

**APPENDIX U**

**Cumulative Impacts – Other Projects Table**

APPENDIX U

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction/ Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Fishing Creek HUC10 Watershed (Wetzel County, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia.	In service	3,189.0 <u>d/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/ Central West Virginia Intrastate
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	Active	18.4 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/ Central West Virginia Intrastate

APPENDIX U (continued)												
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FERC-jurisdictional Natural Gas Interstate Transportation Projects	Supply Header Project (CP 15-555) (026)	MVP and EEP	Approximately 8.9 miles (of 36.7 miles total) of 30-inch-diameter natural gas pipeline loop and modifications at two existing compressor stations. Owned by Dominion.	Application filed with FERC in September 2015. Impacts are expected to occur from 2016 - 2018.	135.3 / 54.1 <u>f/</u>	Prime Farmland - 6.8 ac Erodible Soils - 79.0 ac Waterbodies crossed - N/A Wetlands - 0.9 ac T&E Species - yes Forest - 119.2 ac <u>g/</u>	X	X	X	X	X	Parkersburg (West Virginia) Marietta (Ohio),
Non-Jurisdictional Gathering Systems	Anderson Dehydration Station (006)	MVP	New dehydration facility operated by Williams Ohio Valley Midstream LLC	In service (2013)	5.0 <u>h/</u>	Not available	X	X	X	X	X	Parkersburg-Marietta Interstate AQCR
Non-Jurisdictional Gathering Systems	Yoho Station (007)	MVP	Modification to existing dehydration unit operated by Williams Ohio Valley Midstream LLC	In service (2013)	2.5 <u>h/</u>	Not available					X	Parkersburg-Marietta Interstate AQCR

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Non-Jurisdictional Gathering Systems	Winters Station (008)	MVP	Administrative updates operated by Stone Energy Corporation	In service (2014)	3.4 h <sub>l</sub>	Not available					X	Parkersburg-Marietta Interstate AQCR
Non-Jurisdictional Gathering Systems	Smithfield (012)	MVP	Turbine installation operated by Columbia Gas Transmission	NA	6.5 h <sub>l</sub>	Not available					X	Parkersburg-Marietta Interstate AQCR
Non-Jurisdictional Gathering Systems	Lemons (014)	MVP	Operated by Stone Energy Corporation	In service	5.0 h <sub>l</sub>	Not available	X	X	X	X	X	Parkersburg-Marietta Interstate AQCR
Non-Jurisdictional Gathering Systems	Weekley (015)	MVP	Operated by Stone Energy Corporation	Permit issued April 6, 2015	2.2 h <sub>l</sub>	Not available	X	X	X	X	X	Parkersburg-Marietta Interstate AQCR

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<b>Middle West Fork River HUC10 Watershed (Harrison, Lewis, and Upshur Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia.	In service	11,185.1 <u>d/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Atlantic Coast Pipeline (CP15-554) (024)	MVP	Approximately 20.6 miles (out of 550 total) of new 42-inch natural gas and one new compressor station (out of three). Operated by Dominion Duke Energy, Piedmont Natural Gas and AGL Resources.	Application filed with FERC in September 2015	311.7 / 124.7 <u>f/</u>	Prime Farmland - 93.5 ac Erodible Soils - 105.0 ac Waterbodies crossed – 30 Wetlands - 40.5 ac T&E Species – yes, Forest - 137.1 ac <u>g/</u>	X	X	X	X	X	81.231 Central West Virginia, 81.234 North Central West Virginia

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Supply Header Project (CP 15-555) (026)	MVP and EEP	Approximately 0.4 mile (of 36.7 miles total) of 30-inch-diameter natural gas pipeline loop and modifications at two existing compressor stations. Owned by Dominion.	Application filed with FERC in September 2015. Impacts are expected to occur from 2016 - 2018.	5.8 / 2.3 <u>f/</u>	Prime Farmland - 0.3 ac Erodible Soils - 3.4 ac Waterbodies crossed - N/A Wetlands - 0.04 ac T&E Species – yes Forest - 5.1 ac	X	X	X	X	X	81.231 Central West Virginia, 81.70 Parkersburg (West Virginia) Marietta (Ohio), Southwest Pennsylvania Intrastate
Non-Jurisdictional Gathering Systems	Stonewall Gas Gathering Pipeline (019)	MVP	9.3 miles (of a total of 55 miles) of gathering line consisting of both 24 and 30-inch pipe that will connect to the Momentum Midstream's Appalachian Gathering System. Operated by Momentum Midstream	In service	141.2 / 56.5 <u>f/</u>	Not available	X	X	X	X	X	81.231 Central West Virginia

