

GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 4

Direction:
Upstream.

Note: View of adjacent tributary at confluence (left of photograph 3) with Tributary to Town Creek. Confluence located ~15-20 ft downstream of crossing location

Date: 08/06/2019



Photograph: 5

Direction:
Upstream

Note: View of upstream vegetation debris and obstruction in the channel. Debris ~15 to 20 feet upstream of crossing location

Date: 08/06/2019



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Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 6

Direction: Right
Bank.

Note: View of
right bank at
crossing location.
Bank height ~ 6.1
ft. Note sparse
vegetation and
steepness of bank.
Crossing at
location of pink
flagging tape

Date: 08/06/2019



Photograph: 7

Direction: Left
bank.

Note: View of
left bank at
crossing location
immediately
upstream of inside
bend of meander.
Bank height ~ 2.1
ft. Crossing at
location of pink
flagging tape

Date: 08/06/2019



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Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 8

Direction: Right
bank.

Note: View of
exposed roots at
right bank at bend,
downstream of
proposed pipeline
crossing. Note
adjacent tributary
confluence
(Photograph 4) at
right of photo

Date: 08/06/2019



Photograph: 9

Direction: Right
bank.

Note: view of
bedrock exposed
at bend
downstream of
proposed pipeline
crossing. Rock
consists on an
Amphibole-Schist
with mica, slightly
weathered.

Date: 08/06/2019



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Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 10

Direction: Right
bank.

Note: View of
right bank at
crossing location.
Note lack of
vegetation along
bank and
steepness of bank.

Date: 08/06/2019



Photograph: 11

Direction: Left
bank.

Note: View of
bedrock exposed
at bend upstream
of proposed
pipeline crossing.
Rock consists on
an Amphibole-
Schist with mica,
slightly weathered.

Date: 08/06/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 12

Direction: Top-down.

Note: Top-down view of bedrock exposed at bend downstream of proposed pipeline crossing. Sheared surface evidences a dextral fault parallel to outcrop plane.

Date: 08/06/2019

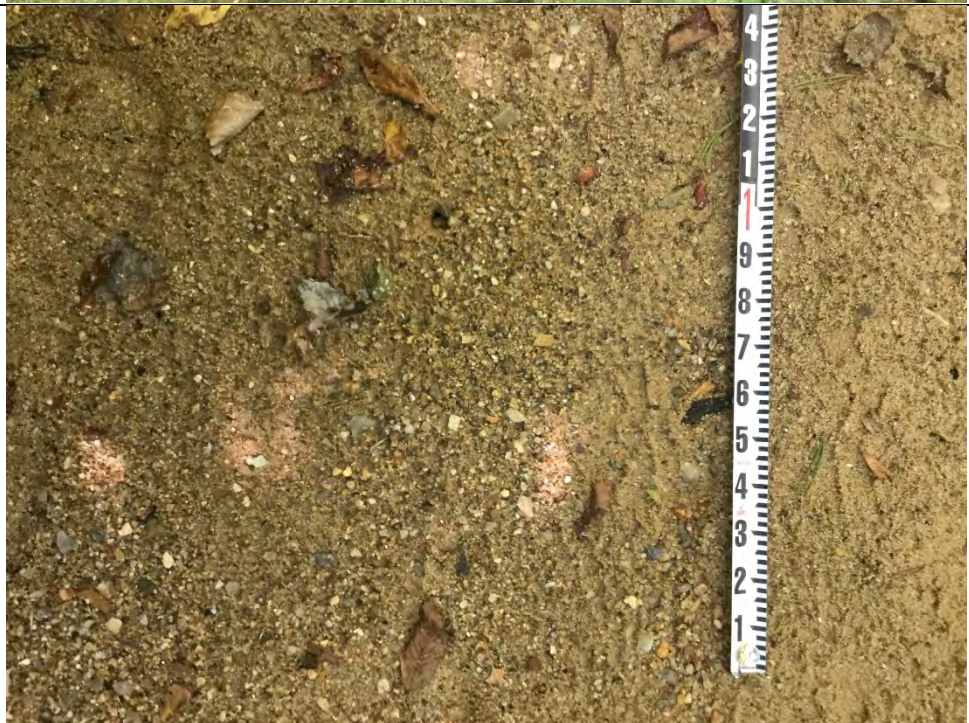


Photograph: 13

Direction: Top-down.

