 30
S-OO11	UNT to Bradshaw Creek	231.0	Eph	NRPW	2.0	2.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-OO10	Bradshaw Creek	231.3	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-276.01	TF	-	Intermediate	AL	CW, TE, WT	Roanoke logperch, Orangefin madtom	October 1 - June 30
S-OO9	UNT to Bradshaw Creek	231.3	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-276.01	TF	-	Minor	-	-	-	-
S-GH16	North Fork Roanoke River	231.8	Per	RPW	70.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-MN-276.03	TF	-	Intermediate	AL, FC, R, W	CW, TE, WT	Roanoke logperch, Orangefin madtom	October 1 - June 30
S-GH20	UNT to Bradshaw Creek	231.9	Eph	NRPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-276.01	TF	-	Minor	-	-	-	-
TTVA-S-205	UNT to Roanoke River	234.1	Int	RPW	11.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-277.02	Fill / Culvert	-	Intermediate	-	-	-	-
TTVA-S-205	UNT to Roanoke River	234.1	Int	RPW	11.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-277.02	TF	-	Intermediate	-	-	-	-
S-OO16	UNT to Roanoke River	234.3	Per	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-NN19	UNT to Roanoke River	234.4	Int	RPW	3.5	3.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-NN16	Roanoke River*+	235.6	Per	TNW	70.0	79.6	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL	WW, TE	Roanoke logperch, Orangefin madtom	March 15 - July 15
S-AB16	UNT to Roanoke River	235.7	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-I1	UNT to Roanoke River	235.8	Int	RPW	14.0	14.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	AL	-	-	-
TTVA-S-CD12	UNT to South Fork Roanoke River	236.0	Per	RPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-279.01	Fill / Culvert	-	Minor	-	-	-	-
S-CD12	UNT to South Fork Roanoke River*~	236.1	Per	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF19	UNT to Indian Run*^	237.1	Eph	NRPW	1.0	1.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF20a	UNT to Roanoke River	237.6	Per	RPW	5.0	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF54	UNT to Roanoke River	237.6	Eph	NRPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-278.01	TF	-	Minor	-	-	-	-
Franklin																		
S-EF31	UNT to Flatwoods Branch^	229.4	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-270.01	TF	-	Minor	-	-	-	-
S-G24	UNT to Green Creek*	246.6	Per	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G25	UNT to Green Creek*	246.6	Int	RPW	7.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H1	Green Creek*	246.9	Per	RPW	10.0	11.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-RR16	Green Creek*	246.9	Per	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-FR-289	Fill / Culvert	-	Minor	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-RR17 / RR18	UNT to Green Creek^~	247.2	Int	RPW	2.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-FR-289	Fill / Culvert	-	Minor	AL	-	-	-
S-G26	UNT to Green Creek*	247.3	Int	RPW	7.0	7.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G27	UNT to Green Creek*	247.3	Per	RPW	7.0	7.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF17	UNT to Green Creek^	248.3	Int	RPW	1.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-FR-291	Fill / Culvert	-	Minor	-	-	-	-
S-EF18	UNT to Green Creek	248.3	Int	RPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1249	TF	-	Minor	-	-	-	-
S-D17	UNT to North Fork Blackwater River~	248.7	Int	RPW	7.0	12.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-D12	UNT to North Fork Blackwater River	248.9	Int	RPW	6.0	6.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-D13	UNT to North Fork Blackwater River	248.9	Int	RPW	4.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-D11	UNT to North Fork Blackwater River	249.0	Per	RPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTVA-S-311	UNT to North Fork Blackwater River	249.7	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-292.01	TF	-	Minor	-	-	-	-
S-D10	UNT to North Fork Blackwater River	249.8	Int	RPW	8.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-FR-292.01	Fill / Culvert	-	Minor	-	-	-	-
S-D10	UNT to North Fork Blackwater River*	249.8	Int	RPW	8.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-292.01	TF	-	Minor	-	-	-	-
S-D8	North Fork Blackwater River*+	249.8	Per	RPW	18.0	18.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL, FC, R, W	CW, TE, WT	Roanoke logperch	October 1 - June 30
S-II4	UNT to North Fork Blackwater River*	251.0	Per	RPW	15.0	15.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	-	-	-	-
S-MM27	UNT to North Fork Blackwater River~	251.1	Per	RPW	7.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-FR-293.01	Fill / Culvert	Alternative Mitigation	Minor	-	-	-	-
TTVA-S-GH7	UNT to North Fork Blackwater River	251.9	Per	RPW	9.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH7	UNT to North Fork Blackwater River	252.0	Per	RPW	9.0	26.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH15	UNT to North Fork Blackwater River*^	252.2	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH14	UNT to North Fork Blackwater River*	252.3	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH11	UNT to North Fork Blackwater River*	252.4	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-GH9	UNT to North Fork Blackwater River*	252.5	Per	RPW	4.0	4.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-RR08	UNT to North Fork Blackwater River	252.7	Eph	NRPW	7.0	7.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-RR09	UNT to North Fork Blackwater River*	252.8	Eph	NRPW	9.0	9.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-RR11	UNT to North Fork Blackwater River*	252.9	Eph	NRPW	7.0	7.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ1	UNT to North Fork Blackwater River*	253.9	Per	RPW	12.0	12.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-IJ2	UNT to North Fork Blackwater River*^	253.9	Int	RPW	2.5	2.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ3	UNT to North Fork Blackwater River*^	253.9	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ4	UNT to North Fork Blackwater River	254.1	Per	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ8	UNT to Little Creek^	254.5	Eph	NRPW	1.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ10	Little Creek	255.5	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL1	UNT to Little Creek	256.0	Per	RPW	4.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-KL2	UNT to Little Creek	256.0	Per	RPW	3.7	3.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL3	UNT to Little Creek	256.1	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-294	TF	-	Minor	-	-	-	-
S-II8	UNT to Little Creek	256.2	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-II7	UNT to Little Creek*	256.3	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-II9	UNT to Little Creek	256.4	Per	RPW	20.0	21.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL, FC, R, W	-	-	-
S-II11	UNT to Little Creek	256.5	Per	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-II12	UNT to Little Creek	256.5	Int	RPW	2.0	2.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-GH6	UNT to Little Creek	256.8	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-II6	UNT to Little Creek*	257.1	Int	RPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-
S-E28	Teels Creek*+	258.3	Per	RPW	12.0	15.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-GH5	UNT to Teels Creek*	258.3	Int	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-GH3	UNT to Teels Creek	258.6	Per	RPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH4	UNT to Teels Creek	258.6	Per	RPW	5.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH2	UNT to Teels Creek	258.7	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E29	UNT to Teels Creek	258.9	Per	RPW	9.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-296	TF	-	Minor	-	-	-	-
S-E29	UNT to Teels Creek	258.9	Per	RPW	8.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E28	Teels Creek	259.2	Per	RPW	12.0	15.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-EF2	UNT to Teels Creek*	259.4	Int	RPW	2.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-297	TF	-	Minor	-	-	-	-
S-EF28	Teels Creek*	259.4	Per	RPW	12.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-EF4	UNT to Teels Creek*	259.9	Per	RPW	11.0	11.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-EF12	UNT to Teels Creek*	260.3	Per	RPW	20.0	21.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-EF7	UNT to Teels Creek	260.3	Eph	NRPW	2.0	-	<0.1	-	-	ATWS	MVP-ATWS-1444	TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-EF7	UNT to Teels Creek	260.3	Eph	NRPW	2.0	2.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM42	UNT to Teels Creek	260.7	Eph	NRPW	2.0	2.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-RR15	UNT to Teels Creek*	260.9	Per	RPW	14.0	17.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	-	-	-	-
S-D22	UNT to Teels Creek*	261.1	Int	RPW	8.0	9.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-D23	UNT to Teels Creek*	261.1	Per	RPW	20.0	24.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-D20	UNT to Teels Creek*	261.3	Int	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-D18	UNT to Teels Creek	261.4	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF13	UNT to Teels Creek^	261.7	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-302	TF	-	Minor	-	-	-	-
S-C14	Teels Creek*+	262.0	Per	RPW	50.0	59.5	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-C16	UNT to Teels Creek*	262.1	Per	RPW	15.0	15.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	-	-	-	-
S-C17	Teels Creek*+	262.4	Per	RPW	30.0	41.0	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-CD6	Little Creek*+	262.7	Per	RPW	56.0	57.1	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-II2	Little Creek*+	263.4	Per	RPW	60.0	60.4	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	AL, FC, R, W	TE	Roanoke Logperch	March 15 - June 30
S-CD1	UNT to Blackwater River	264.1	Per	RPW	3.5	3.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL35	UNT to Blackwater River	264.9	Per	RPW	2.5	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL36	UNT to Blackwater River	265.0	Per	RPW	7.5	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL38	UNT to Blackwater River*	265.2	Per	RPW	7.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-306.03	TF	-	Minor	-	-	-	-
S-KL38	UNT to Blackwater River*	265.2	Per	RPW	7.0	7.2	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	-	-	-	-
S-KL39	UNT to Blackwater River	265.7	Per	RPW	6.5	6.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-YZ5	UNT to Blackwater River	265.9	Eph	NRPW	4.0	4.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-LK36	UNT to Blackwater River*	266.0	Per	RPW	8.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-306.02	TF	-	Minor	-	-	-	-
S-YZ4	UNT to Blackwater River*	266.0	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-EF48	UNT to Blackwater River*^	266.3	Int	RPW	2.0	2.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL41	UNT to Blackwater River*	267.0	Per	RPW	12.0	12.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-C8	UNT to Blackwater River	267.7	Int	RPW	5.0	5.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F4	UNT to Blackwater River^	267.7	Eph	NRPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-310	UNT to Blackwater River	268.0	Per	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-307	UNT to Maggodee Creek	268.6	Per	RPW	20.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	-	-	-	-
TTVA-S-308	UNT to Maggodee Creek	268.6	Int	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-309	UNT to Maggodee Creek	268.6	Int	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-S11	UNT to Maggodee Creek	268.9	Per	RPW	11.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-310	TF	-	Intermediate	-	-	-	-
S-F8	UNT to Maggodee Creek*	269.0	Per	RPW	30.0	32.3	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	-	-	-	-
S-HH4	UNT to Maggodee Creek*^	269.1	Int	RPW	9.0	9.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-C20	UNT to Maggodee Creek	269.2	Eph	NRPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-311	TF	-	Minor	-	-	-	-
S-C20	UNT to Maggodee Creek^	269.2	Eph	NRPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C19	Maggodee Creek*+	269.5	Per	RPW	45.0	45.0	0.1	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL	TE	Roanoke Logperch	March 15 - June 30
S-F11	Blackwater River*	269.8	Per	TNW	90.0	91.0	0.2	0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6.7	Intermediate	AL, FC, R, W, PWS	TE	Roanoke Logperch	March 15 - June 30
S-MM23	Maple Branch	270.2	Per	RPW	20.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-313	TF	-	Intermediate	-	-	-	-
S-MM29	UNT to Maple Branch	270.2	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-FR-313	TF	-	Intermediate	-	-	-	-
S-F9b	UNT to Blackwater River*	270.3	Per	NRPW	15.0	15.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	Alternative Mitigation	Intermediate	-	-	-	-
S-F10	UNT to Blackwater River^	270.5	Eph	NRPW	9.0	11.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-F9a	UNT to Blackwater River^	270.6	Int	RPW	15.0	12.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-GG4	UNT to Blackwater River	271.0	Eph	NRPW	5.0	5.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A36	UNT to Foul Ground Creek^	271.4	Eph	NRPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-A38	UNT to Foul Ground Creek^	271.7	Int	RPW	9.0	56.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A40	UNT to Foul Ground Creek^	271.7	Int	RPW	5.8	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-A41	Foul Ground Creek*+	272.4	Per	RPW	12.0	12.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-GH36	UNT to Foul Ground Creek^	273.0	Int	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH37	UNT to Foul Ground Creek^	273.0	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH38	UNT to Foul Ground Creek^	273.0	Int	RPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-GH39	UNT to Foul Ground Creek	273.0	Int	RPW	4.0	11.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL17	UNT to Foul Ground Creek	273.0	Int	RPW	5.0	7.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH40	UNT to Foul Ground Creek^	273.2	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GH44	UNT to Foul Ground Creek	273.3	Per	RPW	6.0	8.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ47	UNT to Foul Ground Creek	273.3	Eph	NRPW	2.0	-	<0.1	0.0	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-G22	UNT to Poplar Camp Creek*	274.2	Per	RPW	12.0	12.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	-	-	-	-
S-G21	UNT to Poplar Camp Creek^	274.3	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G23	UNT to Poplar Camp Creek	274.3	Int	RPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G20	Poplar Camp Creek	274.4	Per	RPW	10.0	10.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W, PWS	-	-	-
S-G18	UNT to Blackwater River	275.1	Int	RPW	2.0	2.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G17	UNT to Blackwater River	275.4	Eph	NRPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E18	UNT to Blackwater River	275.8	Per	RPW	7.0	7.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E17	UNT to Blackwater River	276.1	Per	RPW	8.0	9.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E14	UNT to Blackwater River*	276.6	Per	RPW	20.0	21.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-H38	UNT to Jacks Creek*	277.5	Per	RPW	12.0	13.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	-	-	-	-
S-H37	UNT to Jacks Creek	277.8	Eph	NRPW	6.0	6.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H36	UNT to Jacks Creek*	277.9	Per	RPW	3.0	31.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H34	UNT to Jacks Creek*	278.1	Per	RPW	3.0	3.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H32	UNT to Jacks Creek*	278.3	Per	RPW	10.0	10.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	TE	Orangefin madtom	March 15 - May 31
S-H30	UNT to Jacks Creek^	278.6	Int	RPW	1.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	AL	-	-	-
S-A18	UNT to Jacks Creek^	278.7	Int	RPW	2.6	3.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A19 / H26	UNT to Jacks Creek*	278.8	Int	RPW	7.0	24.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A20	UNT to Jacks Creek*	278.8	Per	RPW	7.0	11.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	TE	Orangefin madtom	March 15 - May 31
S-H27	UNT to Jacks Creek	279.2	Eph	NRPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H28	UNT to Jacks Creek	279.2	Eph	NRPW	6.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-A22	UNT to Jacks Creek*	279.3	Int	RPW	8.0	9.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM44	UNT to Little Jacks Creek	279.5	Per	RPW	4.0	4.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM45	UNT to Little Jacks Creek^	279.6	Eph	NRPW	4.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-MM46	UNT to Little Jacks Creek^	279.6	Int	RPW	3.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-MM48	UNT to Little Jacks Creek*	279.9	Per	RPW	7.0	9.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H24	UNT to Little Jacks Creek*	280.0	Per	RPW	10.0	46.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H25	Little Jacks Creek*	280.0	Per	RPW	7.0	9.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H23	UNT to Turkey Creek	280.3	Eph	NRPW	5.0	5.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-HH1	UNT to Turkey Creek^	280.5	Eph	NRPW	5.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A13	Turkey Creek*	280.6	Per	RPW	8.0	12.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	TE	Orangefin madtom	March 15 - May 31
S-A11	UNT to Turkey Creek^	280.8	Eph	NRPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A7	UNT to Dinner Creek	281.2	Per	RPW	6.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H17	Dinner Creek	281.2	Int	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-SS8	Polecat Creek*	281.5	Per	RPW	8.0	12.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-CD8	UNT to Owens Creek*	281.7	Int	RPW	4.5	4.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-AB8	UNT to Owens Creek*	281.9	Int	RPW	4.0	5.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-DD3	Owens Creek*	282.2	Int	RPW	15.0	18.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	AL	TE	Orangefin madtom	March 15 - May 31
S-G16	Strawfield Creek*	282.4	Per	RPW	30.0	30.0	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL	TE	Orangefin madtom	March 15 - May 31
S-G15	UNT to Parrot Branch*	282.7	Int	RPW	9.0	9.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G13	Parrot Branch*	283.0	Per	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	TE	Orangefin madtom	March 15 - May 31
S-D7	UNT to Jonnikin Creek^	283.8	Int	RPW	8.0	8.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
Roanoke																		
S-MN13	UNT to Roanoke River	233.9	Int	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-277.02	Fill / Culvert	-	Minor	-	-	-	-
S-MN13	UNT to Roanoke River	233.9	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-277.02	TF	-	Minor	-	-	-	-
TTVA-S-MN13	UNT to Roanoke River	233.9	Int	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-277.02	TF	-	Minor	-	-	-	-
TTVA-S-206	UNT to Roanoke River~	234.0	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-277.02	Fill / Culvert	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
TTVA-S-206	UNT to Roanoke River	234.0	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-277.02	TF	-	Minor	-	-	-	-
TTVA-S-207	UNT to Roanoke River~	234.0	Int	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-MN-277.02	Fill / Culvert	-	Minor	-	-	-	-
TTVA-S-207	UNT to Roanoke River	234.0	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-277.02	TF	-	Minor	-	-	-	-
S-KL32	UNT to Roanoke River	237.0	Per	RPW	2.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-278.01	TF	-	Minor	-	-	-	-
S-EF20c	UNT to Roanoke River	237.6	Per	RPW	10.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-MN-278.01	TF	-	Minor	-	-	-	-
S-EF20d	UNT to Roanoke River	237.7	Per	RPW	7.0	-	0.1	-	-	Access Roads Work Space Temporary	MVP-MN-278.01	TF	-	Minor	-	-	-	-
S-MM22	UNT to Roanoke River*^	238.1	Per	RPW	15.0	64.4	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	-	-	-	-
S-IJ50	UNT to Roanoke River*	239.7	Per	RPW	10.0	10.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Y13	UNT to Bottom Creek*^	240.8	Int	RPW	8.0	9.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-Y14	UNT to Bottom Creek*	240.8	Per	RPW	14.0	14.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	5	Intermediate	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-EF32	Bottom Creek*	241.5	Per	RPW	14.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-281	TF	-	Intermediate	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-EF34	UNT to Bottom Creek*	241.6	Per	RPW	10.0	-	<0.1	-	-	ATWS	MVP-ATWS-1229	TF	-	Minor	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-EF34	UNT to Bottom Creek*	241.6	Per	RPW	10.0	18.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-EF35	UNT to Bottom Creek*^	241.6	Int	RPW	4.0	8.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF32	Bottom Creek	241.7	Per	RPW	15.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-282	TF	-	Intermediate	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-EF33	UNT to Bottom Creek	241.7	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
TTVA-S-026	UNT to Bottom Creek	242.3	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1303	TF	-	Minor	-	-	-	-
TTVA-S-028	UNT to Bottom Creek~	242.3	Per	RPW	6.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-RO-283	Fill / Culvert	-	Minor	-	-	-	-
TTVA-S-029	UNT to Bottom Creek^	242.3	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1303	TF	-	Minor	-	-	-	-
TTVA-S-302	UNT to Bottom Creek	242.3	Int	RPW	4.0	-	<0.1	-	-	ATWS	MVP-ATWS-1303	TF	-	Minor	-	-	-	-
TTVA-S-303	UNT to Bottom Creek^~	242.3	Eph	NRPW	3.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-RO-283	Fill / Culvert	-	Minor	-	-	-	-
TTVA-S-303	UNT to Bottom Creek^	242.3	Eph	NRPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-283	TF	-	Minor	-	-	-	-
TTVA-S-030	Bottom Creek	242.4	Per	RPW	10.0	10.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-KL25	UNT to Mill Creek	243.1	Int	RPW	3.0	3.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-032	UNT to Mill Creek	243.7	Per	RPW	5.0	5.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF51	UNT to Bottom Creek	244.2	Int	RPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-285	TF	-	Minor	-	-	-	-
S-EF52	UNT to Bottom Creek	244.2	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-285	TF	-	Minor	-	-	-	-
S-IJ12	UNT to Mill Creek	244.2	Per	RPW	3.5	3.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
TTVA-S-306	UNT to Mill Creek	244.2	Int	RPW	5.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-285	TF	-	Minor	-	-	-	-
TTVA-S-EF51	UNT to Bottom Creek	244.2	Int	RPW	1.5	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-285	TF	-	Minor	-	-	-	-
TTVA-S-EF52	UNT to Bottom Creek	244.2	Int	RPW	4.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-285	TF	-	Minor	-	-	-	-
S-EF44	UNT to Bottom Creek^	244.7	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ43	Mill Creek	245.1	Per	RPW	15.0	15.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	AL	CW, WT, TE	Orangefin madtom	October 1 - June 30
S-Y7	UNT to Mill Creek	245.4	Int	RPW	4.0	5.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-Y8	UNT to Mill Creek	245.4	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Y9	UNT to Mill Creek	245.4	Int	RPW	4.0	-	<0.1	<0.1	-	Permanent Easement	-	OCDD	-	Minor	-	-	-	-
S-Z16	UNT to Mill Creek	245.4	Per	RPW	3.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-287	TF	-	Minor	-	-	-	-
S-Z17	UNT to Mill Creek	245.4	Per	RPW	6.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-RO-287	TF	-	Minor	-	-	-	-
S-KL4	UNT to Mill Creek	245.8	Int	RPW	3.5	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-RO-288	Fill / Culvert	-	Minor	-	-	-	-
S-Q20	UNT to Mill Creek	245.8	Per	RPW	5.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-RO-288	Fill / Culvert	-	Minor	-	-	-	-
S-B22	UNT to Mill Creek	245.9	Per	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B23	UNT to Mill Creek	245.9	Int	RPW	2.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-B25	UNT to Mill Creek^	245.9	Eph	NRPW	5.0	7.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B21	UNT to Mill Creek	246.0	Per	RPW	4.0	4.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
Pittsylvania																		
S-D3	UNT to Jonnikin Creek	284.5	Per	TNW	10.0	10.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	TE	Orangefin madtom	March 15 - May 31