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<b>Tenmile Creek HUC10 Watershed (Harrison County, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	5,451.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and renewed mining permits in various counties in West Virginia.	Active	157.2 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
Mining Operations	Prep Plant (036) <u>j/</u>	EEP	Various mining permits owned by various operators located in Greene County, Pennsylvania.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR

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Mining Operations	Refuse Disposal (038) <u>i/</u>	EEP	Various mining permits owned by various operators located in Greene County, Pennsylvania.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Refuse Disposal (039) <u>i/</u>	EEP	Various mining permits owned by various operators located in Washington County, Pennsylvania.	In service	5.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Refuse Processing – Hawkins (043) <u>i/</u>	EEP	Active Bituminous coal mining permit - 63813210 operated by PA Coal Reclamation Inc.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Surface – Various (044) <u>i/</u>	EEP	Five active surface mining permits under various permit numbers and operators.	In service	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR



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Mining Operations	Surface – Various (045) <u>i/</u>	EEP	Four active surface mining permits under various permit numbers and operators.	In service	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Supply Header Project (CP 15-555) (026)	MVP and EEP	Approximately 10.1 miles (of 37.5 miles total) of 30-inch-diameter natural gas pipeline loop and modifications at two existing compressor stations. Owned by Dominion.	Application filed with FERC in September 2015. Impacts are expected to occur from 2016 - 2018.	152.7 / 61.1 <u>f/</u>	Prime Farmland - 7.6 ac Erodible Soils - 89.1 ac Waterbodies crossed - N/A Wetlands - 1.1 ac T&E Species – yes Forest - 134.5 ac	X	X	X	X	X	81.231 Central West Virginia, 81.70 Parkersburg (West Virginia) Marietta (Ohio), Southwest Pennsylvania Intrastate
<b>Headwaters Middle Island Creek HUC10 Watershed (Doddridge and Tyler Counties, WV) <u>g/</u></b>												

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Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	11,308.0 <u>d/</u> <u>i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	In service	8.2 <u>l/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

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FERC-jurisdictional Natural Gas Interstate Transportation Projects	Rover Pipeline Project (CP15-93) (027)	MVP and EEP	There would be 14.5 miles of pipeline within this watershed. The total Rover Pipeline Project would encompass 511 miles of pipeline between West Virginia and Michigan to carry transport 3.3 Bcf/d.	Application filed with FERC in February 2015. Impacts expected to occur 2016 - 2017.	219.7 / 87.7 <u>f/</u>	Prime Farmland - 138.4 ac Erodible Soils - 63.7 ac Waterbodies crossed – 1 Wetlands - 3.7 ac T&E Species – yes Forest - 70.3 ac	X	X	X	X	X	81.231 Central West Virginia,
Non-Jurisdictional Gathering Systems	Stonewall Gas Gathering Pipeline (019)	MVP	10.2 miles (of a total of 55 miles) of gathering line consisting of both 24 and 30-inch pipe that will connect to the Momentum Midstream's Appalachian Gathering System. Operated by Momentum Midstream	In service	155.0 / 62.0 <u>f/</u>	Not available	X	X	X	X	X	81.231 Central West Virginia, 81.234 North Central West Virginia

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Non-Jurisdictional Gathering Systems	Janus Compressor Station (002)	MVP	New compressor station operated by EQT Gathering, LLC, Doddridge County, West Virginia.	March 2016	8.4 h <sub>l</sub>	Not available	X	X	X	X	X	Central West Virginia Intrastate AQCR
Non-Jurisdictional Gathering Systems	Mobley Gas Plant (013)	MVP	Gas processing expansion operated by MarkWest Liberty Midstream, Wetzel County, West Virginia.	Not available	81.2 h <sub>l</sub>	Not available	X	X	X	X	X	Parkersburg-Marietta Interstate AQCR

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<b>Leading Creek HUC10 Watershed (Doddridge, Lewis, and Gilmer Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	7,287.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and renewed mining permits in various counties in West Virginia.	In service	2.4 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

