

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 1 – General Project Description	
REVISED Table 1.2-1	MVP Southgate Project Pipeline Facilities
REVISED Table 1.2-2	MVP Southgate Project Aboveground Facilities
REVISED Table 1.2-3	MVP Southgate Project Mainline Valve Locations
REVISED Table 1.3-1	Land Requirements for the MVP Southgate Project Pipeline/Associated Workspace (Associated Environmental Information Request Question [“EIR No.”] 114)
REVISED Table 1.3-2	Land Requirements for the MVP Southgate Project Aboveground Facilities (Associated EIR No. 115)
REVISED Table 1.3-4	Contractor Yards along the MVP Southgate Project Pipeline (Associated EIR No. 2a., 2b., 2c.)
REVISED Table 1.10-2	Projects with Potential Cumulative Impacts (Associated EIR No. 11, 12)
NEW Table 12-1	Cumulative Impacts Within HUC-10 Watersheds Affected by the Project (Associated EIR No. 12)
NEW Table 12-2	Cumulative Impacts Within HUC-12 Watersheds Affected by the Project (Associated EIR No. 12)
NEW Table 14-1	HUC-10 Waterbodies for the Southgate Project and Other Relevant Projects (Associated EIR No. 14, 15a.)
REVISED Appendix 1-D	Additional Temporary Workspace Areas Associated with Construction of MVP Southgate Project
REVISED Appendix 1-E1	Existing Utility Corridors Adjacent to the MVP Southgate Project
REVISED Appendix 1-E2	Deviations from Existing Corridors Along the MVP Southgate Project
REVISED Appendix 1-F	Proposed New, Improved, and Private Access Roads for the MVP Southgate Project (Associated EIR No. 34)
REVISED Appendix 1-J	Foreign Utility Lines Crossed by the MVP Southgate Project
<u>Attachments:</u>	
Attachment 1-1	Landslide Mitigation Report (Associated EIR No. 1c., 93)

Resource Report 2 – Water Use and Quality	
REVISED Table 2.2-1	Aquifers Crossed by the MVP Southgate Project Pipeline
REVISED Table 2.2-2	Private Wells and Springs within 150 feet of the MVP Southgate Project Construction Workspace (Associated EIR No. 20a., 22.)
REVISED Table 2.3-2	FEMA 100-year Flood Zones crossed by the MVP Southgate Project
REVISED Table 2.3-3	Permanent Impacts within the 100-year Flood Zone

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 2 – Water Use and Quality	
REVISED Table 2.3-4	Summary of Waterbodies Crossed by the Pipeline of the MVP Southgate Project (Associated EIR No. 20)
REVISED Table 2.3-5	Summary of FERC Classification of Waterbody Crossings by the Pipeline of the MVP Southgate Project
REVISED Table 2.3-7	Proposed Hydrostatic Test Water Use Summary
REVISED Table 2.3-8	Estimated Water Usage for the MVP Southgate Project HDDs
REVISED Table 2.3-9	Construction Workspace Parallels Waterbody (or associated Wetland) within 15 feet
REVISED Table 2.3-10	Waterbodies Crossed by the Pipeline in Areas of Shallow Bedrock
REVISED Table 2.3-11	Waterbodies Crossed by the Pipeline in Karst Areas (March 2019)
REVISED Table 2.4-1	Summary of Wetlands Crossed by the MVP Southgate Project (Associated EIR No. 20)
REVISED Appendix 2-A	Waterbodies Crossed by MVP Southgate Project (Associated EIR No. 20, 31)
REVISED Appendix 2-B	Wetlands Crossed by the MVP Southgate Project (Associated EIR No. 20, 35)
REVISED Appendix 2-F	ATWS Within 50 feet of Wetland or Waterbody
REVISED Appendix 2-G	Areas Along the MVP Southgate Project Pipeline not Surveyed for Wetlands and Waterbodies
REVISED Appendix 2-I	North Carolina Wetland and Waters Delineation Report – Addendum 1
<u>Attachments:</u>	
Attachment 20-1	Virginia Wetland and Waters Delineation Report Addendum 1 (Associated EIR No. 20)