Note: Coarse sand and fine gravel inner-bank point bar at upstream bend of proposed pipeline crossing.

Date: 08/06/2019



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Project Number: TXG0072

Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 14

Direction:
Downstream.

Note: Mid-channel bar upstream of proposed pipeline crossing with coarse gravel to cobble-sized particles.

Date: 08/06/2019



Photograph: 15

Direction: Top-down.

Note: Bed material 10 ft downstream of proposed pipeline crossing, composed of silty sand with coarse gravel to coarse cobble, predominantly angular particles.

Date: 08/06/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 34.6 - Tributary to Town
Creek, NC

Site Location: Lat: 36.444453°, Lon: -79.688527°

Photograph: 16

Direction: Left
bank.

Note: Benchmark
survey point 1, left
bank, upstream of
proposed pipeline
crossing.

Date: 08/06/2019



Photograph: 17

Direction: Left
bank.

Note: Benchmark
survey point 2,
right bank,
downstream of
proposed pipeline
crossing.

Date: 08/06/2019



| | | | |
|--------------------|--------------------------|-------------------------------|--------|
| Stream Name | Tributary to Jones Creek | GEO_ID | SC_047 |
| Survey Date | 07-August-2019 | MP | 43.7 |
| Start Time | 0800 | Drainage Area (sq. mi) | 0.99 |

- Bankfull (Bkf) width = 16.5 ft; Bkf depth = 1.34 ft; Max Bkf depth = 2.1 ft
- Crossing located, ~60 ft upstream of confluence and ~10 to 20 ft upstream of fallen tree
 - Fallen tree caused aggradation and mid channel bar to development downstream of crossing
- Channel is incised with bank heights between 7 to 10 ft
- Significant large woody debris observed throughout reach
- Current alignment crosses channel obliquely and crosses adjacent tributary beyond left bank
 - Crosses main channel at two locations
 - Tributary channel moderately incised
- D_{50} of bed material = 35mm
- Scour observed
 - D_{max} of pool from woody debris = 2.29 ft
 - D_{max} of bend scour pool = 2.36 ft
 - D_{max} of riffle = 2.1 ft
 - D_{max} at confluence = 2.03 ft
- Left bank at crossing has moderate vegetation and shows evidence of bank erosion and migration
- Riparian buffer > 5 channel widths along right bank to valley wall.
- Flat, vegetated terrain within left and right floodplains;
- Flood-prone area width > 300-ft;

GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones
Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 1

Direction:
Downstream.

Note: upstream
view of site at
proposed pipeline
crossing.
Observed a mid-
channel bar.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Proposed
pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 2

Direction: Downstream

Note: general upstream view from mid-channel bar with vegetation debris.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones
Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 3

Direction: Top-
down.

Note: bed material
on left branch of
mid-channel bar.

Date: 08/07/2019



Photograph: 4

Direction:
Upstream

Note: riffle at left
branch of mid-
channel bar.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones
Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 5

Direction:
Upstream

Note: upstream
bend view from
benchmark point
1.

Date: 08/07/2019



Photograph: 6

Direction:
Upstream

Note: downstream
confluence of right
and left branch of
mid-channel bar.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones
Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 7

Direction: Left
bank.

Note: left bank
material at
proposed pipeline
crossing, next to
benchmark point
1.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream
Proposed pipeline crossings

Project Number: TXG0072

Site Name: MP 43.7 - Tributary to Jones
Creek

Site Location: Lat: 36.347230°, Lon: -79.606734°

Photograph: 8

Direction:
Upstream

Note: upstream
bend view from
benchmark point
1.

Date: 08/07/2019



Photograph: 9

Direction:
Downstream.

Note: upstream
bend view from
benchmark point
2.