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-D4	UNT to Jonnikin Creek^	284.5	Int	RPW	6.0	9.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL	-	-	-
S-D2	Jonnikin Creek	284.8	Per	RPW	18.0	18.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-D1-EPH	UNT to Jonnikin Creek^	285.0	Eph	RPW	10.0	10.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-D1-INT	UNT to Jonnikin Creek	285.0	Int	RPW	10.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G11	UNT to Jonnikin Creek	285.4	Int	RPW	6.0	6.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G9	UNT to Jonnikin Creek	285.7	Int	RPW	4.0	4.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G8	UNT to Jonnikin Creek	285.9	Int	RPW	4.0	4.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Q15	UNT to Jonnikin Creek^	285.9	Eph	NRPW	5.0	8.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A5	UNT to Rocky Creek^	286.2	Eph	NRPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A6	UNT to Rocky Creek	286.4	Per	RPW	5.0	5.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H11	UNT to Rocky Creek^	286.6	Eph	NRPW	3.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-H11-Braid	UNT to Rocky Creek	286.6	Eph	NRPW	2.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-ST4	UNT to Rocky Creek	286.8	Eph	NRPW	1.0	-	<0.1	-	-	Access Roads Work Space Temporary	MVP-PI-326	TF	-	Minor	-	-	-	-
S-F1	UNT to Rocky Creek	287.1	Eph	NRPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C7	UNT to Rocky Creek*	287.2	Per	RPW	20.0	20.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	7	Intermediate	AL	TE	Orangefin madtom	March 15 - May 31
S-F2	UNT to Rocky Creek*	287.2	Eph	NRPW	7.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E12	UNT to Pigg River	288.5	Eph	NRPW	3.0	-	0.0	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-E11	Pigg River*+	289.2	Per	TNW	100.0	100.1	0.2	0.1	-	Permanent Easement / Temporary Workspace	-	HDD / TF	6.7	Major	AL, FC, R, W	TE	noke logperch, Yellow lampmussel, Orangefin Mad	- June 30; August 15 - September
S-H8	UNT to Pigg River	289.4	Eph	NRPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-A4	UNT to Pigg River	289.5	Per	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H7	UNT to Pigg River	289.5	Int	RPW	5.0	5.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C4	UNT to Harpen Creek	289.9	Per	RPW	4.0	6.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-C3	Harpen Creek*+	290.0	Per	RPW	18.0	18.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	AL, FC, R, W	TE	Roanoke logperch, Orangefin madtom	March 1 - June 30
S-H13	Harpen Creek*+	290.6	Per	RPW	20.0	20.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	6	Intermediate	AL, FC, R, W	TE	Orangefin madtom	March 15 - May 31
S-G6	UNT to Harpen Creek	291.3	Int	RPW	6.0	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G5	UNT to Harpen Creek	291.9	Eph	NRPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G4	Harpen Creek*+	292.1	Per	RPW	30.0	33.0	0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	AL, FC, R, W	TE	Orangefin madtom	March 15 - May 31
S-G3	UNT to Harpen Creek	292.2	Per	RPW	9.0	9.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC16	UNT to Harpen Creek*	292.6	Per	RPW	11.0	11.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	-	-	-	-
S-CC13	UNT to Cherrystone Creek	293.6	Int	ISOLATED	7.0	7.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC14	UNT to Cherrystone Creek	293.6	Int	RPW	8.0	8.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM8	UNT to Cherrystone Creek	293.9	Per	RPW	6.0	6.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC15	UNT to Cherrystone Creek	294.0	Per	RPW	6.0	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-CC5	UNT to Cherrystone Creek*	294.3	Per	RPW	12.0	21.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	4	Intermediate	-	-	-	-
S-CC8	UNT to Cherrystone Creek*^	294.3	Int	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC9	UNT to Cherrystone Creek^	294.6	Eph	NRPW	5.5	5.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC10	UNT to Cherrystone Creek	294.7	Int	RPW	9.0	9.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-CC11	UNT to Cherrystone Creek	294.9	Per	RPW	8.0	8.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-MM10	UNT to Cherrystone Creek^	294.9	Int	RPW	7.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-CC1	Cherrystone Creek	295.3	Per	RPW	15.0	16.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-CC3	UNT to Cherrystone Creek^	295.4	Per	RPW	8.0	8.5	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-P5	UNT to Cherrystone Creek^	295.6	Eph	NRPW	5.0	6.8	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-IJ35-INT	UNT to Pole Bridge Branch	296.1	Eph	NRPW	5.5	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Q4	UNT to Pole Bridge Branch	296.5	Per	RPW	5.0	6.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-Q2	UNT to Pole Bridge Branch*	296.7	Per	RPW	7.0	8.7	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-Q3	Pole Bridge Branch	296.7	Per	RPW	25.0	25.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-Q1	UNT to Pole Bridge Branch^	296.8	Eph	NRPW	4.0	-	<0.1	-	-	Temporary Workspace	-	TF	-	Minor	-	-	-	-
S-B6	UNT to Pole Bridge Branch	297.3	Eph	NRPW	10.0	11.9	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B8	UNT to Pole Bridge Branch	297.4	Int	RPW	4.0	4.6	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-B9	UNT to Pole Bridge Branch	297.5	Per	RPW	7.0	7.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-E5	UNT to Mill Creek	298.3	Per	RPW	10.0	-	<0.1	-	<0.1	Access Roads Work Space Permanent	MVP-PI-338	Fill / Culvert	-	Minor	-	-	-	-
S-DD4	UNT to Mill Creek	298.4	Int	RPW	6.0	6.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-KL27	UNT to Mill Creek^	298.8	Eph	NRPW	1.0	1.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-C1	Mill Creek	299.1	Int	RPW	6.0	6.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-G2	Little Cherrystone Creek+	300.1	Per	RPW	3.5	7.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	AL, FC, R, W	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/, g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/
S-B2	UNT to Little Cherrystone Creek^	300.6	Eph	NRPW	5.0	5.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H55	UNT to Little Cherrystone Creek^	301.3	Eph	NRPW	3.0	3.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-GG11	UNT to Little Cherrystone Creek*	301.5	Per	RPW	8.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H54	UNT to Little Cherrystone Creek*	301.5	Per	RPW	12.0	14.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	3 or 4	Intermediate	-	-	-	-
S-H3	UNT to Little Cherrystone Creek^	302.2	Int	RPW	6.0	-	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H5	UNT to Little Cherrystone Creek	302.2	Per	RPW	8.0	9.1	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-OO1	UNT to Little Cherrystone Creek	302.5	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-OO2	UNT to Little Cherrystone Creek	302.7	Int	RPW	5.0	5.3	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-EF26	Little Cherrystone Creek+	303.0	Per	RPW	24.0	21.2	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Intermediate	AL, FC, R, W	-	-	-
S-H42	UNT to Little Cherrystone Creek~	303.3	Int	RPW	5.0	5.0	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-
S-H44	UNT to Little Cherrystone Creek	303.3	Per	RPW	8.0	11.4	<0.1	<0.1	-	Permanent Easement / Temporary Workspace	-	OCDD / TF	-	Minor	-	-	-	-

APPENDIX F1 (continued)

Waterbodies Crossed by the Mountain Valley Project

Waterbody ID	Waterbody Name a/	Milepost	Flow Regime b/	Water Type c/	Top of Bank Width (ft)	Length of Pipeline Crossing (ft)	Temporary Acreage Impact	Permanent Acreage Impact	Permanent Access Road Impact	Project Component	Component ID	Crossing Method d/	Pipeline Burial Depth (ft)[3] e/	FERC Classification	Classification f/ , g/	Fishery Type h/	Fish Species i/	Time of Year Restriction j/

Notes

~ Requires mitigation for permanent impacts

^ First order streams both originating, and maintaining first order status, within the project's limits of disturbance.

* Waterbodies crossed by the MVP in areas of shallow bedrock

+ Waterbodies listed on a state's 303(d) list of impaired waters

a/ UNT - Unnamed Tributary

b/ Flow Regime: Eph = Ephemeral, Int = Intermittent, Per = Perennial

c/ From Federal Register / Vol. 80, No. 124 / Monday, June 29, 2015 / Rule: Ephemeral streams (rain-dependent streams) have flowing water only in response to precipitation events in a typical year and are always above the water table. Intermittent streams (seasonal streams) are those that have both precipitation and groundwater providing part of the stream's flow and that flow continuously only during certain times of the year (e.g., during certain seasons such as the rainy season). Perennial streams have water present year round when rainfall is normal or above normal.