Resource Report 3 – Fish, Wildlife, and Vegetation	
REVISED Table 3.3-2	Significant or Sensitive Wildlife Habitats within One Mile of the MVP Southgate Project
REVISED Table 3.4-1	Vegetation Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline (Associated EIR No. 33, 41, 114)
REVISED Table 3.4-2	Acreage of Forest Interior and Forest Edge Affected by Construction and Operation of the MVP Southgate Project
REVISED Table 3.4-3	Significant or Sensitive Vegetation Areas Within One Mile of the MVP Southgate Project
NEW Table 47-1	Land cover and potential breeding habitat of Project-specific Migratory Bird Species (Associated EIR No. 47)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 4 – Cultural Resources	
<u>PUBLIC</u>	
REVISED Table 4.3-1	Federally-Recognized Native American Groups Contacted for the MVP Southgate Project (current as of March 15, 2019)
REVISED Table 4.3-2	Non-federally Recognized Native American Groups Contacted for the MVP Southgate Project (current as of March 15, 2019)
REVISED Table 4.3-3	Other Virginia State and Local Agency Cultural Resources Coordination for the MVP Southgate Project (current as of March 15, 2019)
REVISED Table 4.3-4	Other North Carolina State and Local Agency Cultural Resources Coordination for the MVP Southgate Project (current as of March 15, 2019)
REVISED Table 4.3-5	Potential Cultural Resources Reported in Public Comments (updated March 15, 2019)
REVISED Table 4.5-5	Cultural Resources Survey Status of Pipeline Route (current as of March 15, 2019) (Associated EIR No. 63)
REVISED Table 4.5-6	Cultural Resources Survey Status of Aboveground Facilities (current as of March 15, 2019) (Associated EIR No. 63)
NEW Table 79-1.	Updated Appendix 4-D Table 6.1 - Summary of Cultural Resources Identified during the Project Survey (distances added March 15, 2019) (Associated EIR No. 78d, 79)
NEW Table 79-2.	Updated Appendix 4-E. Table 7.1. - Summary of Archaeological Resources Identified during the Project Survey (distances added March 15, 2019) (Associated EIR No. 78d, 79)
NEW Table 79-3.	Updated Appendix 4-F Table 3.1. - Previously Recorded Architectural Resources within 0.5 Mile of the Project in Pittsylvania County distances added March 15, 2019). (Associated EIR No. 79)
NEW Table 79-4.	Updated Appendix 4-F. Table 6.1. - Architectural Resources Surveyed by Project in Pittsylvania County (distances added March 15, 2019) (Associated EIR No. 79)
NEW Table 79-5.	Updated Appendix 4-G. Table 3.1. - Previously Recorded Historic Properties within One-Half Mile of the Project in Alamance and Rockingham Counties (distances added March 15, 2019) (Associated EIR No. 79)
NEW Table 79-6.	Updated Appendix 4-G Table 7.1. - Historic Architectural Resources Surveyed by the Southgate Project in North Carolina (distances added March 15, 2019) (Associated EIR No. 79)
<u>CUI//PRIIV</u>	
REVISED Table 4.5-1	Previously Recorded Archaeological Resources within 0.5-mile of Project Components in Virginia (updated March 15, 2019) (Associated EIR No. 64, 79)
REVISED Table 4.5-2	Previously Recorded Archaeological Sites within 0.5-mile of Project Components in North Carolina (current as of March 15, 2019) (Associated EIR No. 64, 79)
REVISED Table 4.5-3	Previously Recorded Aboveground Resources within 0.5-mile of Project Components in Virginia (updated March 15, 2019) (Associated EIR No. 64, 79)
REVISED Table 4.5-4	Previously Recorded Aboveground Resources within 0.5-mile of Project Components in North Carolina (current as of March 15, 2019) (Associated EIR No. 64, 70, 79)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 4 – Cultural Resources	
REVISED Table 4.5-7	Archaeological Resources Identified in Virginia (current as of March 15, 2019) (Associated EIR No. 78d)
REVISED Table 4.5-8	Archaeological Resources Identified in North Carolina (current as of March 15, 2019) (Associated EIR No. 78d)
REVISED Table 4.5-9	Aboveground Resources Identified in Virginia (current as of March 15, 2019) (Associated EIR No. 79)
REVISED Table 4.5-10	Aboveground Resources Identified in North Carolina (current as of March 15, 2019) (Associated EIR No. 79)
NEW Table 65-1	Archaeological and Historic Architectural Sites Identified by Survey Listed by Milepost (Associated EIR No. 65)
NEW Table 67-1	Previously Recorded Archaeological and Architectural Resources Identified by Survey (current as of March 15, 2019) (Associated EIR No. 67)
<u>Attachments:</u>	
Attachment 72-1	Plan-view Maps for Archaeological and Historic Architectural Sites (Associated EIR No. 72)
Attachment 74-1	Draft Report for Supplemental Phase I Deep Testing Investigations and Phase II Archaeological Testing of Sites 44PY0375, 44PY0449, and 44PY0455 for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia (Associated EIR No. 74)
	Draft Report for the Phase II Archeological Testing of Sites 31RK221 and 31RK238 and Supplemental Phase I Deep Testing Investigations at Hogan’s Creek and Wolf Island Creek for the VP Southgate Project, Rockingham County, NC and Updated Site Forms (Associated EIR No. 74)
	Draft Addendum I Phase I Archeological Survey for the MVP Southgate Project, Alamance, Guilford, and Rockingham County, North Carolina is in Attachment 74-1 (Associated EIR No. 74)