Date: 08/07/2019



| | | | |
|--------------------|---------------------------|-------------------------------|--------|
| Stream Name | Tributary to Hogans Creek | GEO_ID | SC_050 |
| Survey Date | 07-August-2019 | MP | 47.7 |
| Start Time | 1300 | Drainage Area (sq. mi) | 0.35 |

- Bankfull (Bkf) width = 10.6 ft; Bkf depth = 1.21 ft; Max Bkf depth = 1.72 ft
- Measured slope of 0.0058 ft/ft
- Crossing located, ~15 ft upstream of confluence
- Current alignment crosses an adjacent tributary beyond the left bank.
- Current alignment crosses channel at meander bend; right bank is outside meander bend
- Bank heights between 1.5 to 4.5 ft
- Right bank approximately 4.4 ft, bank material stratified with coarse gravel to coarse cobble overlaid by sandy silt
 - Right bank undercut with presence of vegetation and exposed roots
- Bed material consists of coarse gravel to coarse cobble with predominantly angular particles
- D_{50} of bed material = 25mm
- Scour observed
 - D_{max} of bend scour pool = 3.04 ft
 - D_{max} of riffle = 1.8 ft
 - D_{max} at confluence = 1.85 ft
- Accessible, flat, vegetated floodplain > 10 channel widths;
- Riparian buffer > 5 channel widths along right bank to valley wall.
- Flood-prone area width > 300-ft;

GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 1

Direction:
Upstream

Note: View of crossing location located immediately upstream of confluence. Pipeline crosses both channels at location of Geosyntec personnel

Date: 08/07/2019



Photograph: 2

Direction:
Upstream

Note: View of crossing location at meander bend on left channel in Photograph 1. Note root wad/woody debris along right bank near crossing location.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 3

Direction:
Upstream

Note: View of crossing location on right channel in Photograph 1. Note vegetated banks and floodplain

Date: 08/07/2019



Photograph: 4

Direction:
Downstream

Note: View downstream at crossing location. Note root wad and woody debris photographed in Photograph 2 on right bank. MVP inspector standing at crossing locations

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

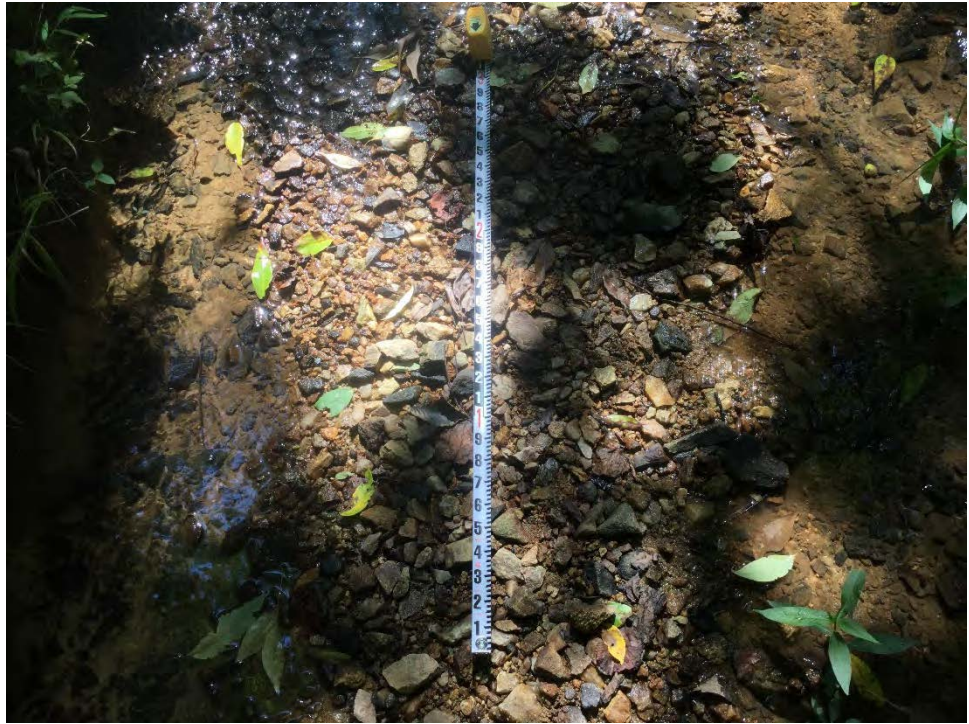
Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 5

Direction: View of bed material at riffle

Note: Mid-channel bar material at riffle upstream of crossing, composed of coarse gravel to coarse cobbles, predominantly angular particles.