UNT = Unnamed Tributary, RPW = Relatively Perm. Waters, NRPW = Non-Relatively Perm. Waters, TNW = Traditional Navigable Waters, ISO = Isolated

d/ For instances in which the pipeline crossing length is greater than top of bank width it is either due to the pipeline not crossing perpendicular to the waterbody or the pipeline crossing the stream more than once because of the meandering or branched nature of the waterbody.

e/ OCDD = Open-Cut Dry Ditch, HDD – based on recommendation in sections 4.3 and 5.2.

f/ Pipeline burial depth is a proposed mitigation measure for potential waterbody impacts due to vertical scour. Burial depth varies according to Mountain Valley's vertical scour estimates, which were determined for Per waterbody crossings only and were filed with the Secretary on February 9, 2017. Some Per crossings in this table may not have Pipeline Burial Depth values due to changes in the route that occurred after the February 9, 2017 filing.

g/ West Virginia State Water Classifications: (Source: WVDEP)

A = Public water, B = Propagation and Maintenance of fish and other aquatic life includes: warm water fishery, trout waters, and wetland, C = Water Contact Recreation, D = Irrigation, Wildlife, Livestock watering, E = Water transport, Cooling water, Power production, Industrial

h/ Virginia State Water Classifications: (Source: VDEQ)

AL = Propagation and Maintenance of fish and other aquatic life, FC = Production of edible and marketable natural resources including fish and shellfish, R = Water Contact Recreation, including swimming and boating, W = Wildlife; PWS = Public Water Supply, No data = This stream has not been accessed by the VDEQ and there is no data

i/ Fishery Type: (Sources: WVDNR and VADGIF)

M = Mussel Stream, B2 = Trout Waters (WV only), CW = Coldwater Stream, WW = Warmwater Stream, TE = Threatened and Endangered Species Stream WT = Wild Trout Stream (VA only), ST = Stocked Trout Steam (VA only)

j/ VADGIF in-stream construction restriction by species:

Atlantic pigtow mussel and James spinymussel: May 15-July 31; Green floater mussel and Yellow lampmussel: April 15 - June 15 and August 15 - September 30; Orangefin madtom March 15 - May 31; Roanoke logperch March 15 - June 30

k/ TOYR - Time of Year Restriction = Any span of time within time-of-year restrictions set forth by U.S. Army Corps of Engineer's 401 Water Quality Certification for streams crossed in WV and by VDGIF in VA for streams containing rare, threatened, or endangered species. TOYR will be reviewed by the states on a case by case basis.

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APPENDIX F-2

Waterbodies Crossed by the Projects

Equitrans Expansion Project

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APPENDIX F-2

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID a/	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
PENNSYLVANIA																		
Greene																		
H-158	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	10.7 l/	N/A	N/A	Open-cut dry	Minor	10.0	WWF	WW	NR	3	3
H-158	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	10.0	WWF	WW	NR	N/A	N/A
H-158 and M-80	S-AA1	0	UNT / South Fork Tenmile Creek	Per	Temp.	ATWS	M80-H158-ATWS-01	N/A	0.0	0.1	N/A	Minor	10.0	WWF	WW	NR	N/A	N/A
H-158 and M-80	S-AA6	0	UNT / South Fork Tenmile Creek	Per	Temp.	ATWS	M80-H158-ATWS-01	N/A	0.0	0.0	N/A	Inter-mediate	16.0	WWF	WW	NR	N/A	N/A
M-80	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	10.7l/	N/A	N/A	Open-cut dry	Minor	10.0	WWF	WW	NR	3	3
H-305	S-N1	0.1	UNT / South Fork Tenmile Creek	Int	Temp.	ATWS	H305 ATWS01	N/A	N/A	0.0	N/A	Minor	7.0	WWF	WW	NR	N/A	N/A
H-305	S-N1	0.1	UNT / South Fork Tenmile Creek	Int	Temp.	Workspace	N/A	N/A	N/A	0.0	N/A	Minor	7.0	WWF	WW	NR	N/A	N/A
H-316	S-AA3	0.1	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	4.4 l/	N/A	N/A	Open-cut dry	Minor	4.0	WWF	WW	NR	2	3
H-316	S-AA3	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	4.0	WWF	WW	NR	N/A	N/A
H-316	S-AA4	0.2	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	5.2 l/	N/A	N/A	Open-cut dry	Minor	5.0	WWF	WW	NR	2	3
H-316	S-AA4	0.2	UNT / South Fork Tenmile Creek	Per	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	5.0	WWF	WW	NR	N/A	N/A
H-316	S-AA8	0.8	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	4.1 l/	N/A	N/A	Open-cut dry	Minor	4.0	WWF	WW	NR	2	3
H-316	S-AA8	0.8	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	4.0	WWF	WW	NR	N/A	N/A
H-316	S-AA10	1.1	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	5.0	N/A	N/A	Open-cut dry	Minor	5.0	WWF	WW	NR	3	3
H-316	S-AA10	1.1	UNT / South Fork Tenmile Creek	Int	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	5.0	WWF	WW	NR	N/A	N/A
H-316	S-AA11	1.3	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	9.6 l/	N/A	N/A	Open-cut dry	Minor	5.0	WWF	WW	NR	2	3
H-316	S-AA11	1.3	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	6.5	WWF	WW	NR	N/A	N/A
H-316	S-AA12	1.3	Ruff Creek	Per	Route Ctl	Pipeline Route	N/A	51.5	N/A	N/A	Open-cut dry	Inter-mediate	60.0	WWF	WW	NR	2	3
H-316	S-AA12	1.3	Ruff Creek	Per	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Inter-mediate	60.0	WWF	WW	NR	N/A	N/A
H-316	S-AA13	2	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	3.2 l/	N/A	N/A	Open-cut dry	Minor	3.0	WWF	WW	NR	2	3
H-316	S-AA13	2	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	3.0	WWF	WW	NR	N/A	N/A
H-316	S-AA14	2.1	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	3.1 l/	N/A	N/A	Open-cut dry	Minor	3.0	WWF	WW	NR	2	3
H-316	S-AA14	2.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	3.0	WWF	WW	NR	N/A	N/A

APPENDIX F-2

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID a/	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
H-316	S-AA15	2.3	South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	96.2	N/A	N/A	HDD	Inter-mediate	100.0	WWF	WW	NR	3	30
H-316	S-AA21	2.5	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	4.3 l/	N/A	N/A	HDD i/	Minor	4.0	WWF	WW	NR	3	215
H-316	S-AA22	2.5	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	7.1 l/	N/A	N/A	HDD i/	Minor	7.0	WWF	WW	NR	3	215
H-316	S-AA23	2.5	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	9.2 l/	N/A	N/A	HDD i/	Minor	9.0	WWF	WW	NR	3	220
H-316	S-AA24	2.5	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	8.2	N/A	N/A	HDD i/	Minor	9.0	WWF	WW	NR	3	205
H-316	S-AA20	2.7	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	1.8 l/	N/A	N/A	HDD i/	Minor	1.0	WWF	WW	NR	3	205
H-316	S-AA17	2.8	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	12.5 l/	N/A	N/A	HDD i/	Inter-mediate	12.0	WWF	WW	NR	3	45
H-316	S-AA18	2.8	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	2.6	N/A	N/A	HDD i/	Minor	6.0	WWF	WW	NR	3	40
H-316	S-AA19	2.8	UNT / South Fork Tenmile Creek	Int	Temp.	Workspace	N/A	N/A	N/A	0.0	N/A	Minor	5.0	WWF	WW	NR	N/A	N/A
H-316	S-AA16	3	UNT / South Fork Tenmile Creek	Per	Access Ctl	Access Roads	H316 AR 07a	6.3 l/	N/A	N/A	N/A	Minor	5.0	WWF	WW	NR	N/A	N/A
H-316	S-AA16	3	UNT / South Fork Tenmile Creek	Per	Temp.	Access Roads ROW	H316 AR 07a	N/A	0.0	0.0	N/A	Minor	5.0	WWF	WW	NR	N/A	N/A
Pratt	S-AA6	0	UNT / South Fork Tenmile Creek	Per	Temp.	Pratt Station	N/A	N/A	0.0	0.0	N/A	Inter-mediate	16.0	WWF	WW	NR	N/A	N/A
Pratt	S-AA7	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Pratt Station	N/A	N/A	0.0	0.0	N/A	Minor	8.0	WWF	WW	NR	N/A	N/A
Redhook	S-AA2	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	ATWS	Redhook ATWS 01	N/A	0.0	0.0	N/A	Minor	4.0	WWF	WW	NR	N/A	N/A
Redhook	S-N2	0	UNT / South Fork Tenmile Creek	Int	Perm.	Redhook Station	N/A	N/A	0.0	0.0	N/A	Minor	2.0	WWF	WW	NR	N/A	N/A
Allegheny																		
H-318	S-BB4	0.04	Bunola Run	Per	Perm.	Groundbed	N/A	N/A	0.1	0.0	N/A	Inter-mediate	25.0	WWF	WW	NR	N/A	N/A
H-318	NHD 99408966	1.0	Kelly Run	Per	Route Ctl	Pipeline Route	N/A	20.0	N/A	N/A	Open-cut dry	Inter-mediate	20.0	WWF	WW	NR	2	3
H-318	NHD 99408966	1.0	Kelly Run	Per	Temp.	Workspace	N/A	N/A	0.0	0.1	N/A	Inter-mediate	20.0	WWF	WW	NR	N/A	N/A
H-318	S-BB4	2.3	Bunola Run	Per	Route Ctl	Pipeline Route	N/A	26.0 l/	N/A	N/A	Open-cut dry	Inter-mediate	25.0	WWF	WW	NR	2	3
H-318	S-BB4	2.3	Bunola Run	Per	Temp.	ATWS	H318 ATWS 05c	N/A	0.0	0.3	N/A	Inter-mediate	25.0	WWF	WW	NR	N/A	N/A
H-318	S-BB4	2.3	Bunola Run	Per	Temp.	ATWS	H318 ATWS 05c	N/A	0.0	0.0	N/A	Inter-mediate	25.0	WWF	WW	NR	N/A	N/A
H-318	S-BB4	2.3	Bunola Run	Per	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Inter-mediate	25.0	WWF	WW	NR	N/A	N/A
H-318	S-BB6	2.3	UNT / Monongahela River	Int	Temp.	ATWS	H318 ATWS 05c	N/A	0.0	0.0	N/A	Minor	10.0	WWF	WW	NR	N/A	N/A

APPENDIX F-2

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID a/	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
Washington																		
H-318	S-BB2	3.3	UNT / Monongahela River	Eph	Route Ctl	Pipeline Route	N/A	1.3 l/	N/A	N/A	Open-cut dry	Minor	1.0	WWF	WW	NR	2	3
H-318	S-BB2	3.3	UNT / Monongahela River	Eph	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	1.0	WWF	WW	NR	N/A	N/A
H-318	S-BB1	3.8	Lobbs Run	Int	Access Ctl	Access Roads	H318 AR 07	0.4	N/A	N/A	N/A	Minor	2.0	WWF	WW	NR	N/A	N/A
H-318	S-BB1	3.8	Lobbs Run	Int	Route Ctl	Pipeline Route	N/A	5.8 l,m/	N/A	N/A	Open-cut dry	Minor	2.0	WWF	WW	NR	2	3
H-318	S-BB1	3.8	Lobbs Run	Int	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Minor	2.0	WWF	WW	NR	N/A	N/A
Allegheny/ Washington																		
H-318	S-BB5	2.5-2.6	Monongahela River g/	Per	Route Ctl	Pipeline Route	N/A	915.0 l/	N/A	N/A	HDD	Major	813.0	WWF	WW	NR	3	60
WEST VIRGINIA																		
Wetzel																		
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Access Ctl	Access Roads	H319 AR 01	15.0	N/A	N/A	N/A	Inter-mediate	15.0	B	WW	April 1-June 30	N/A	N/A
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Route Ctl	Pipeline Route	N/A	15.0	N/A	N/A	Open-cut dry	Inter-mediate	15.0	B	WW	April 1-June 30	3	3
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Temp.	Access Roads ROW	H319 AR 01	N/A	0.0	0.0	N/A	Inter-mediate	15.0	B	WW	April 1-June 30	N/A	N/A
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Temp.	Workspace	N/A	N/A	0.0	0.0	N/A	Inter-mediate	15.0	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	Route Ctl	Lateral Tap	N/A	1.6	N/A	N/A	N/A	Minor	7.0	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	Temp.	Mobley Station	N/A	N/A	N/A	0.0	N/A	Minor	7.0	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	Temp.	ATWS	Mobley ATWS01	N/A	0.0	0.0	N/A	Minor	7.0	B	WW	April 1-June 30	N/A	N/A
Mobley	S-Z1	0	UNT / Mobley Run	Per	Perm.	Mobley Station	N/A	N/A	0.0	0.0	N/A	Inter-mediate	12.0	B	WW	April 1-June 30	N/A	N/A
Webster	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Temp.	ATWS	Webster ATWS 01	N/A	0.0	0.1	N/A	Inter-mediate	15.0	B	WW	April 1-June 30	N/A	N/A
Webster	S-A3A	0.04	UNT / North Fork Fishing Creek	Int	Temp.	Access Roads ROW	Webster AR 03	N/A	0.0	0.0	N/A	Minor	8.0	B	WW	April 1-June 30	N/A	N/A
Webster	S-A3A	0.04	UNT / North Fork Fishing Creek	Int	Temp.	ATWS	Webster ATWS 01	N/A	0.0	0.0	N/A	Minor	8.0	B	WW	April 1-June 30	N/A	N/A

Notes:
UNT – Unnamed Tributary, N/A - Not Applicable

a/ All waterbody IDs beginning with "S" are surveyed waterbodies. All waterbodies beginning with "NHD" are from the National Hydrography Dataset (USGS 2015) for areas not yet surveyed.

b/ From Federal Register / Vol. 80, No. 124 / Monday, June 29, 2015 / Rules
Eph streams (rain-dependent streams) have flowing water only in response to precipitation events in a typical year, and are always above the water table.
Int streams (seasonal streams) are those that have both precipitation and groundwater providing part of the stream's flow, and flow continuously only during certain times of the year (e.g., during certain seasons such as the rainy season).
Per streams are those that flow continuously all year.

c/ Pennsylvania Protected and State Water Uses: (Source: 25 Pa. Code 93)
WWF = Warm Water Fishes

d/ West Virginia State Water Classifications: (Source: W.Va. Code 47CSR2)

APPENDIX F-2

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID a/	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)