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<b>Upper West Fork River HUC10 Watershed (Lewis and Upshur Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	6,327.4 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Atlantic Coast Pipeline (CP15-554) (024)	MVP	Approximately 0.9 miles (out of 550 total) of new 42-inch natural gas, and one new compressor station (out of three). Operated by Dominion Duke Energy, Piedmont Natural Gas and AGL Resources.	Application filed with FERC in September 2015	13.0 / 5.2 <u>f/</u>	Prime Farmland - 3.9 ac Erodible Soils - 4.4 ac Waterbodies crossed – 1 Wetlands - 1.7 ac T&E Species – yes Forest - 5.7 ac <u>g/</u>	X	X	X	X	X	81.231 Central West Virginia,

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Non-Jurisdictional Gathering Systems	Stonewall Gas Gathering Pipeline (019)	MVP	5.5 miles (of a total of 55 miles) of gathering line consisting of both 24 and 30-inch pipe that will connect to the Momentum Midstream's Appalachian Gathering System. Operated by Momentum Midstream	In service	82.9 / 32.9 <u>f/</u>	Not available	X	X	X	X	X	81.231 Central West Virginia, 81.234 North Central West Virginia
<b>Sand Fork HUC10 Watershed (Lewis and Gilmer Counties, WV) <u>g/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	5,369.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR

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Non-Jurisdictional Gathering Systems	Stonewall Gas Gathering Pipeline (019)	MVP	6.1 miles (of a total of 55 miles) of gathering line consisting of both 24 and 30-inch pipe that will connect to the Momentum Midstream's Appalachian Gathering System. Operated by Momentum Midstream	In service	91.7 / 36.6 <u>f/</u>	Not available	X	X	X	X	X	81.231 Central West Virginia, 81.234 North Central West Virginia
<b>Upper Little Kanawha River HUC10 Watershed (Braxton, Webster, Lewis, Gilmer and Upshur Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	8,812.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR



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FERC-jurisdictional Natural Gas Interstate Transportation Projects	Columbia WB Xpress Project (CP15-38) (021)	MVP	Construction of about 5 miles (out of 29 total) of various diameter pipelines, two new compressor stations, and modifications at seven existing compressor stations along Columbia's WB natural gas pipeline system.	Application filed with FERC December 2015	75.8 <u>m/</u>	Upland forest - 6.5 ac Wetlands - 2.0 ac <u>g/</u>	X	X	X	X	X	81.231 Central West Virginia
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Columbia Smithfield III Expansion Project (CP13-477) (032)	MVP	Construction of a new compressor station in PA, two compressor units and other facilities in WV. Operated by Columbia Gas Transmission.	In service	17.4 <u>l/</u>	Developed Land - 13.3 ac Open Land - 4.1 ac	X	X	X	X	X	81.231 Central West Virginia

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Non-Jurisdictional Gathering Systems	Stonewall Gas Gathering Pipeline (019)	MVP	16.9 miles (of a total of 55 miles) of gathering line consisting of both 24 and 30-inch pipe that will connect to the Momentum Midstream's Appalachian Gathering System. Operated by Momentum Midstream	In service	255.6 / 102.2 <u>f/</u>	Not available	X	X	X	X	X	Central West Virginia Intrastate AQCR
Non-Jurisdictional Gathering Systems	Hastings Compressor Station (005)	MVP	Dehydration unit replacement operated by Dominion Transmission.	In service (2012)	5.2 h/	Not available					X	Parkersburg-Marietta Interstate AQCR
Non-Jurisdictional Gathering Systems	Burnsville (009)	MVP	Flare modification/Emergency generator replacement operated by Equitrans, L.P.	Permit issued August 2015	5.2 h/	Not available					X	Central West Virginia Intrastate AQCR

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<b>Holly River HUC10 Watershed (Braxton, Webster, and Randolph Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	69.8 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
<b>Middle Elk River HUC10 Watershed (Braxton, Webster, Nicholas, and Clay Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	965.4 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR

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Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	In service	12.0 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
<b>Laurel Creek HUC10 Watershed (Braxton and Webster Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	4.9 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	In service	333.5 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