Date: 08/07/2019



Photograph: 6

Direction: Downstream

Note: View of root exposure along right bank at crossing location. Note undercut right bank and vegetated upper bank

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 7

Direction: View of right bank at crossing

Note: Stratified material at right bank at crossing. Coarse gravel to coarse cobbles overlaid by sandy silt.

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 8

Direction:
Downstream

Note: Right bank at crossing. Bank height of 4.4 ft. Note undercutting of lower bank and presence of vegetation of upper bank

Date: 08/07/2019



Photograph: 9

Direction:
Downstream

Note: View of riffle located upstream of crossing. Note woody debris within channel and along banks

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 10

Direction:
Upstream

Note: View of adjacent tributary (right channel in Photograph 1) pipeline crosses. Note woody debris within channel and flat, well vegetated floodplain

Date: 08/07/2019

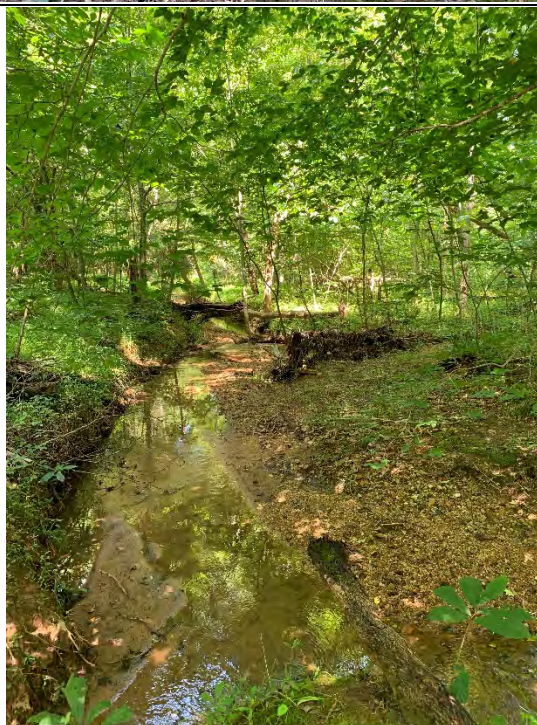


Photograph: 11

Direction:
Downstream

Note: View of channel downstream of confluence with adjacent tributary. Note low right bank height and woody debris within channel downstream

Date: 08/07/2019



GEOSYNTEC CONSULTANTS
Site Photographic Records

Project: Phase 2, MVP Southgate Stream Crossings

Project Number: TXG0072

Site Name: MP 47.7 - Tributary to Hogans Creek

Site Location: Lat: 36.297591° Lon: -79.581231°

Photograph: 12

Direction: View of BM01

Note: Benchmark survey point near crossing location.