B = Propagation and Maintenance of fish and other aquatic life

e/ Fishery Type: (Source: WVDEP, WWVDNR, and PADEP)
WW = Warmwater

f/ TOYR - Time of Year Restriction = Any span of time within time-of-year restrictions set forth by U.S. Army Corps of Engineer's 401 Water Quality Certification for streams crossed in WV and Greene County Conservation District (No date a, b)
NR = No Restriction

g/ River crosses county line

h/ Length of crossing is for linear feature (pipeline or access road) crossing length, which is different than the waterbody width if the crossing is not exactly perpendicular to the waterbody.

i/ The HDD crossing for South Fork Tenmile Creek also crosses the unnamed tributaries in the same bore.

j/ Open-cut dry crossing methods will either be dam and pump or flume.

k/ Waterbody width was measured in the field in the center of the survey area (not exactly at the pipeline crossing) and represents the bank full width (not the water width at the time of the survey).

l/ Pipeline crossing length is greater than top of bank width due to not crossing perpendicular to the waterbody.

m/ Pipeline crossing length is greater than top of bank width due to the pipeline crossing the stream more than once because of the meandering or branched nature of the waterbody.

n/ Route Ctl = Route Centerline; Access Ctl = Access Road Centerline

APPENDIX F-3

Impaired Waterbodies Crossed by the Mountain Valley Project

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APPENDIX F-3

Impaired Waterbodies Crossed by the Mountain Valley Project

State/County	MP	Waterbody Name	Crossing Method	Cause(s) of Impairment	TMDL
West Virginia					
Wetzel	0.6	North Fork Fishing Creek	Open-cut Dry	Fecal Coliform	1.77E+11 counts/day
				Iron	158.27 lbs/day
Wetzel	2.3	Fallen Timber Run	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
				Fecal Coliform	1.57E+10 counts/day
				Iron, sedimentation	10.87 lbs/day
Wetzel	5.0, 5.5	Price Run	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
				Fecal Coliform	5.247E+10 counts/day
				Iron, sedimentation	34.37 lbs/day
Harrison	15.5	Little Tenmile Creek	Open-cut Dry	Benthic macroinvertebrates Bioassessments, cause unknown	TMDL needed
				Iron, mine drainage	27,045 lbs/year
				Manganese, mine drainage	12,034 lbs/year
Harrison	17.8	Little Rockcamp Run	Open-cut Dry	Benthic macroinvertebrates Bioassessments, Iron, Manganese	N/A
				Iron, mine drainage	4,520 lbs/year
				Manganese, mine drainage	3,437 lbs/year
Harrison	18.8	Rockcamp Run	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
				Iron, mine drainage	4,520 lbs/year
				Manganese, mine drainage	3,437 lbs/year
Harrison	26.0	Salem Fork	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
Lewis	31.3	Coburn Fork	Open-cut Dry	Iron, mine drainage	2,287 lbs/year
				Manganese, mine drainage	962 lbs/year
				Aluminum, mine drainage	1,130 lbs/year
				pH, mine drainage	Reducing in-stream metals

APPENDIX F-3 (continued)

Impaired Waterbodies Crossed by the Mountain Valley Project

State/County	MP	Waterbody Name	Crossing Method	Cause(s) of Impairment	TMDL
Lewis	44.8	Fink Creek	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
Lewis	52.4	Cove Lick	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
Lewis	55.2	Sand Fork	Open-cut Dry	Benthic macroinvertebrates Bioassessments, cause unknown	TMDL needed
				Iron, non-point source	35 tons/year
Lewis	58.6, 59.0, 60.1	Indian Fork	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
Lewis	62.3	Oil Creek	Open-cut Dry	Aluminum, sediment	5 tons/year or 0.75 mg/L
Nicholas	113.9, 155.9	Big Beaver Creek	Open-cut Dry	Fecal Coliform, NPS	1.48E+11 counts/day
Nicholas	120.5	Little Laurel Creek	Open-cut Dry	pH, acid deposition	N/A
Nicholas	126.5	Hominy Creek	Open-cut Dry	Iron, Mining and Non-Point sources (upstream of river mile 17.3)	35.8 lbs/day
Greenbrier	140.1, 143.7	Meadow River	Open-cut Dry	Iron, mining	N/A to mainstem
				Fecal Coliform, NPS and agriculture	N/A to mainstem
Greenbrier	146.7	Little Sewell Creek	Open-cut Dry	Iron, sediment, mining and NPS	87.5 lbs/day
				Fecal Coliform, NPS and agriculture	3.79E+10 counts/day
Summers	161.6, 162.6	Lick Creek	Open-cut Dry	Fecal Coliform, organic enrichment	3.48E+12 counts/day
Summers	169.2, 169.7	Hungard Creek	Open-cut Dry	Fecal Coliform, sewage treatment plants, combined sewer overflows and NPS	4.02E+13 counts/day
Summers	170.5	Greenbrier River	Wet Open-cut	Fecal Coliform, sewage treatment plants, combined sewer overflows and NPS	3.13E+15 counts/day
Summers	171.8	Kelly Creek	Open-cut Dry	Fecal Coliform, sewage treatment plants, combined sewer overflows and NPS	1.83E+13 counts/day

APPENDIX F-3 (continued)

Impaired Waterbodies Crossed by the Mountain Valley Project

State/County	MP	Waterbody Name	Crossing Method	Cause(s) of Impairment	TMDL
Monroe	181.9	Indian Creek	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
				Fecal Coliform, Pathogens	2.11E+13 counts/day
				Iron, mine drainage	36,666 lbs/year
				Manganese, mine drainage	40,978 lbs/year
Monroe	186.8	Hans Creek	Open-cut Dry	Fecal Coliform, organic enrichment	1.54E+11 counts/day
Monroe	191.1	Dry Creek	Open-cut Dry	Benthic macroinvertebrates Bioassessments	N/A
				Fecal Coliform, organic enrichment	3.59E+10
				Iron, NPS (streambank erosion)	36 lbs/day
Monroe	193.6	Painter Run	Open-cut Dry	Fecal Coliform, sewage treatment plants, combined sewer overflows and NPS	1.08E+10
Virginia					
Giles	199.4	Stony Creek	Open-cut Dry	Polychlorinated Biphenyls (PCBs) in Fish Tissue	To be developed in 2022
Giles	209.9	Sinking Creek	Open-cut Dry	E. Coli	To be developed in 2026
Montgomery	229.2	Bradshaw Creek	Open-cut Dry	E. Coli	To be developed in 2022
				pH, suspected natural conditions	To be developed in 2022
Montgomery	233.8	Roanoke River	Open-cut Dry	Temperature	Under development
				PCBs	33,277.3 mg/year
Franklin	247.3	North Fork Blackwater River	Open-cut Dry	E. Coli	200 cfu/100 ml.
Franklin	255.7 to 259.9	Teels Creek	Open-cut Dry	Benthic macroinvertebrates bioassessments	Priority Impaired Water for 2016-2022
				E. Coli	200 cfu/100 ml.

APPENDIX F-3 (continued)

Impaired Waterbodies Crossed by the Mountain Valley Project

State/County	MP	Waterbody Name	Crossing Method	Cause(s) of Impairment	TMDL
Franklin	259.8, 260.1, 260.8	Little Creek	Open-cut Dry	Benthic macroinvertebrates bioassessments	Priority Impaired Water for 2016-2022
				E. Coli	200 cfu/100 ml.
Franklin	266.5	Maggodee Creek	Open-cut Dry	Benthic macroinvertebrates bioassessments	Priority Impaired Water for 2016-2022
				E. Coli	200 cfu/100 ml.
Franklin	262.8, 266.9	Blackwater River	Open-cut Dry	Benthic macroinvertebrates bioassessments	To be developed in 2020
				E. Coli	To be developed in 2020
				Mercury in Fish Tissue	To be developed in 2020
				PCBs in Fish Tissue	To be developed in 2014- no further data available
Franklin	269.5	Foul Ground Creek	Open-cut Dry	Fecal Coliform	To be developed in 2016
Pittsylvania	286.3	Pigg River	Open-cut Dry	E. Coli	4.09E+10 cfu/yr.
Pittsylvania	287.1, 287.7, 289.2	Harpen Creek	Open-cut Dry	E. Coli	To be developed in 2018
Pittsylvania	297.3	Little Cherrystone Creek	Open-cut Dry	Fecal Coliform	To be developed in 2016

N/A = not applicable; TMDLs are not developed for this impairment.
TMDL = Total Maximum Daily Load
Source: EPA, 2014; WVDEP, 2012; VDEQ, 2012
Notes: The EEP would not cross any impaired waterbodies.

APPENDIX F-4

Waterbodies Crossed by the Mountain Valley Project in Karst Areas

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APPENDIX F-4

Waterbodies Crossed by the Mountain Valley Project in Karst Areas

State/County	MP(s)	Waterbody Name	Flow Type(s)
West Virginia			
Summers	171.0, 171.1, 171.3	UNT/Greenbrier River	Ephemeral
Summers	171.6, 171.7	UNT/Kelly Creek	Ephemeral
Summers	171.8	Kelly Creek	Perennial
Summers	172.3, 173.0	UNT/ Kelly Creek	Ephemeral
Summers	173.3	UNT/ Wind Creek	Ephemeral
Monroe	190.0	Blue Lick Creek	Perennial
Monroe	190.1, 190.2	UNT/Hans Creek	Ephemeral
Monroe	190.7, 191.1	UNT/Dry Creek	Ephemeral
Monroe	191.1	Dry Creek	Perennial
Monroe	193.6, 193.7, 194.2	UNT/Painter Run	Intermittent
Monroe	193.6	Painter Run	Perennial
Virginia			
Giles	195.8, 198.0, 198.1	Kimballton Branch	Intermittent, Perennial
Giles	195.8, 198.0	UNT/Kimballton Branch	Ephemeral, Perennial
Giles	196.9, 198.5	Curve Branch	Intermittent
Giles	196.9	UNT/Curve Branch	Intermittent
Giles	196.9, 197.4, 197.5, 199.1	UNT/Stony Creek	Ephemeral, Intermittent, Perennial
Giles	198.8, 198.9	UNT/Clendennin Creek	Perennial
Giles	199.4	Stony Creek	Perennial
Giles	203.4	Little Stony Creek	Perennial
Giles	201.0, 201.3, 201.4, 201.7	UNT/Dry Branch	Ephemeral, Intermittent, Perennial
Giles	202.5, 202.7, 202.8, 203.0, 203.3, 203.5	UNT/Little Stony Creek	Ephemeral, Intermittent, Perennial
Giles	203.3, 203.4	Little Stony Creek	Perennial
Giles	204.0, 204.2, 204.3, 204.8, 205.6	UNT/Doe Creek	Ephemeral, Perennial
Giles	205.6	Doe Creek	Perennial
Giles	206.1, 206.3, 206.5 – 206.8, 207.2 – 207.4, 208.3, 212.4, 213.0, 213.3, 213.5, 213.6, 215.2, 215.3	UNT/Sinking Creek	Ephemeral, Intermittent, Perennial
Giles	209.0, 209.9	Sinking Creek	Ephemeral
Giles	211.7	Greenbrier Branch	Perennial

APPENDIX F-4 (continued)

Waterbodies Crossed by the Mountain Valley Project in Karst Areas

State/County	MP(s)	Waterbody Name	Flow Type(s)
Giles	211.7	UNT/Greenbrier Branch	Intermittent
Craig	216.0, 216.3 – 216.5	UNT/Sinking Creek	Intermittent, Perennial
Montgomery	217.4, 217.8, 218.3, 218.6	UNT/Craig Creek	Ephemeral, Intermittent, Perennial
Montgomery	218.2, 218.36, 218.6	Craig Creek	Perennial
Montgomery	220.0, 220.7, 220.8, 226.2, 223.2, 225.0, 225.9, 226.0, 226.2, 226.3, 232.5 , 232.6	UNT/North Fork Roanoke River	Ephemeral, Intermittent, Perennial
Montgomery	223.9, 224.0	Mill Creek	Perennial
Montgomery	224.0	Skelt Run	Perennial
Montgomery	223.9	UNT/Mill Creek	Intermittent
Montgomery	225.8, 230.1	North Fork Roanoke River	Perennial
Montgomery	227.1, 227.2, 227.5, 227.6, 227.7, 227.9 - 228.2	UNT/Flatwoods Branch	Ephemeral, Intermittent, Perennial
Montgomery	228.1	Flatwoods Branch	Ephemeral, Perennial
Montgomery	228.6 - 228.8, 229.4, 229.6	UNT/Bradshaw Creek	Ephemeral, Intermittent
Montgomery	229.2, 229.6	Bradshaw Creek	Perennial
Montgomery	232.7, 232.8, 234.0, 234.3, 236.1	UNT/Roanoke River	Ephemeral, Intermittent. Perennial
Montgomery	233.8	Roanoke River	Perennial
Montgomery	234.7, 235.5, 235.7	UNT/Cove Hollow	Ephemeral, Intermittent
Montgomery	237.7	UNT/Dry Hollow	Intermittent

UNT - Unnamed tributary

Note: No waterbodies in karst areas would be crossed by the EEP.