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Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Birch River HUC10 Watershed (Braxton, Nicholas, and Webster Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	469.7 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and renewed mining permits in various counties in West Virginia.	In service	478.5 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Headwaters Gauley River HUC10 Watershed (Webster, Nicholas, and Pocahontas Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	5.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-noved mining permits in various counties in West Virginia.	In service	19.1 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Outlet Gauley River HUC10 Watershed (Webster, Nicholas, and Fayette Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	1,660.1 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and renewed mining permits in various counties in West Virginia.	In service	1,644.4 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Hominy Creek HUC10 Watershed (Nicholas and Greenbrier Counties, WV) <u>c/</u></b>												
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-noved mining permits in various counties in West Virginia.	In service	71.7 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
<b>Meadow River HUC10 Watershed (Nicholas, Fayette, Greenbrier, and Summers Counties, WV) <u>c/</u></b>												
Oil and Gas Exploration and Production	Multiple Oil and Gas Wells (001)	MVP and EEP	Various active oil and gas wells located in West Virginia and Pennsylvania.	In service	5.0 <u>d/ i/</u>	Not available	X	X	X	X	X	North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate/ Southwest Pennsylvania Intrastate AQCR



APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	In service	1,671.8 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
<b>Glade Creek-New River HUC10 Watershed (Fayette, Summers, and Raleigh Counties, WV) <u>c/</u></b>												
Mining Operations	Multiple active mining permits (034)	MVP and EEP	New and re-newed mining permits in various counties in West Virginia.	In service	8.8 <u>e/</u>	Not available	X	X	X	X		North Central West Virginia Intrastate AQCR/ Parkersburg-Marietta Interstate AQCR/Central West Virginia Intrastate
<b>Wolf Creek-Greenbrier River HUC10 Watershed (Greenbrier, Summers, and Monroe Counties, WV) <u>c/</u></b>												
No other projects identified												
<b>Indian Creek HUC10 Watershed (Monroe and Summers Counties, WV) <u>c/</u></b>												
No other projects identified												
<b>East River-New River HUC10 Watershed (Monroe County, WV and Giles and Mercer Counties, WV) <u>c/</u></b>												
No other projects identified												
<b>Sinking Creek-New River HUC10 Watershed (Monroe County, WV and Giles and Craig Counties, VA) <u>c/</u></b>												
No other projects identified												

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Upper Craig Creek HUC10 Watershed (Craig, Roanoke, and Montgomery Counties, VA) <u>c/</u></b>												
No other projects identified												
<b>North Fork Roanoke River HUC10 Watershed (Montgomery and Roanoke Counties, VA) <u>c/</u></b>												
Transportation/Roadway Projects	Elliston/ Ironto Connector (048)	MVP	Resurfacing of Route 603.	Under construction	6.1 n/	Not available						Valley of Virginia Intrastate AQCR
<b>Mason Creek-Roanoke River HUC10 Watershed (Montgomery, Roanoke, Salem, and Roanoke City Counties, VA) <u>c/</u></b>												
No other projects identified												
<b>South Fork Roanoke River HUC10 Watershed (Montgomery, Roanoke, and Floyd Counties, VA) <u>c/</u></b>												
Transportation/Roadway Projects	Elliston/ Ironto Connector (048)	MVP	Resurfacing of Route 603.	Under construction	6.1 n/	Not available						Valley of Virginia Intrastate AQCR
Transportation/Roadway Projects	I-81 Bridge Replacement Montgomery/ Pulaski County Line (047)	MVP	Replacement of I-81 bridges over the New River and the Route 232 bridge over I-81.	Planning stages	0.2 n/	Not available	X	X	X	X		Valley of Virginia Intrastate AQCR
<b>Upper Blackwater River HUC10 Watershed (Franklin County, VA) <u>c/</u></b>												
No other projects identified												
<b>Lower Blackwater River HUC10 Watershed (Franklin and Pittsylvania Counties, VA) <u>c/</u></b>												
Other Energy Projects	Smith Mountain Lakes/ Leesville Project (P-2210) (096)	MVP	Existing hydro-power facility operated by Appalachian Power	In service. Relicensed by FERC in 2009.	7,043.0 o/	Not available	X	X	X	X		Central Virginia Intrastate AQCR