Date: 08/07/2019

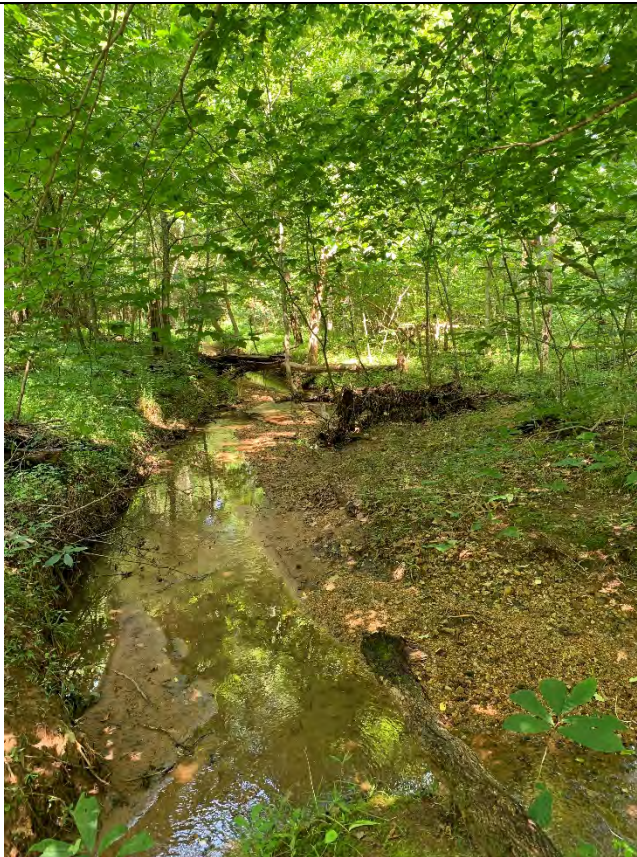


Photograph: 11

Direction: Downstream

Note: View of channel downstream of confluence with adjacent tributary. Note low right bank height and woody debris within channel downstream

Date: 08/07/2019





MVP Southgate Project

Docket No. CP19-14-000

Resource Report 7 Table Updates

October 2019

LIST OF TABLES

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| REVISED [Oct 2019] - Table 7.2-1 | | | | | | | | |
|---|--|----------------------------|------------------------|---------------------------------|--------------------------------|------------------------------------|--------------------------------------|-------------------------|
| Summary of Soil Characteristics and Limitations for the MVP Southgate Project | | | | | | | | |
| Facility / County, State | Area of Project Workspace within Designated Soil Classification / Limitation (Acres) | | | | | | | |
| | Prime Farmland or Farmland of Statewide Importance <u>a/</u> | Compaction Prone <u>b/</u> | Hydric Soils <u>c/</u> | Highly Water Erodible <u>d/</u> | Highly Wind Erodible <u>e/</u> | Shallow Depth to Bedrock <u>f/</u> | Low Revegetation Potential <u>g/</u> | Stony / Rocky <u>h/</u> |
| H-605 Pipeline | | | | | | | | |
| Pittsylvania, Virginia | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| H-650 Pipeline | | | | | | | | |
| Pittsylvania, Virginia | 360.2 | 2.6 | 2.6 | 9.2 | 0.0 | 18.5 | 19.8 | 18.5 |
| Rockingham, North Carolina | 260.7 | 2.2 | 2.6 | 16.9 | 0.0 | 61.6 | 0.0 | 0.0 |
| Alamance, North Carolina | 284.2 | 9.2 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 |
| Cathodic Protection Groundbeds | | | | | | | | |
| Pittsylvania, Virginia | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rockingham, North Carolina | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alamance, North Carolina | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Aboveground Facilities | | | | | | | | |
| Pittsylvania, Virginia | | | | | | | | |
| Lambert Compressor Station / Interconnect / MLV 1 (MP 0.0) | 19.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| REVISED [Oct 2019] - Table 7.2-1 | | | | | | | | |
|---|--|----------------------------|------------------------|---------------------------------|--------------------------------|------------------------------------|--------------------------------------|-------------------------|
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| Facility / County, State | Area of Project Workspace within Designated Soil Classification / Limitation (Acres) | | | | | | | |
| | Prime Farmland or Farmland of Statewide Importance <u>a/</u> | Compaction Prone <u>b/</u> | Hydric Soils <u>c/</u> | Highly Water Erodible <u>d/</u> | Highly Wind Erodible <u>e/</u> | Shallow Depth to Bedrock <u>f/</u> | Low Revegetation Potential <u>g/</u> | Stony / Rocky <u>h/</u> |
| MLV 2 and 3 (MPs 7.4 and 18.3) | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Contractor Yards | 98.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 |
| Access Roads | 35.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.5 | 0.6 | 0.5 |
| Rockingham, North Carolina | | | | | | | | |
| LN 3600 Interconnect (MP 28.2) | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| T-15 Dan River Interconnect / MLV 4 (MP 30.4) | 5.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| MLV 5 (MP 42.2) | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Contractor Yards | 0.0 | 10.9 | 10.9 | 7.4 | 0.0 | 10.9 | 0.0 | 18.3 |
| Access Roads | 28.8 | 0.3 | 0.0 | 0.5 | 0.0 | 5.2 | 0.0 | <0.1 |
| Alamance County, North Carolina | | | | | | | | |
| MLVs 6 and 7 (MPs 55.1 and 68.7) | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| T-21 Haw River Interconnect / MLV 8 (MP 73.1) | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Contractor Yards | 22.1 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 0.0 | 0.0 |
| Access Roads | 18.1 | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 |
| Caswell County, North Carolina | | | | | | | | |