APPENDIX F-5

Fisheries of Special Concern Crossed by the Mountain Valley Project

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APPENDIX F-5

Fisheries of Special Concern Crossed by the Mountain Valley Project

Facility	Waterbody	MP	County	Fishery Type/ Issue a/	Species b/	Crossing Method	Restricted In-stream Construction Window c/
Pipeline	North Fork Fishing Creek	0.7	Wetzel, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Rockcamp Run	18.8	Harrison, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Salem Fork	26.0	Harrison, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Right Fork Freemans Creek	42.7	Lewis, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Fink Creek	44.8	Lewis, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Leading Creek	48.1	Lewis, WV	WW, M, TE	Snuffbox; clubshell	Open-Cut Dry	April 1 – June 30
Pipeline	Sand Fork	55.2	Lewis, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Knawl Creek	68.8	Braxton, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Little Kanawha River	75.0	Braxton, WV	WW, M, TE	Snuffbox, clubshell	Open-Cut Dry	April 1 – June 30
Pipeline	Left Fork Holly River	81.7	Webster, WV	CW, B2		Open-Cut Dry	September 15 – March 31
Pipeline	Elk River	87.4	Webster, WV	CW, M, TE	Clubshell	Wet Open-Cut	September 15 – March 31
Pipeline	Laurel Creek	98.9	Webster, WV	CW, M		Open-Cut Dry	September 15 – March 31
Pipeline	Gauley River	118.6	Nicholas, WV	WW, M		Wet Open-Cut	April 1 – June 30
Pipeline	Hominy Creek	126.5	Nicholas, WV	CW, B2, M		Open-Cut Dry	September 15 – March 31
Pipeline	UNT to Hominy Creek	128.0	Nicholas, WV	CW, B2		Open-Cut Dry	September 15 – March 31
Pipeline	UNT to Hominy Creek	131.2	Nicholas, WV	CW, B2		Open-Cut Dry	September 15 – March 31
Pipeline	UNT to Hominy Creek	131.4	Nicholas, WV	CW, B2		Open-Cut Dry	September 15 – March 31
Pipeline	UNT to Hominy Creek	132.0	Nicholas, WV	CW, B2		Open-Cut Dry	September 15 – March 31

APPENDIX F-5 (continued)

Fisheries of Special Concern Crossed by the Mountain Valley Project

Facility	Waterbody	MP	County	Fishery Type/ Issue a/	Species b/	Crossing Method	Restricted In-stream Construction Window c/
Pipeline	Meadow Creek	140.1	Greenbrier, WV	CW, B2		Open-Cut Dry	September 15 – March 31
Pipeline	Meadow River	143.7	Greenbrier, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Greenbrier River	170.6	Summers, WV	WW, M		Open-Cut Dry	April 1 – June 30
Pipeline	Indian Creek	181.9	Monroe, WV	WW, M		Open-Cut Dry	April 1 – June 30
Access Road	Kimballton Branch	195.8	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Kimballton Branch	198.0	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Stony Creek	199.4	Giles, VA	CW, WT, M ST, TE	Green floater, Candy darter, pistolgrip	Open-Cut Dry	August 15 – July 31
Pipeline	UNT to Little Stony Creek	202.5	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Little Stony Creek	202.8	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Little Stony Creek	203.3	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Little Stony Creek	203.3	Giles, VA	CW, WT, ST		Open-Cut Dry	October 1 – June 30
Pipeline	Little Stony Creek	203.4	Giles, VA	CW, WT, ST		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	206.7	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	206.7	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Access Road	UNT to Sinking Creek	206.8	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	207.3	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Sinking Creek	209.9	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Greenbrier Branch	211.7	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30

APPENDIX F-5 (continued)

Fisheries of Special Concern Crossed by the Mountain Valley Project

Facility	Waterbody	MP	County	Fishery Type/ Issue a/	Species b/	Crossing Method	Restricted In-stream Construction Window c/
Access Road	UNT to Sinking Creek	213.6	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	215.2	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	215.3	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	215.2	Giles, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	UNT to Sinking Creek	216.3	Craig, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Craig Creek	218.6	Montgomery, VA	CW, M, TE	James spinymussel, Atlantic pigtoe, orangefin madtom	Open-Cut Dry	March 1 – July 31
Pipeline	Mill Creek	224.0	Montgomery, VA	CW, M, WT	Yellow lampmussel	Open-Cut Dry	August 15 – September 30
Pipeline	North Fork Roanoke River	225.8	Montgomery, VA	CW, TE, WT	Roanoke logperch	Open-Cut Dry	October 1 – June 30
Access Road	North Fork Roanoke River	225.8	Montgomery, VA	CW, TE, WT	Roanoke logperch	Open-Cut Dry	October 1 – June 30
Pipeline	Roanoke River	233.8	Montgomery, VA	WW, TE	Roanoke logperch, Orangefin madtom	Open-Cut Dry	March 15 – July 15
Pipeline	Bottom Creek	240.4	Roanoke, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Mill Creek	242.9	Roanoke, VA	CW, WT, TE,	Orangefin madtom	Open-Cut Dry	October 1 – June 30
Pipeline	North Fork Blackwater River	247.3	Franklin, VA	CW, WT		Open-Cut Dry	October 1 – June 30
Pipeline	Pigg River	286.3	Franklin, VA	CW, TE	Roanoke logperch, Yellow lampmussel	Open-Cut Dry	March 1 – June 30; August 15 – September 30

APPENDIX F-5 (continued)

Fisheries of Special Concern Crossed by the Mountain Valley Project

Facility	Waterbody	MP	County	Fishery Type/ Issue a/	Species b/	Crossing Method	Restricted In-stream Construction Window c/

Note: MP listed for access roads is nearest pipeline MP.

a/ M = Mussel Stream
B2 = Trout Waters (WV only)
CW = Coldwater Stream; in-stream construction restriction from Sept. 15 – March 31 in WV and March 1 – June 30 in VA
WW = Warmwater Stream; in-stream construction restriction from April 1 – June 30 in WV and April 15 – July 15 in VA
TE = Threatened and Endangered Species Stream
WT = Wild Trout Stream (VA only); in-stream construction restriction from October 1 – March 31
ST = Stocked Trout Steam (VA only); in-stream construction restriction from March 15 –May 15

b/ Atlantic pigtoe mussel; VDGIF in-stream construction restriction from May 15 – July 31
Green floater mussel; VDGIF in-stream construction restriction from April 15 – June 15 and August 15 – September 30
James spinymussel; VDGIF in-stream construction restriction from May 15 – July 31
Orangefin madtom; VDGIF in-stream construction restriction from March 15 – May 31
Roanoke logperch; VDGIF in-stream construction restriction from March 15 – June 30
Yellow lampmussel; VDGIF in-stream construction restriction from April 15 – June 15 and August 15 – September 30

c/ Restricted In-stream Construction Windows = Any span of time within time-of-year restrictions set forth by COE's 401 Water Quality Certification for streams crossed in WV and by the VDGIF time-of-year restrictions for warmwater streams, coldwater streams, or streams containing rare, threatened, or endangered species in VA.

Sources: Clayton et al., 2015; VDCR, 2015; VDGIF, 2015a

APPENDIX F-6

Major Waterbody Crossing Plans

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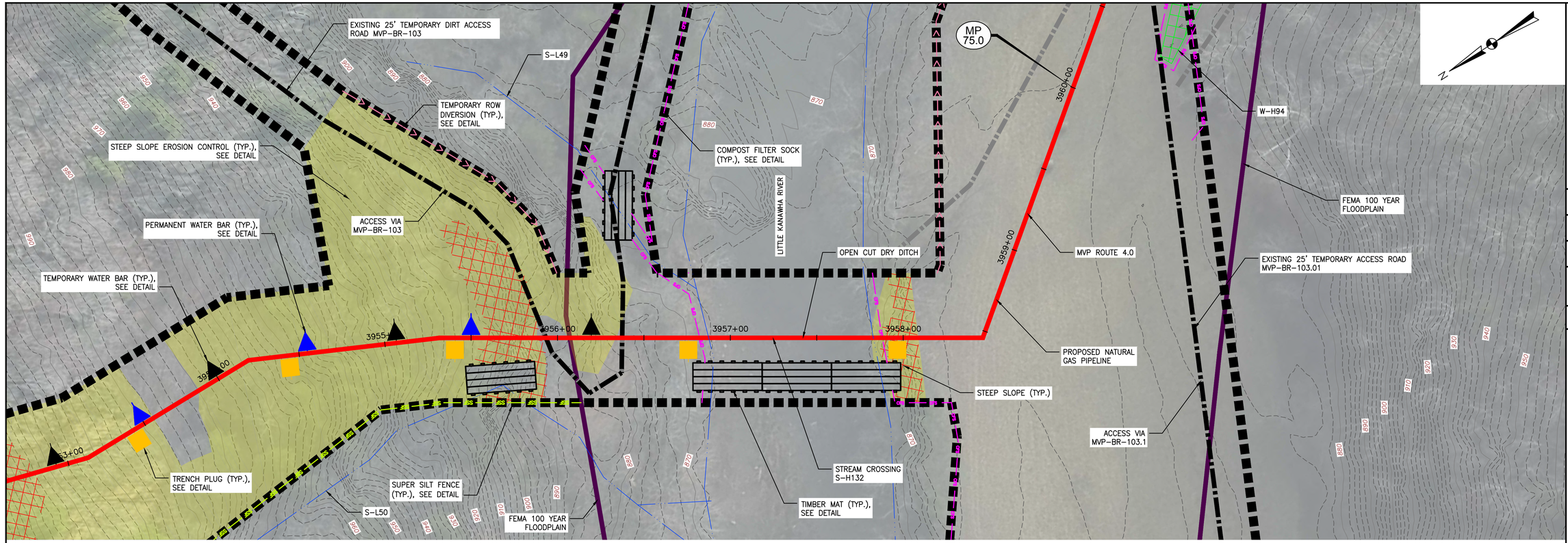
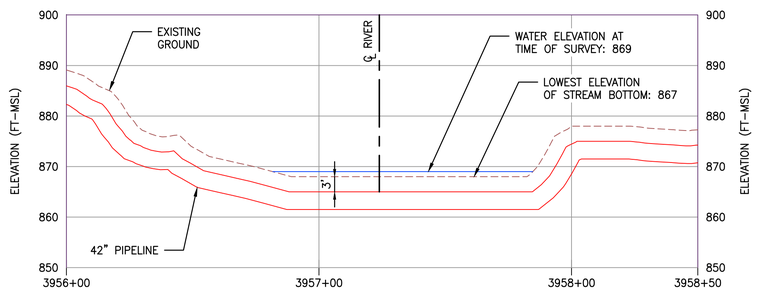


PLAN

SCALE: 1" = 30'

30 0 30 60



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 30'

30 0 30 60

VERTICAL SCALE:

SCALE: 1" = 15'

15 0 15 30

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — SF — PROPOSED SILT FENCE (SEE NOTE 6)
- SSF — SSF — PROPOSED SUPER SILT FENCE
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- CFS — PROPOSED COMPOST FILTER SOCK
- PROPOSED TEMPORARY RIGHT OF WAY DIVERSION AND OUTLET
- PROPOSED CULVERT WITH OUTLET PROTECTION
- TIMBER MAT
- STEEP SLOPE EROSION CONTROL (SEE NOTE 3)
- STEEP SLOPE (SEE NOTE 5)
- PROPOSED PERMANENT WATER BAR
- PROPOSED TEMPORARY WATER BAR
- PROPOSED TRENCH PLUG
- PROPOSED ROCK CONSTRUCTION ENTRANCE

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

Mountain Valley PIPELINE

LITTLE KANAWHA RIVER SITE PLAN

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

BRAXTON COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

DRAWN BY:	MJP
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	4/13/2016
SCALE:	AS SHOWN
SHT. NO.	17.01 OF 17.07

REVISION

January 18, 2017

Mountain Valley Pipeline: Proposed River Crossing Methods

The following information is a summary of Mountain Valley Pipeline's (MVP) proposed crossing methods for the Elk, Gauley, Greenbrier, and Meadow Rivers in West Virginia. The goal of this document is to provide further insight on MVP's crossing methodology, while also providing resource protection to the rivers within this project area.

MVP had originally explored the option of crossing these rivers using a wet, open-cut technique which would allow the water to flow over the active construction site while the trench was being excavated. Under this scenario, downstream best management practices (BMPs), such as turbidity curtains, would be utilized to protect and reduce sediment migration. However, after further analysis, MVP has determined that a dry-ditch technique is a more viable option and will reduce the potential for downstream sedimentation and turbidity by creating a dry working site. Typically, the dry-ditch technique uses a sandbag or jersey barrier cofferedam to create a dry workable area. The dry-ditch technique establishes a controlled, dry working site, while also maintaining sediment free water-flow downstream of the work area by using a pump around technique, fluming, or direct diversion method. However, because of the topography, crossing size, and hydrology of these four rivers, the standard sandbag/jersey barrier cofferdam approach would not provide a safe, reliable work area and could potentially increase downstream impacts.

As an alternative to the cofferdam approach, MVP intends to use a Portadam structure (or equivalent structured system) that creates a dry-ditch work site for these stream crossings. The Portadam is an engineered, segmental or linked system that creates a dry workable area while minimizing instream and downstream impacts. When compared to open-cut/wet ditch or sandbag coffer dam techniques, the dry ditch/Portadam technique offers better environmental protection for the following reasons:

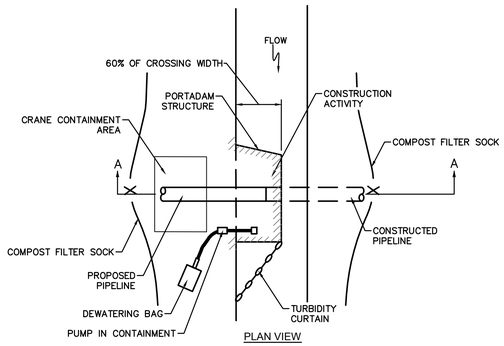
- The structure creates a more reliable, controlled, dry workable area;
- Downstream sedimentation is reduced by constructing inside a dry workable area, which keeps the trench spoils contained and provides better control over trenching depth;
- Potential impacts to aquatic life are reduced by conducting earth disturbance within a controlled structure, maintaining upstream and downstream connectivity, and removing instream construction activities;
- The structure maintains water flow during construction; and
- The Portadam also allows for continued recreational uses during the construction process.

In addition to the E&S BMPs that will be onsite during construction, a site specific spill response plan will be developed and an Aid to Navigation (ATON) will be prepared to provide public information on construction, instream activities, and any potential user restrictions during construction. The installation process will include installing approximately one half of the crossing, completing required stream restoration in that area and then switching to the other side of the project to install the system and complete the project accordingly.