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Upper Pigg River HUC10 Watershed (Franklin and Pittsylvania Counties, VA) <u>c/</u></b>												
No other projects identified												
<b>Lower Pigg River HUC10 Watershed (Franklin and Pittsylvania Counties, VA) <u>c/</u></b>												
Other Energy Projects	Smith Mountain Lakes/Leesville Project (P-2210) (096)	MVP	Existing hydro-power facility operated by Appalachian Power	In service. Relicensed by FERC in 2009.	158.0 <u>o/</u>	Not available	X	X	X	X		Central Virginia Intrastate AQCR
<b>Stinking River-Banister River HUC10 Watershed (Pittsylvania and Halifax Counties, VA) <u>c/</u></b>												
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Virginia Southside Expansion (CP13-30) (033)	MVP	Approximately 10 miles (out of 100 miles total) of new 24-inch diameter pipeline from Transco mainline in Pittsylvania County, Virginia and into Halifax, Charlotte, and Mecklenburg. Terminates in Brunswick County, Virginia. Operated by Transco.	In service	75.8 <u>p/</u>	Agricultural land - 8.63 ac Forested - 24.1 ac Open Land - 35.2 ac Wetlands - 2.6 Open Water - 0.2 ac <u>q/</u>	X	X	X	X	X	81.143 Central Virginia Intrastate

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Transportation/Roadway Projects	U.S. Route 29 South (049)	MVP	Replacement of structurally deficient bridge.	Planned to start in 2016	4.1 <u>f/</u>	Not available	X	X	X	X		Central Virginia Intrastate AQCR
<b>Cherrystone Creek-Banister River HUC10 Watershed (Pittsylvania County, VA) <u>c/</u></b>												
No other projects identified												
<b>South Fork Tenmile Creek HUC10 Watershed (Greene County, PA) <u>c/</u></b>												
Transportation/Roadway Projects	12-15-GR2 Greene (082)	EEP	Guardrail improvements at various locations	Under Construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	U.S. 19 Safety Improvements (083)	EEP	Intersection improvements	Under Construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	14-14-DIST-SI12 (084)	EEP	Resurfacing	Under Construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	1214-DIST-SI12 (092)	EEP	Resurfacing	Under Construction	0.5 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Supply Header Project (CP 15-555) (026)	EEP	Upgrade of Crayne Compressor Station. Owned by Dominion.	Application filed with FERC in September 2015. Impacts are expected to occur from 2016 - 2018.	Not applicable	Not available					X	Southwest Pennsylvania Intrastate AQCR

APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<b>Lower Monongahela HUC10 Watershed (Allegheny, Washington, Westmoreland, and Fayette Counties, PA) <u>c/</u></b>												
Mining Operations	Government Funded Construction Contracts (GFCC) - McHugh Res Estates (035)	EEP	Active Bituminous coal mining permit - 02-03-02 operated by Collier Land and Coal Development LP	In service	50.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Supply Header Project (CP 15-555) (026)	EEP	Upgrade of JB Tonkin Compressor Station. Owned by Dominion.	Application filed with FERC in September 2015. Impacts are expected to occur from 2016 - 2018.	Not applicable	Not available					X	Southwest Pennsylvania Intrastate AQCR
Mining Operations	Prep Plant - Champion/CR D Prep Site (037) <u>j/</u>	EEP	Active Bituminous coal mining permit - 63831306 operated by Champion Proc Inc.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Mining Operations	Refuse Disposal (039) <u>i/</u>	EEP	Various mining permits owned by various operators located in Washington County, Pennsylvania.	In service	5.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Refuse Processing - Harmar Site (040) <u>i/</u>	EEP	Active Bituminous coal mining permit - 02860201 operated by IP Harmar Holdings LLC	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Refuse Processing - Retention Pile (041) <u>i/</u>	EEP	Active Bituminous coal mining permit - 02020201 operated by Robindale Energy SVC Inc.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Refuse Processing - Phoenix (042) <u>i/</u>	EEP	Active Bituminous coal mining permit - 63070202, operated by Boca Coal Inc.	In service	10.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR

APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Mining Operations	Surface - Various (044) <u>j/</u>	EEP	Five active surface mining permits under various permit numbers	In service	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Mining Operations	Surface - Various (046) <u>j/</u>	EEP	Eighteen active surface mining permits under various permit numbers	In service	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Non-Jurisdictional Gathering Systems	Applegate Gathering System (0017)	EEP	Expansion of existing system, which could include construction of gathering pipelines and compression stations.	Preliminary planning stages	48.0 <u>q/</u>	Not available	X	X	X	X	X	Southwest Pennsylvania Intrastate AQCR
Non-Jurisdictional Gathering Systems	Mariner East Pipeline (017)	EEP	Delivery system designed to deliver from Western Pennsylvania to the Marcus Hook facility. Current capacity is 70,000 barrels per day.	In service	309.0 <u>q/</u>	Not available	X	X	X	X	X	Southwest Pennsylvania Intrastate AQCR