Resource Report 5 – Socioeconomics	
UPDATED RESOURCE REPORT 5 – SOCIOECONOMIC AND ENVIRONMENTAL JUSTICE ANALYSIS (Associated EIR No. 91)	
5.2	ANALYSIS AREA (Associated EIR No. 91)
REVISED Table 5.2-1	Construction Schedule for the MVP Southgate Project (Associated EIR No. 91)
5.3.8	Environmental Justice (Associated EIR No. 91)
5.3.8.1	Federal Environmental Screening (Associated EIR No. 91)
REVISED Table 5.3-9	EJ Block Group and Census Tracts for Counties Crossed by the MVP Southgate Project Facilities (Associated EIR No. 90, 91)
REVISED Table 5.3-10	EJ Block Group and Census Tracts for Counties Crossed by the MVP Southgate Project by Milepost (Associated EIR No. 91)
5.4.8	Environmental Justice (Associated EIR No. 91)
5.4.8.1	Disproportionate High and Adverse Effects on Minority or Low Income Populations (Associated EIR No. 91)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Report 6 – Geology	
Table 6.2-1	Elevations at the MVP Southgate Project Aboveground Facilities
REVISED Appendix 6-D Table 1	Areas of Potential Blasting by Milepost for Right-of-Way Grade and Pipeline Trench Excavation for the MVP Southgate Project

Resource Report 7 – Soils	
REVISED Table 7.2-1	Summary of Soil Characteristics and Limitations for the MVP Southgate Project (Associated EIR No. 112)
REVISED Table 7.2-2	Soil Types Crossed by the MVP Southgate Project
REVISED Table 7.3-1	Prime Farmland Affected by the MVP Southgate Project
NEW Table 113-1	Prime Farmland Permanently Affected by the MVP Southgate Project (Associated EIR No. 113)

Resource Report 8 – Land Use, Recreation, and Visual Resources	
REVISED Table 8.2-1	Land Uses Crossed by the Southgate Project Pipeline
REVISED Table 8.2-2	Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline (Associated EIR No. 114)
REVISED Table 8.2-3	Agricultural Drainage Tiles and Irrigation Systems Located on Parcels Affected by the Southgate Project
REVISED Table 8.2-4	Silviculture Areas Crossed by the Southgate Project
REVISED Table 8.2-6	Railroads Crossed by the Southgate Project
REVISED Table 8.4-1	Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project (Associated EIR No. 121, 122)
REVISED Table 8-A	Land Use Crossed by Milepost for the Southgate Project Pipeline
REVISED Table 8-B	Roadways Crossed by the Southgate Project
REVISED Table 8-D	Structures within 50 Feet of the Southgate Project (Associated EIR No. 117, 118)
REVISED Appendix 8-C	Site-specific Residential Construction and Mitigation Plans (Associated EIR No. 117)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 9 – Air Quality and Noise	
Table 9-A1	MVP Southgate Project Construction Period Emissions Summary
Table 9-A2	MVP Southgate Project Construction Period Work Activity Emissions Summary
Table 9-A3(a)	MVP Southgate Project Fugitive Dust Emissions During Construction
Table 9-A3(b)	MVP Southgate Project Paved Road Fugitive Dust Emissions During Construction
Table 9-A3(c)	MVP Southgate Project Unpaved Road Fugitive Dust Emissions During Construction
Table 9-A4	H-605 and H-650 Pipeline Construction Equipment Air Emissions - Pittsylvania County
Table 9-A5	H-650 Pipeline Construction Equipment Air Emissions - Rockingham County
Table 9-A6	H-650 Pipeline Construction Equipment Air Emissions - Alamance County
Table 9-A7	Lambert Compressor Station Construction Equipment Air Emissions - Pittsylvania County
Table 9-A8	Lambert Interconnect Construction Equipment Air Emissions - Pittsylvania County
Table 9-A9	LN 3600 and T-15 Dan River Interconnect Construction Equipment Air Emissions - Rockingham County
Table 9-A10	T-21 Haw River Interconnect Construction Equipment Air Emissions - Alamance County
<u>Attachments:</u>	
Attachment 127-1	Additional VADEQ Correspondence Since December 14, 2018 (Associated EIR No. 127)