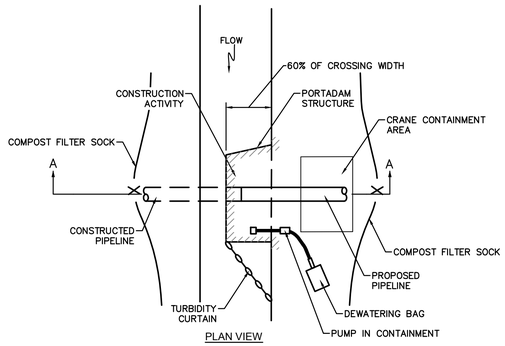
The following provides a summary of the proposed dry-ditch crossing methodology that MVP proposes for the Elk, Greenbrier, Gauley and Meadow Rivers:

- All material, including spill kits, E&S BMPs (such as turbidity curtains, timber mats, compost filter socks, belted silt fences, etc.), pipes, water pumps, secondary containment units, and fittings shall be placed on site before starting the installation;
- All fueling equipment will be parked or located at least 100' from the waterbody; signs will be installed stating that fueling must occur at least 100' from the waterbody;
- All topsoil shall be removed on both sides of the crossing and all work areas as necessary. Topsoil shall be stockpiled inside the approved Limits of Disturbance (LOD) and protected by E&S BMPs identified in the approved Erosion and Sediment Control Plan (ESCP);
- Equipment mats shall be installed as necessary where all equipment will be used;
- E&S controls shall be installed in all work areas of the crossing according to approved ESCP;
- All necessary containment shall be installed for ancillary equipment that is necessary for the river crossing. This includes full containment of cranes and pumps (including backup pumps). The containment is necessary to properly operate and fuel equipment that is positioned next to the river for the duration of the crossing. This practice will be duplicated on both sides of the crossing;
- Silt booms/turbidity curtains shall be installed downstream of the proposed Portadam location. The silt boom/turbidity curtain will be attached to the Portadam corner and the working side shoreline. All pumped out water will be discharged on the inside of this curtain structure through a filtration device (sediment bag) of required micron. Filtering through a sediment bag and then the turbidity curtain will help reduce the potential for downstream sedimentation by creating a dual filtration procedure;
- As necessary, the cofferdam location will be cleared of all large rocks, boulders, or other debris that would interfere with the Portadam footprint. These objects will be moved to the inside of the structure where they can be managed after pump down. The stockpiled material will be placed inside the Portadam in areas conducive to ensure that necessary work is unobstructed;
- The Portadam structure will be installed, starting on the upstream side and then working towards the center of the river;
- The structure shall be extended to a point in the river to create a safe area of overlap when the opposite side is installed;
- The A-frame supports are anchored by a U-bolt fastener. The fastener is installed by hand or pneumatic hammer;
- The center section shall be installed parallel to stream flow;
- The downstream section that connects to the stream bank will then be installed;
- The flow will be maintained in the river section outside of the Portadam during this process;
- A waterproof membrane shall be installed over the Portadam and anchored with sandbags to ensure a watertight seal;
- The working side of the Portadam will be dewatered by a floating dewatering structure. It will be dewatered into the silt boom/turbidity curtain area on the surface through the sediment filter bag to prevent impacts from occurring;

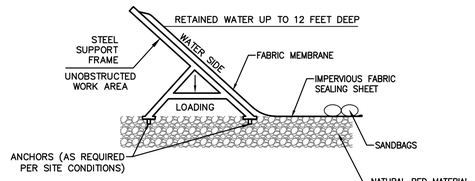
- A perimeter trench on the inside of the Portadam will then be installed to maintain dry conditions. A pump in a containment unit will be used for the entire construction sequence;
- Equipment mats shall be installed over and adjacent to the ditch line for operating equipment;
- The next step is to string pipe (i.e. place pipe segments) in preparation of welding and installation;
- The pipe will then be welded and welding inspections performed to prepare for installation;
- Ditch/rock shall be excavated and material inside the Portadam will be stockpiled in areas to ensure that the work area is unobstructed;
- The pipe shall be installed. The pipe trench, and perimeter trench will then be backfilled inside of the Portadam;
- The Portadam structure is then removed and large rocks and boulders are returned to their approximate original location;
- The above installation sequence will then be conducted on the opposite side of the stream to complete the project (the process will be similar, except the final tie-in will be in a shored, excavated trench at the midpoint of the river); and
- When the project is completed, all mats will be removed, topsoil replaced and the area will be restored to pre-construction condition.



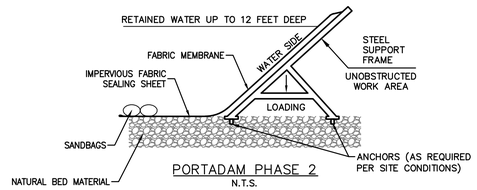
PLAN VIEW



PLAN VIEW



PORTADAM PHASE 1
N.T.S.



PORTADAM PHASE 2
N.T.S.

PORTADAM DETAIL
N.T.S.

NOTES:

- ALL MATERIAL, INCLUDING SPILL KITS, E&S BMPS (SUCH AS TURBIDITY CURTAINS, TIMBER MATS, COMPOST FILTER SOCKS, BELTED SILT FENCES, ETC.), PIPES, WATER PUMPS, SECONDARY CONTAINMENT UNITS, AND FITTINGS SHALL BE PLACED ON SITE BEFORE STARTING THE INSTALLATION;
- ALL FUELING EQUIPMENT WILL BE PARKED OR LOCATED AT LEAST 100' FROM THE WATERBODY; SIGNS WILL BE INSTALLED STATING THAT FUELING MUST OCCUR AT LEAST 100' FROM THE WATERBODY;
- ALL TOPSOIL SHALL BE REMOVED ON BOTH SIDES OF THE CROSSING AND ALL WORK AREAS AS NECESSARY. TOPSOIL SHALL BE STOCKPILED INSIDE THE APPROVED LIMITS OF DISTURBANCE (LOD) AND PROTECTED BY E&S BMPS IDENTIFIED IN THE APPROVED EROSION AND SEDIMENT CONTROL PLAN (ESCP);
- EQUIPMENT MATS SHALL BE INSTALLED AS NECESSARY WHERE ALL EQUIPMENT WILL BE USED;
- E&S CONTROLS SHALL BE INSTALLED IN ALL WORK AREAS OF THE CROSSING ACCORDING TO APPROVED ESCP;
- ALL NECESSARY CONTAINMENT SHALL BE INSTALLED FOR ANCILLARY EQUIPMENT THAT IS NECESSARY FOR THE RIVER CROSSING. THIS INCLUDES FULL CONTAINMENT OF CRANES AND PUMPS (INCLUDING BACKUP PUMPS). THE CONTAINMENT IS NECESSARY TO PROPERLY OPERATE AND FUEL EQUIPMENT THAT IS POSITIONED NEXT TO THE RIVER FOR THE DURATION OF THE CROSSING. THIS PRACTICE WILL BE DUPLICATED ON BOTH SIDES OF THE CROSSING;
- SILT BOOMS/TURBIDITY CURTAINS SHALL BE INSTALLED DOWNSTREAM OF THE PROPOSED PORTADAM LOCATION. THE SILT BOOM/TURBIDITY CURTAIN WILL BE ATTACHED TO THE PORTADAM CORNER AND THE WORKING SIDE SHORELINE. ALL PUMPED OUT WATER WILL BE DISCHARGED ON THE INSIDE OF THIS CURTAIN STRUCTURE THROUGH A FILTRATION DEVICE (SEDIMENT BAG) OF REQUIRED MICRON. FILTERING THROUGH A SEDIMENT BAG AND THEN THE TURBIDITY CURTAIN WILL HELP REDUCE THE POTENTIAL FOR DOWNSTREAM SEDIMENTATION BY CREATING A DUAL FILTRATION PROCEDURE;
- AS NECESSARY, THE COFFERDAM LOCATION WILL BE CLEARED OF ALL LARGE ROCKS, BOULDERS, OR OTHER DEBRIS THAT WOULD INTERFERE WITH THE PORTADAM FOOTPRINT. THESE OBJECTS WILL BE MOVED TO THE INSIDE OF THE STRUCTURE WHERE THEY CAN BE MANAGED AFTER PUMP DOWN. THE STOCKPILED MATERIAL WILL BE PLACED INSIDE THE PORTADAM IN AREAS CONDUCIVE TO ENSURE THAT NECESSARY WORK IS UNOBSTRUCTED;
- THE PORTADAM STRUCTURE WILL BE INSTALLED, STARTING ON THE UPSTREAM SIDE AND THEN WORKING TOWARDS THE CENTER OF THE RIVER;
- THE STRUCTURE SHALL BE EXTENDED TO A POINT IN THE RIVER TO CREATE A SAFE AREA OF OVERLAP WHEN THE OPPOSITE SIDE IS INSTALLED;
- THE A-FRAME SUPPORTS ARE ANCHORED BY A U-BOLT FASTENER. THE FASTENER IS INSTALLED BY HAND OR PNEUMATIC HAMMER;
- THE CENTER SECTION SHALL BE INSTALLED PARALLEL TO STREAM FLOW;
- THE DOWNSTREAM SECTION THAT CONNECTS TO THE STREAM BANK WILL THEN BE INSTALLED;
- THE FLOW WILL BE MAINTAINED IN THE RIVER SECTION OUTSIDE OF THE PORTADAM DURING THIS PROCESS;
- A WATERPROOF MEMBRANE SHALL BE INSTALLED OVER THE PORTADAM AND ANCHORED WITH SANDBAGS TO ENSURE A WATERTIGHT SEAL;
- THE WORKING SIDE OF THE PORTADAM WILL BE DEWATERED BY A FLOATING DEWATERING STRUCTURE. IT WILL BE DEWATERED INTO THE SILT BOOM/TURBIDITY CURTAIN AREA ON THE SURFACE THROUGH THE SEDIMENT FILTER BAG TO PREVENT IMPACTS FROM OCCURRING;
- A PERIMETER TRENCH ON THE INSIDE OF THE PORTADAM WILL THEN BE INSTALLED TO MAINTAIN DRY CONDITIONS. A PUMP IN A CONTAINMENT UNIT WILL BE USED FOR THE ENTIRE CONSTRUCTION SEQUENCE;
- EQUIPMENT MATS SHALL BE INSTALLED OVER AND ADJACENT TO THE DITCH LINE FOR OPERATING EQUIPMENT;
- THE NEXT STEP IS TO STRING PIPE (I.E. PLACE PIPE SEGMENTS) IN PREPARATION OF WELDING AND INSTALLATION;
- THE PIPE WILL THEN BE WELDED AND WELDING INSPECTIONS PERFORMED TO PREPARE FOR INSTALLATION;
- DITCH/ROCK SHALL BE EXCAVATED AND MATERIAL INSIDE THE PORTADAM WILL BE STOCKPILED IN AREAS TO ENSURE THAT THE WORK AREA IS UNOBSTRUCTED;
- THE PIPE SHALL BE INSTALLED. THE PIPE TRENCH, AND PERIMETER TRENCH WILL THEN BE BACKFILLED INSIDE OF THE PORTADAM;
- THE PORTADAM STRUCTURE IS THEN REMOVED AND LARGE ROCKS AND BOULDERS ARE RETURNED TO THEIR APPROXIMATE ORIGINAL LOCATION;
- THE ABOVE INSTALLATION SEQUENCE WILL THEN BE CONDUCTED ON THE OPPOSITE SIDE OF THE STREAM TO COMPLETE THE PROJECT (THE PROCESS WILL BE SIMILAR, EXCEPT THE FINAL TIE-IN WILL BE IN A SHORED, EXCAVATED TRENCH AT THE MIDPOINT OF THE RIVER); AND
- WHEN THE PROJECT IS COMPLETED, ALL MATS WILL BE REMOVED, TOPSOIL REPLACED AND THE AREA WILL BE RESTORED TO PRE-CONSTRUCTION CONDITION.

REFERENCES:

WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, DATED 2006.
WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL, DRAFT DATED 7-28-2010.
WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL, DATED MAY 2012

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL DETAILS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

WETZEL COUNTY THROUGH MONROE COUNTY, WEST VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

CONSTRUCTION PLANS

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	2/19/2016
SCALE:	AS SHOWN
SHT. NO.	0.08A OF 0.21

REVISION

Water Resources

5. Regarding the crossings of the Greenbrier, Elk and Gauley Rivers and in response to a comment (accession number 20170228-5216) in particular, provide the following:

    a. A justification for the non-perpendicular pipeline crossing design proposed for the Greenbrier River at MP 171.6, which appears to require about 130 feet more in-water construction than would a perpendicular crossing.

    b. A detailed site-specific description of the dry-ditch cofferdam crossing methods proposed for the Greenbrier, Elk, and Gauley Rivers that includes for each crossing:

        i. the material(s) used to make the cofferdam;

        ii. cofferdam dimensions;

        iii. methods of delivering the cofferdam to the sites;

        iv. location(s) at which the cofferdam would be placed during construction;

        v. cofferdam removal methods;

        vi. potential site-specific impacts on water resources associated with the use of cofferdams (e.g., turbidity, sedimentation).

    c. Pipeline burial depths and scour mitigation strategies that would be used in the case that the field-verified depth-to-bedrock is at or very near the streambed surface (e.g., the streambed is composed of exposed bedrock).

    d. A detailed description of the revetment mats that could be used to mitigate scour impacts that includes:

        i. the materials used to create the mats;

        ii. the areal extent to which the mats would be placed on the streambed and any associated impacts (e.g., loss of habitat, visual effects); and

        iii. the revetment mats' ability to resist damage by flood-level currents.

e. A detailed description of the armor layers that could be used to mitigate scour impacts that includes:

   i. the minimum armor particle size for a 100-year peak discharge event at the proposed Greenbrier River crossing and the feasibility of creating an armor layer that consists of a particle size equal to or greater than the estimated minimum particle size; and

   ii. an armor layer's expected ability to resist displacement/destruction by flood-strength water flows in areas with a generally smooth streambed surface, such as the proposed Greenbrier River crossing.

Response:

a. The non-perpendicular pipeline crossing of the Greenbrier River avoids cultural resources (see Attachment DR5 Water Resources 5a-1 (PRIVILEGED)). On the south side of the Greenbrier River, a perpendicular crossing would have directly impacted the National Register-eligible Wiseman Residence that meets Criterion C as a well-preserved vernacular expression of the Prairie style of architecture dating to the early twentieth century. Additional information regarding the Wiseman Residence can be found in the report entitled *Mountain Valley Pipeline Project Phase I Cultural Resources Survey, Volume IV: Summers and Monroe Counties West Virginia that* was filed with FERC on August 12, 2015. WVDCH concurred with the NRHP-eligibility recommendation for this resource in a letter dated October 6, 2015 that was filed with FERC October 23, 2015. A discussion of archaeological resources is included as Attachment DR5 Water Resources 5a-2 (PRIVILEGED).

b. Descriptions include:

   i. The following is a list of materials that will be used in the cofferdam-Portadam system for each crossing: steel A-frame supports, U-Bolt fastener, Waterproof Membrane, Sandbags, Silt Booms, Turbidity Curtains, Sediment Filter Bags, Equipment Mats, and Water Pumps.

   ii. The dimensions for the proposed Elk River crossing are expected to be as follows: Phase 1: 75 feet wide x 150 feet long. Phase 2: 75 feet wide x 130 feet long.

The dimensions for the proposed Gauley River crossing are expected to be as follows: Phase 1:75 feet wide x 175 feet long. Phase 2: 75 feet wide x 155 feet long.

The dimensions for the proposed Greenbrier River crossing are expected to be as follows: Phase 1:75 feet wide x 220 feet long. Phase 2: 75 feet wide x 200 feet long.

iii. The materials for the proposed cofferdam-Portadam will be transported to site by Portadam, Inc. using traditional hauling methods such as low-boy tractor and trailers, flatbed trucks, and pickup trucks.

iv. See Attachment DR5 Water Resources 5b.

v. The cofferdams will be removed by Portadam by first replacing any boulders that were displaced inside the work area to their approximate location. The location of the boulders will be identified by GPS before they are moved to ensure replacement at the same location. Once the boulders are placed, Portadam will introduce water back into the dry bed inside the dam. At that point, Portadam will begin to remove the waterproof membrane around the entire dam. Finally, the A-frame supports will be removed and the Phase 1 or 2 will be restored.

vi. Project impacts will be temporary and less than if these crossings utilized the open-cut wet method. There will be a minor increase in sedimentation while the structure is anchored to the riverbed during Phase 1 and 2 as well as immediately following restoration of streamflow to the restored channel. Sedimentation will be minimized through use of a pneumatic handheld hammer (operated by a diver team to install the instream anchors (bolts). This will minimize (or eliminate) equipment operation within the active waterbody further reducing potential for sedimentation to occur. Following installation of the support structure, the waterproof membrane will be deployed. Once the Portadam is in operation, water within the work area will be pumped through a sediment filter bag and dewatering structure located in an upland area adjacent to the crossing in a vegetated area. A turbidity curtain will be placed along the waterbody bank adjacent to the dewatering structure to further reduce sedimentation potential.