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Non-Jurisdictional Gathering Systems	Mariner East 2 Pipeline (018)	EEP	Expansion of existing system to increase capacity to 354,000 barrels per day (350 miles).	Expected to be operational in late 2016	2,121.0 <u>q/</u>	Not available	X	X	X	X	X	Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	Bridge Demand Mtc 7, 2015 (072)	EEP	Bridge preservation activities	Under construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	Bridge Wash 2016 (075)	EEP	Bridge preservation activities	Under construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	SR3098/Glass Run Bridge (076)	EEP	Bridge replacement	Under construction - estimated completion date December 2019	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	Glenwood Bridge Ramps (077)	EEP	Bridge rehabilitation	Under construction - estimated completion date December 2017	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	Homeville Road Viaduct TS05 (079)	EEP	Bridge rehabilitation	Under construction	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR



APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Transportation/Roadway Projects	WashCo Surface Impvmt-14 (086)	EEP	Resurfacing	Under construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	PA 481/Pigeon Creek Bridge (089)	EEP	Bridge replacement	Under construction	1.0 <u>k/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	12-15-S14 SIP Washington (090)	EEP	Resurfacing	Under construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	12-15-GR4 Washington (091)	EEP	Guardrail improvements at various locations	Under construction	1.0 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Transportation/Roadway Projects	1214-DIST-S112 (092)	EEP	Resurfacing	Under Construction	0.5 <u>k/</u>	Not available						Southwest Pennsylvania Intrastate AQCR
Commercial/Residential and Other Development Projects	Cool Valley Mixed Use Development (093)	EEP	911-acre mixed use development in Cecil township – 1,400 new homes, 2.3 million square feet of office and retail space.	Permitting in process	911.0 <u>f/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Commercial/ Residential and Other Development Projects	Park Place at the Meadowlands, Phase II (094)	EEP	44 acres of mixed use property in North and South Strabane townships	Under construction	44.0 <u>f/</u>	Not available	X	X	X	X		Southwest Pennsylvania Intrastate AQCR
<b>Steubenville-Weirton-Wheeling Interstate AQCR (West Virginia and Ohio) <u>c/</u></b>												
Other Energy Projects	ESC Brooke County Power I power plant	MVP and EEP	ESC proposes to construct, install, and operate a new natural gas and ethane fueled combined-cycle combustion turbine electric power plant.	Air permit application filed with WVDEP in March 2016.	Not applicable (not in common HUC 10 watershed)	Not available					X	Steubenville-Weirton-Wheeling Interstate AQCR
Non-Jurisdictional Gathering Systems	Sunoco Pipeline Follansbee Station (Mariner East 2)	MVP and EEP	Sunoco is proposing to construct, operate, and support a maintenance station in Brooke County, WV	Air permit application filed with WVDEP in December 2015.	Not applicable (not in common HUC 10 watershed)	Not available					X	Steubenville-Weirton-Wheeling Interstate AQCR

APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
Industrial	Arcelor Mittal Weirton LLC Steel Finishing Facility	MVP and EEP	Arcelor Mittal Weirton, LLC proposes the installation of a new hydrochloric acid tank at their steel finishing facility and hydrogen plan.	Application for modification to December 2014 Title V permit filed in April 2015.	Not applicable (not in common HUC 10 watershed)	Not available					X	Steubenville-Weirton-Wheeling Interstate AQCR
Other Energy Projects	Moundville Power LLC	MVP and EEP	Moundville Power LLC proposes the construction of a 549 MW natural gas fired combined cycle power plant.	Permit issued by WVDEP November 2014	Not applicable (not in common HUC 10 watershed)	Not available					X	Steubenville-Weirton-Wheeling Interstate AQCR

APPENDIX U (continued)

Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts

Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
FERC-jurisdictional Natural Gas Interstate Transportation Projects	Nexus Gas Transmission Project (CP16-22) - Hanoverton Compressor Station	MVP and EEP	Nexus and Texas Eastern request authorization to construct, own, and operate a new natural gas pipeline system in Ohio and Michigan. Construction of Hanoverton Compressor Station in Columbiana County, OH.	Draft EIS issued by FERC July 2016.	Not applicable (not in common HUC 10 watershed)	52,000 hp new compressor station					X	Steubenville-Weirton-Wheeling Interstate AQCR

APPENDIX U (continued)												
Other Projects in the Geographic Scope of Analysis Considered for Cumulative Impacts												
Project Type	Project ID / Project Facility <u>a/</u>	Cumulative Impact Association	Description of Facilities	Temporal Status	Acres Affected (Construction / Operation) <u>b/</u>	Specific Data for Resources Affected	Water Resources and Wetlands	Vegetation, Wildlife and Fisheries	Land Use, Recreation, and Visual Resources	Cultural Resources	Air Quality and Noise	Airshed(s) / AQCRs Associated with the Watershed
<u>a/</u>	Contains ID related to projects illustrated on Figures 4.13-1 and 4.13-2.											
<u>b/</u>	Acres affected includes the acreage of project that occurs within the watershed and not just the county shared with the MVP Project.											
<u>c/</u>	Counties/states identified in bold indicate counties that either the MVP Project or the EEP would cross. County/state names that are not bolded are located within the subject watershed or AQCR, but are not crossed by the MVP Project or the EEP.											
<u>d/</u>	Includes all active wells located in the listed watershed as of June 22, 2016 according to WVDEP Office of Oil and Gas ( <a href="http://tagis.dep.wv.gov/oog/">http://tagis.dep.wv.gov/oog/</a> ).											
<u>e/</u>	Includes coal (underground and surface), prospect, and quarry permits in West Virginia as of December 2015 ( <a href="https://apps.dep.wv.gov/WebApp/_dep/search/Permits/OMR/Permit_details">https://apps.dep.wv.gov/WebApp/_dep/search/Permits/OMR/Permit_details</a> ).											
<u>f/</u>	Affected acres based on CP16-10 and CP16-13.											
<u>g/</u>	Terrestrial and aquatic impacts estimated based on scaling which assumes that subject project resources and impacts are evenly distributed within the affected watershed.											
<u>h/</u>	Estimated acreage based on use of Google Earth and an assumed 50-ft right-of-way for gathering systems.											
<u>i/</u>	Includes new and renewed permits for gas, oil, combined gas and oil, and coalbed methane wells from January 1, 2010 - December 14, 2015 ( <a href="http://www.depreportingservices.state.pa.us/ReportServer/Pages/ReportViewer.aspx?/Oil_Gas/Permits_Issued_Detail">http://www.depreportingservices.state.pa.us/ReportServer/Pages/ReportViewer.aspx?/Oil_Gas/Permits_Issued_Detail</a> ).											
<u>j/</u>	Pennsylvania Active Bituminous Coal Mining Permits - December 2015 information obtained from PADEP Bureau of Mining Programs Bituminous Coal Mining Reports ( <a href="http://www.dep.pa.gov/Business/Land/Mining/BureauofMiningPrograms/Reports/BituminousCoal/Pages/default.aspx">http://www.dep.pa.gov/Business/Land/Mining/BureauofMiningPrograms/Reports/BituminousCoal/Pages/default.aspx</a> ).											
<u>k/</u>	Assumed acreage based on historical knowledge of the typical size of similar projects.											
<u>l/</u>	Acreage obtained from EA (CP13-477; Accession No. 20131029-4012).											
<u>m/</u>	Estimated acreage based on CP15-38 filing (Accession No. 20151230-5391).											
<u>n/</u>	Affected acreages obtained from VADOT website ( <a href="http://www.virginiadot.org/projects/">http://www.virginiadot.org/projects/</a> ).											
<u>o/</u>	Acreages occurring in watershed obtained from Google Earth using coordinate data obtained from Smith Mountain Project website ( <a href="http://www.smithmtn.com/about/LeesvilleLake.aspx">http://www.smithmtn.com/about/LeesvilleLake.aspx</a> ). This is the area of surface water located in the watershed. The project does not contribute to ground disturbance, therefore not counted as an impact to the watershed.											
<u>p/</u>	Estimated acreage based on CP13-30 filing.											
<u>q/</u>	Estimated acreage based on assumed 50-ft right-of-way for gathering systems.											