Resource Report 10 – Alternatives	
REVISED Table 10.5-1	Comparison of the Preferred Route and Route Alternative 1 (Associated EIR No. 134)
REVISED Table 10.5-2	Comparison of the Preferred Route and Route Alternative 2 (Associated EIR No. 134)
REVISED Table 10.5-3	Comparison of the Preferred Route and Route Alternative 3 (Associated EIR No. 134)
REVISED Table 10.5-4	Comparison of the Preferred Route and FERC Alternative 1 (Associated EIR No. 134)
REVISED Table 10.5-5	Comparison of the Preferred Route and FERC Alternative 2 (Associated EIR No. 134)
REVISED Table 10.5-6	Comparison of the Preferred Route and FERC Alternative 3 (Associated EIR No. 134)
REVISED Table 10.5-7	Comparison of the Preferred Route and FERC Alternative 4 (Associated EIR No. 134)
REVISED Table 10.5-8	Comparison of the Preferred Route and FERC Alternative 5 (Associated EIR No. 134)
REVISED Table 10.5-9	Comparison of the Preferred Route and FERC Alternative 6 (Associated EIR No. 134)
REVISED Table 10.5-10	Comparison of the Original Route and Mystic Valley Reroute (Preferred Route) (Associated EIR No. 134)
REVISED Table 10.6-1	Comparison of the Preferred Route and Robert Pollok-Hill View Farms Variation (Associated EIR No. 134)
REVISED Table 10.6-2	Comparison of the Preferred Route and MP 40.0 to MP 41.4 Variation (Associated EIR No. 134)
REVISED Table 10.6-3	Comparison of the Original Route and MP 69.5 to MP 69.7 Variation (Preferred Route) (Associated EIR No. 134)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Resource Report 10 – Alternatives	
REVISED Table 10.6-4	Route Variations Incorporated into the MVP Southgate Project Pipeline (Associated EIR No. 134)
REVISED Table 10.7-1	Comparison of the Proposed Lambert Compressor Station Site and Alternative 1 (Associated EIR No. 134, 135)
NEW Table 136-1	Comparison of the Preferred Route and Whitehead Variation (Associated EIR No. 136)
NEW Table 137-1	Comparison of the Preferred Route and Shambley Variation (Associated EIR No. 137)
NEW Table 138a-1	Comparison of the Preferred Route and Bombardier Variation (Associated EIR No. 138)
NEW Table 138b-1	Comparison of the Preferred Route and Moore Variation (Associated EIR No. 138)
NEW Table 138f-1	Comparison of the Preferred Route and Nicholson Variation (Associated EIR No. 138)
NEW Table 138g-1	Comparison of the Preferred Route and Madrin Variation (Associated EIR No. 138)
<u>Figures</u>	
Figure 136-1, 136-1A	Whitehead Variation (MP 3.65 to MP 5.1)
Figure 137-1, 137-1A	Shambley Variation (MP 59.3 to MP 59.9)
Figure 138a-1, 138a-1A	Bombardier Variation (MP 59.0 to MP 59.4)
Figure 138b-1, 138b-1A	Moore Variation (MP 33.1 to MP 33.9)
Figure 138f-1, 138f-1A	Nicholson Variation (MP 3.65 to MP 4.0)
Figure 138g-1, 138g-1A	Madrin Variation (MP 58.1 to MP 58.9)
Resource Report 11 – Reliability and Safety	
REVISED Table 11.2-1	MVP Southgate Project Pipeline Class Locations
REVISED Table 11.2-2	Location of High Consequence Areas (Associated EIR No. 139)

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

Table of Contents for March 2019 Supplemental Filing

Appendix 1-A Alignment Sheets
CEII_RR01-005-Appendix 1-A_MVP Southgate - Fig 1-A (Associated EIR No. 140)
RR01-001-Appendix 1-A-MVP Southgate - Alignments 605-PIVA-01 (Associated EIR No. 140)
RR01-002-Appendix 1-A-MVP Southgate - Alignments 650-PIVA-01 -14 (Associated EIR No. 140)
RR01-003-Appendix 1-A-MVP Southgate - Alignments 650-PIVA-15 – 28 (Associated EIR No. 140)
RR01-004-Appendix 1-A-MVP Southgate - Alignments-650-RONC-01 – 17 (Associated EIR No. 140)
RR01-005-Appendix 1-A-MVP Southgate - Alignments-650-RONC-17A – 28 (Associated EIR No. 140)
RR01-006-Appendix 1-A-MVP Southgate - Alignments-650-ALNC-01 - 12A (Associated EIR No. 140)
RR01-007-Appendix 1-A-MVP Southgate - Alignments-650-ALNC-13 – 21 (Associated EIR No. 140)
RR01-008-Appendix 1-A-MVP Southgate - Quads Maps-01-16
RR01-009-Appendix 1-A-MVP Southgate - Permit HDD-01-04
RR01-010-Appendix 1-A-MVP Southgate - Contractor Yard Drawings-01-06 (Associated EIR No. 140)
Alignment Sheet Revision Comments - 03-28-19