During dewatering of the workspace, Mountain Valley will relocate (to the extent practicable) aquatic species from the workspace to the naturally flowing portion of the river to minimize impacts to these resources. Following completion of the crossing installation, there will be a temporary increase in sedimentation once the waterproof membrane is removed and flow is returned to the restored work area.

c. As Mountain Valley previously stated in its January 15, 2016 data response to Resource Report 1, Question 11, "Mountain Valley Pipeline will install the pipeline with a minimum of 4 feet of cover for navigable waterbodies and a minimum of 3 feet of cover for non-navigable waterbodies measured from the waterbody bottom to the top of the pipe, except in consolidated rock where a minimum of 2 feet of cover will be required." (emphasis added). Consistent with this prior statement, if field-verified depth-to-bedrock is at or very near the streambed surface for these three navigable waterbodies, then the pipe depth will meet or exceed the minimum burial depth required by PHMSA (49 CFR 192.327). In this circumstance, the required minimum 2 feet of cover would be sufficient to mitigate potential scour, which is limited to the bedrock surface. Therefore, no additional mitigation is required if the pipeline is installed below the bedrock surface.

d. A detailed description of the revetment mats includes:

   i. Revetment mats are created by using a variety of materials. The main components are pre-cast blocks, usually made from concrete. Other materials could include wire cable or ropes (to connect these blocks) as well as geotextiles or geogrids.

   ii. If used, revetment mats would be placed over top the pipe for the distance it is in the streambed. To the extent revetment mats would be used, they would not be wider than the permanent right-of-way, which is 50 feet. may also be placed a continuous distance upstream and downstream of the crossing. Potential loss of habitat and visual effects would not extend beyond the permanent easement.

   iii. Once a site-specific revetment mat has been selected, its properties (weight and geometry of block; angle of the surface on which it rests) are checked against the applied flood conditions (velocity and shear stress). The revetment mat's restraining moments are then

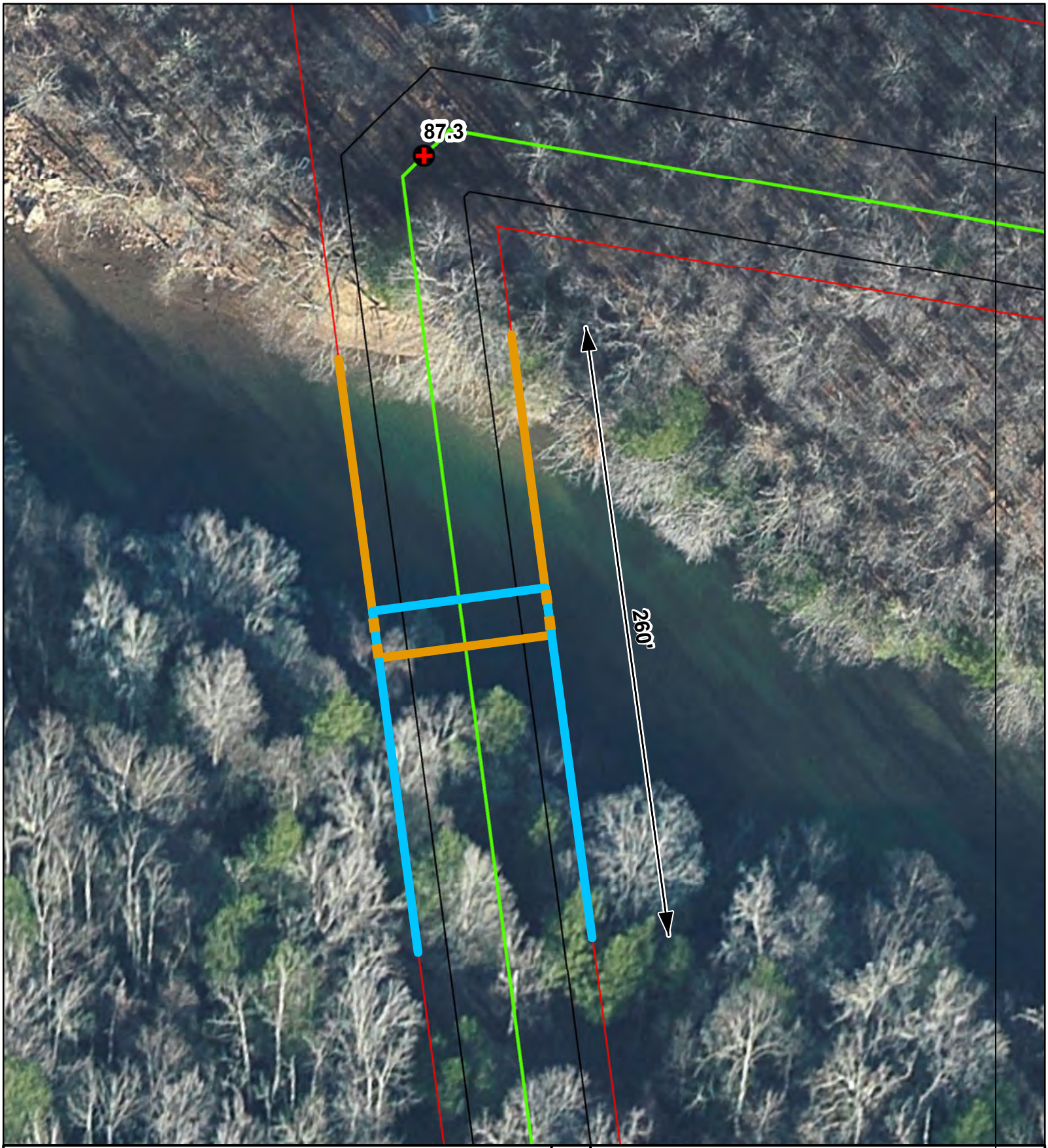
compared to the flood condition's overturning moments. Restraining moments must be greater than the overturning moments by, at least, the engineering standard best practice factor of 1.2 times. This is also considered the safety factor.

e. Regarding the armor layers used to mitigate scour impacts:

i. Utilizing the U.S. Army Corps of Engineers (USACE) Engineering Manual No. 1110-2-1601 (EM-1601) (USACE 1994), the minimum armor particle size is 24-inches for a 100-year peak discharge event at the Greenbrier River crossing. However, in the event that the bedrock at the Greenbrier crossing is close to the surface, an armor layer would not be necessary to prevent scour.

ii. Mountain Valley does not expect to use armor layers where the streambed surface is generally smooth.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: March 30, 2017



Mountain Valley PIPELINE

ELK RIVER COFFERDAM

0 0.01 0.02

Miles

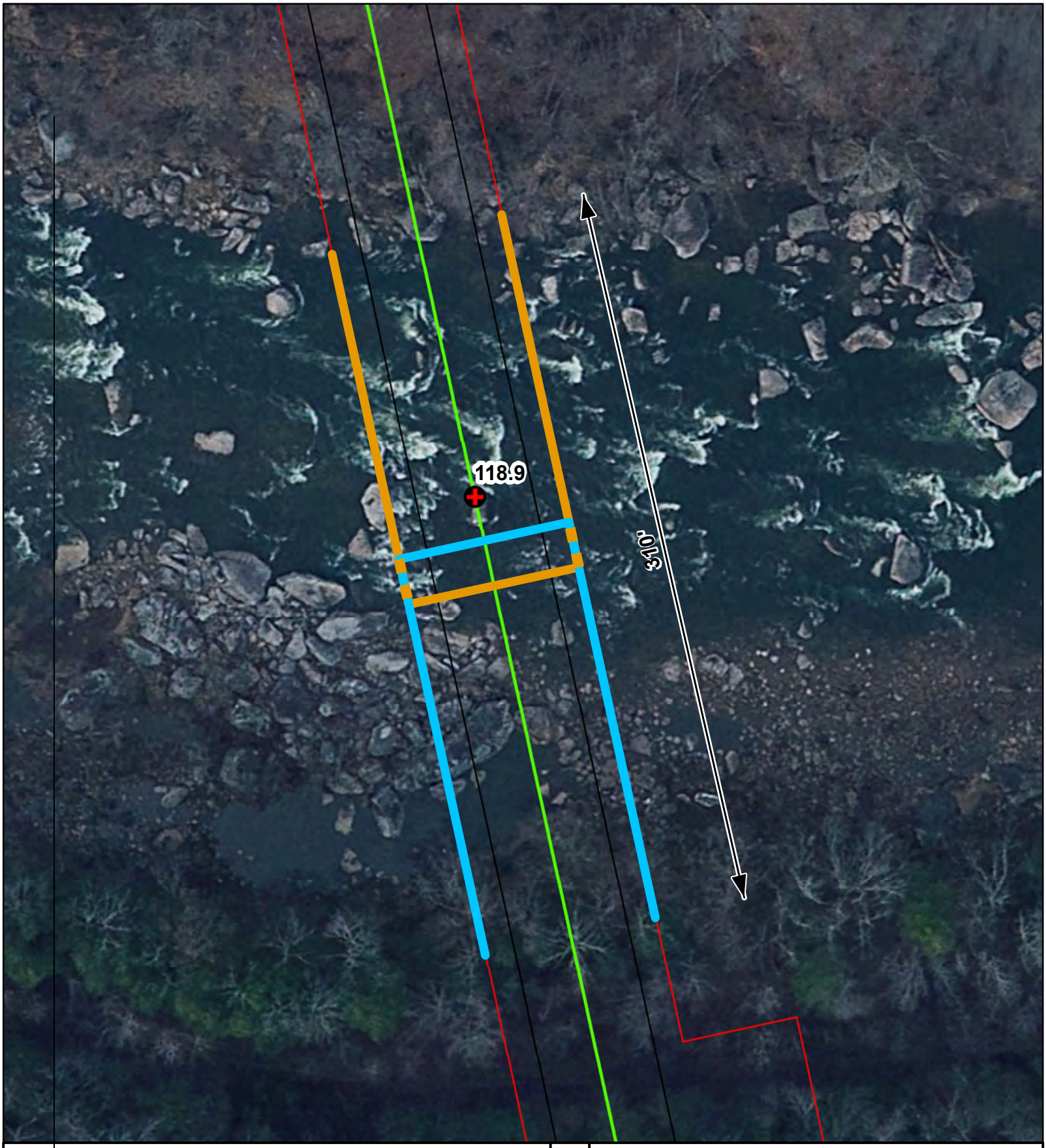
3/23/2017

F6-11

LEGEND

Cofferdam
Phase 1 - 150'
Phase 2 - 130'
Proposed Route
Proposed Route TWS
Proposed Route PE

Appendix F-6



Mountain Valley PIPELINE

GAULEY RIVER COFFERDAM

0 0.01 0.02

Miles

Appendix F-6

F6-12

3/23/2017

N W E S

LEGEND

Cofferdam
Phase 1 - 175'
Phase 2 - 155'
Proposed Route
Proposed Route TWS
Proposed Route PE

Mountain Valley PIPELINE

GREENBRIER RIVER COFFERDAM

0 0.01 0.02

Miles

3/23/2017

F6-13

LEGEND

Cofferdam
Phase 1 - 220'
Phase 2 - 200'
Proposed Route
Proposed Route TWS
Proposed Route PE

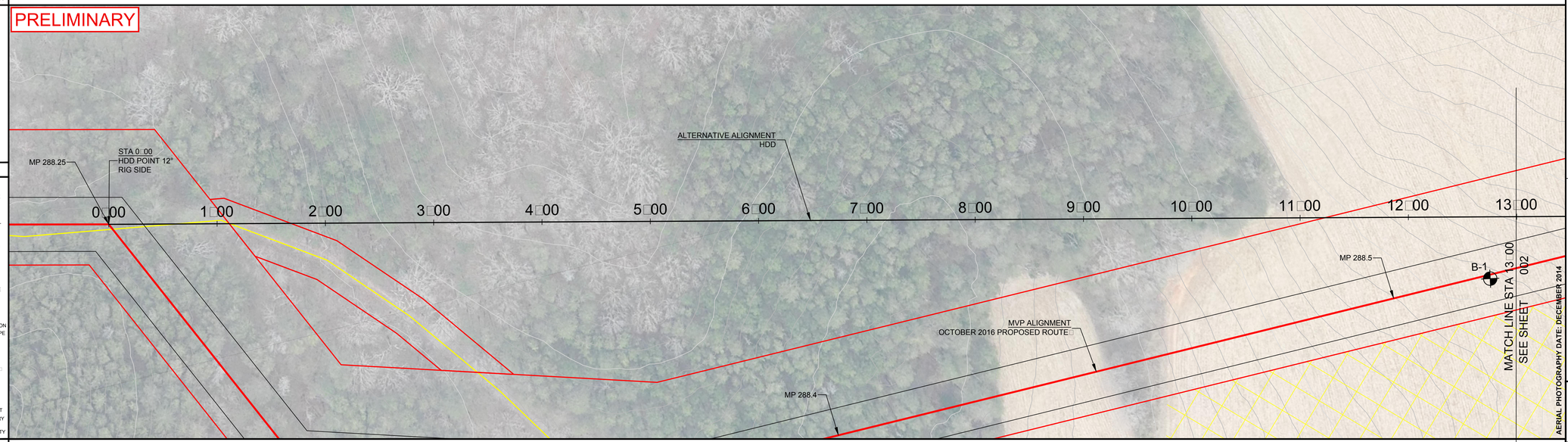
Appendix F-6

RIGHT-OF-WAY □
OWNERSHIP DATA

DESIGN
- PIPE □COATING
- SLOPE DISTANCE
- CLASS LOCATION □HCA

ENVIRONMENTAL
- CONSTRUCTION EXCLUSION
- WETLAND □STREAM
- SEDIMENT BARRIER LEFT
- SEDIMENT BARRIER RIGHT

PRELIMINARY



PLAN VIEW

LEGEND
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500□TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL — PROPOSED TEST STATION
- MAILBOX — LINE MARKER - VENT PIPE
- POWER□TELE POLE
- SIGN — TOWER LEG
- TREE — GUY ANCHOR
- TANK — GAS VALVE
- WELL - GAS□OIL□WATER□MONITORING
- POST - GATE□FENCE
- ELEC GAS WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE□ATWS□
- ABOVE GROUND FACILITY

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

WORK SPACE
- PROPOSED PIPELINE
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE□TWS□
- ADD. TEMPORARY WORK SPACE□ATWS□

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY
1 -
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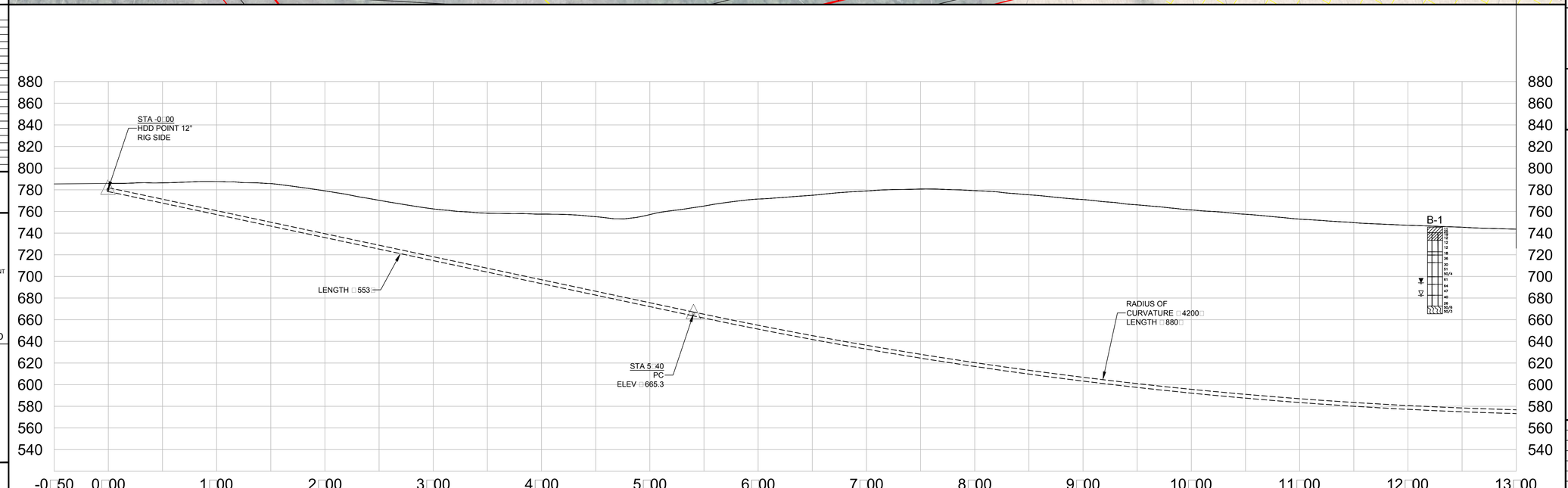
15 -
16 -

PROFILE



PIGG RIVER ALTERNATIVE ALIGNMENT - HDD

REVISIONS

REV.	BY	DATE	DESCRIPTION
-	-	-	-

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	
-	-	-	

APPROVED FOR BIDDING			
REV.	BY	DATE	
-	-	-	

APPROVED FOR FERC			
REV.	BY	DATE	
0	-	-	

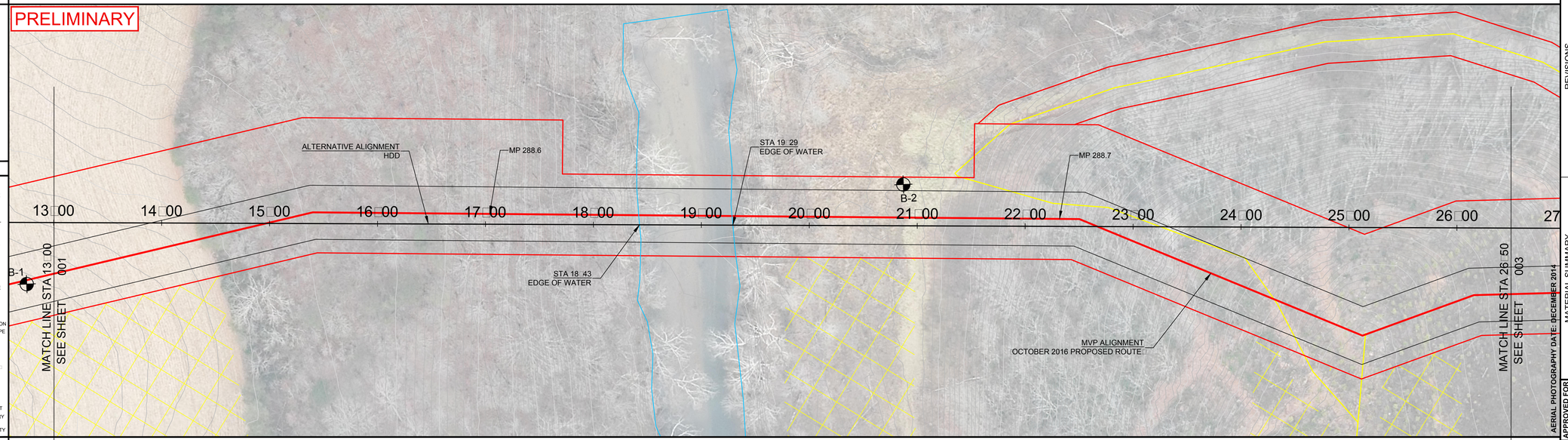
Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
PITTSYLVANIA CO., VA.

HOR.□SCALE: 1" = NTS	
DRAWN BY: HEI DRF□:	9/14/2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O.NO.□:	
HEI PROJECT NO.□: 14-10-052	
DRAWING NO.□: **PA-GIVA-H600**	
SHEET XX OF XX	REV. -
DATE OF PLOT: 10/7/2016 9:05:19 AM	

RIGHT-OF-WAY / OWNERSHIP DATA		
DESIGN	PIPE / COATING	
	SLOPE DISTANCE	
	CLASS LOCATION / HCA	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	
	WETLAND / STREAM	
	SEDIMENT BARRIER LEFT	
	SEDIMENT BARRIER RIGHT	

PRELIMINARY



PLAN VIEW

LEGEND

- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PI SYMBOL
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER-TELE POLE
- SIGN
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS OIL WATER / MONITORING
- POST - GATE FENCE
- ELEC GAS WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE ATWS
- ABOVE GROUND FACILITY

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE TWS
- ADD. TEMPORARY WORK SPACE ATWS

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

1 -
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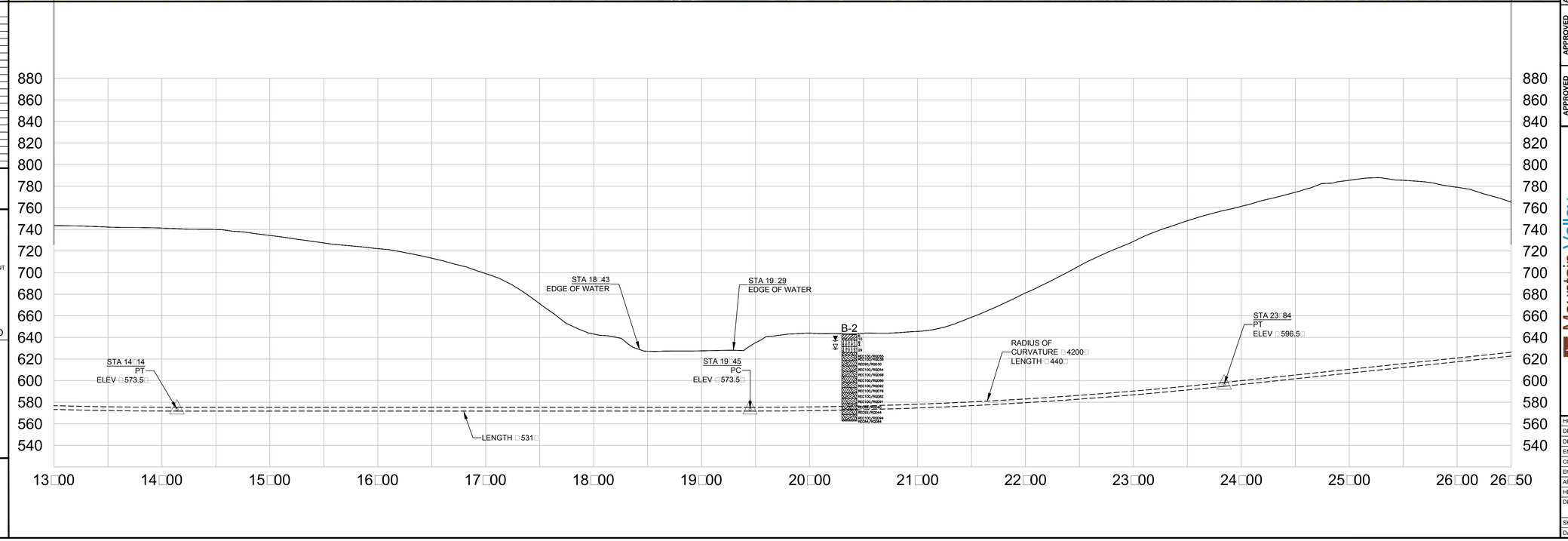
15 -
16 -

PROFILE



PIGG RIVER ALTERNATIVE ALIGNMENT - HDD

REVISIONS

MK. NO.	DESCRIPTION	QTY.	MATERIAL SUMMARY	DESCRIPTION

REV.	BY	DATE

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE

APPROVED FOR BIDDING		
REV.	BY	DATE

APPROVED FOR FERC		
REV.	BY	DATE
0		

Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
PITTSYLVANIA CO., VA.

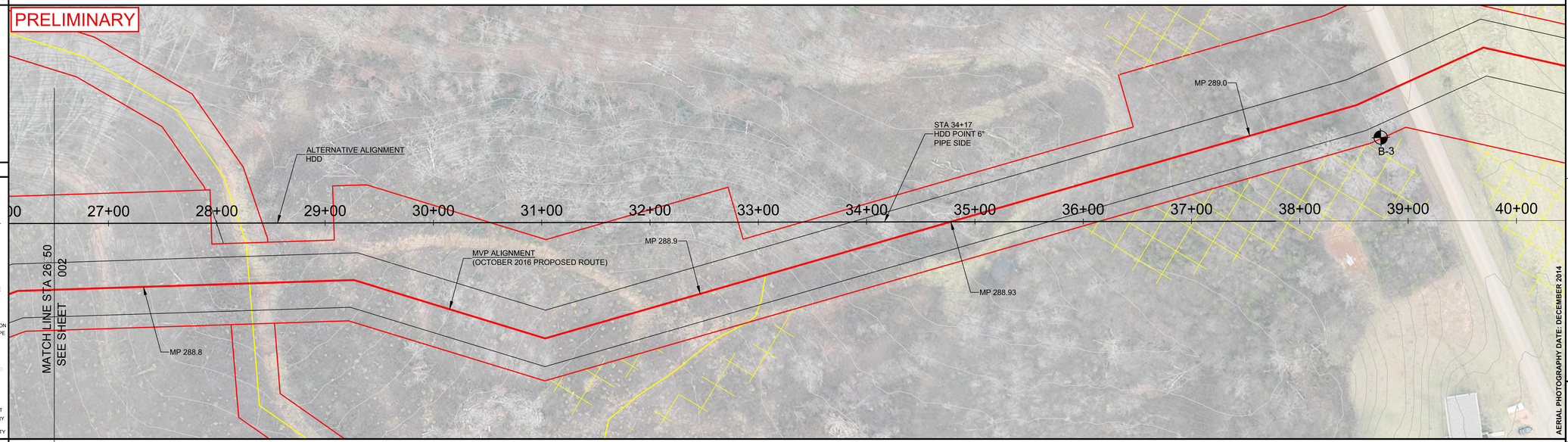
HOR.: SCALE: 1" = NTS	
DRAWN BY: HEI DRF	9.14.2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: **PA-GIVA-H600**	
SHEET XX OF XX	REV.:
DATE OF PLOT: 10.7.2016 9:08:10 AM	

RIGHT-OF-WAY □
OWNERSHIP DATA

DESIGN
- PIPE □COATING
- SLOPE DISTANCE
- CLASS LOCATION □HCA

ENVIRONMENTAL
- CONSTRUCTION EXCLUSION
- WETLAND □STREAM
- SEDIMENT BARRIER LEFT
- SEDIMENT BARRIER RIGHT

PRELIMINARY



PLAN VIEW

LEGEND
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CONSTRUCTION METHOD

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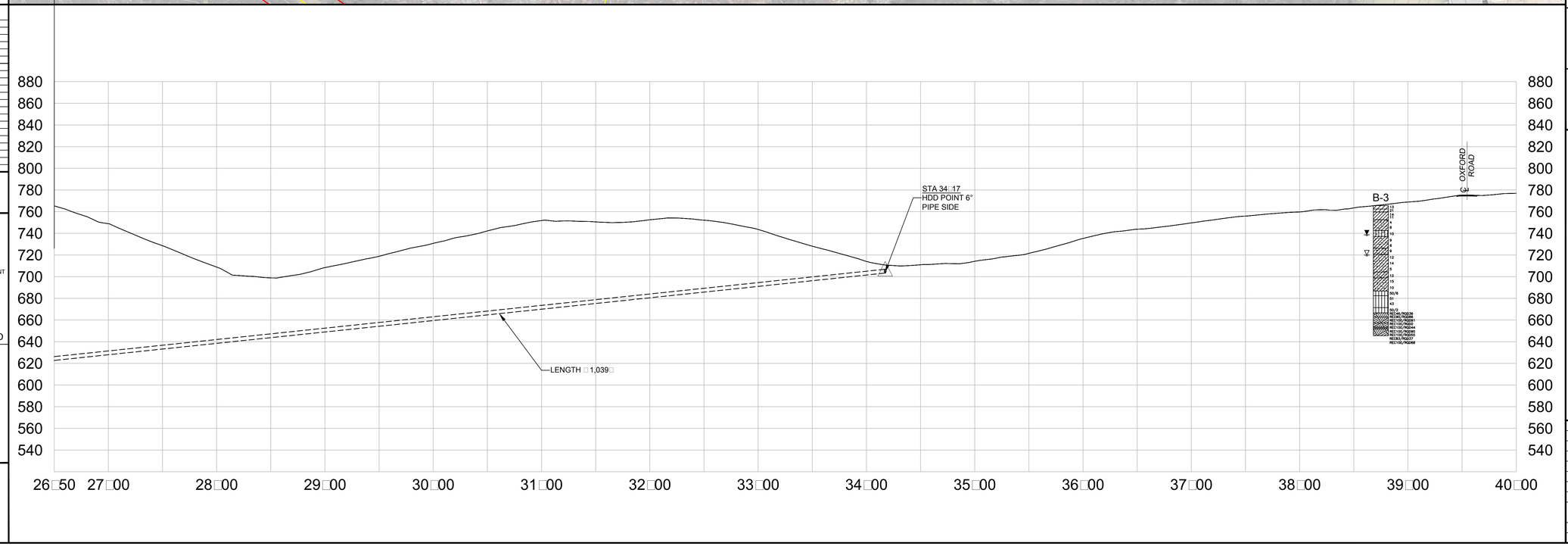

PIGG RIVER ALTERNATIVE ALIGNMENT - HDD

REVISIONS

REV.	BY	DATE	DESCRIPTION
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MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	
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APPROVED FOR BIDDING			
REV.	BY	DATE	
-	-	-	

APPROVED FOR FERC			
REV.	BY	DATE	
0	-	-	

Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
PITTSYLVANIA CO., VA.

HOR□SCALE: 1" = NTS	
DRAWN BY: HEI DRF□	9 14 2016
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: **PA-GIVA-H600**	
SHEET XX OF XX	REV. -
DATE OF PLOT: 10 7 2016 9:10:11 AM	