| REVISED [Oct 2019] - Table 7.2-1 | | | | | | | | |
|---|--|----------------------------|------------------------|---------------------------------|--------------------------------|------------------------------------|--------------------------------------|-------------------------|
| Summary of Soil Characteristics and Limitations for the MVP Southgate Project | | | | | | | | |
| Facility / County, State | Area of Project Workspace within Designated Soil Classification / Limitation (Acres) | | | | | | | |
| | Prime Farmland or Farmland of Statewide Importance <u>a/</u> | Compaction Prone <u>b/</u> | Hydric Soils <u>c/</u> | Highly Water Erodible <u>d/</u> | Highly Wind Erodible <u>e/</u> | Shallow Depth to Bedrock <u>f/</u> | Low Revegetation Potential <u>g/</u> | Stony / Rocky <u>h/</u> |
| Contractor Yards | 23.4 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 |
| Access Roads | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Area within Soil Designation | 1,171.8 | 25.7 | 16.2 | 34.4 | 0.0 | 119.6 | 24.8 | 37.3 |
| Percent of Project Area <u>i/</u> | 80 | 2 | 1 | 2 | 0 | 8 | 2 | 3 |
| <p>Note: Pig launchers and receivers will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for the pig launchers and receivers are included with those facilities. Mainline Valves (MLVs) 1, 4, and 8 will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for these MLVs are included with those facilities.</p> <p><u>a/</u> Prime farmland and Farmland of Statewide Importance includes soils mapped and designated as prime farmland and farmland of statewide importance by the NRCS (SSURGO reference column "farmland"). Prime Farmland if drained and / or irrigated and / or reclaimed of excess salts and sodium is not included in this acreage. No areas of Farmland of local importance or unique farmland are affected by the Project.</p> <p><u>b/</u> Soils categorized as compaction prone include soils with clay loam or finer texture and a drainage class of poor, somewhat poor, and very poor.</p> <p><u>c/</u> Hydric soils include soils with a USDA NRCS hydric classification – presence of predominantly hydric (67% to 99%) and hydric (100%).</p> <p><u>d/</u> Highly water erodible soils include soils with a K factor that is greater than 0.4.</p> <p><u>e/</u> Highly wind erodible soils include those in wind erodibility groups 1 or 2.</p> <p><u>f/</u> Shallow bedrock soils included soils that have a depth to bedrock of less than 5 feet (60 inches).</p> <p><u>g/</u> Soils with low revegetation potential include soils with an average low rating based on factors including but not limited to drainage class of excessively drained or very poorly drained, K Factor greater than 0.40, and slope greater than 25 percent (see Table 7.2-2 in Appendix 7-A).</p> <p><u>h/</u> Stony/Rocky soils include those with a cobbly, stony, bouldery, shaly, channery, very gravelly, or extremely gravelly modifier to the textural class of the surface layer and / or that have a surface layer that contains greater than 5 percent by weight rock fragments larger than 3 inches.</p> <p><u>i/</u> Totals do not equal 100 percent as not all soils are classified with limitations and certain soils are classified as having multiple limitations. Percent of Project Area based on a total Project area of 1,465.9 acres.</p> | | | | | | | | |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-------------------------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| H-605 Pipeline | | | | | | | | | | | | | |
| Pittsylvania County, Virginia | | | | | | | | | | | | | |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 0 | 0.08 | 446 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | 0.08 | 0.1 | 58 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 0.1 | 0.17 | 374 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 0.17 | 0.47 | 1,609 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| H-650 Pipeline | | | | | | | | | | | | | |
| Pittsylvania County, Virginia | | | | | | | | | | | | | |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 0 RR | 0.13 | 802 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 0.13 | 0.3 | 928 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | 0.3 | 0.4 | 495 | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 9C | Creedmoor fine sandy loam, 7 to 15 percent slopes | 0.4 | 0.45 | 251 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 22B | Mattaponi sandy loam, 2 to 7 percent slopes | 0.45 | 0.53 | 444 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 9C | Creedmoor fine sandy loam, 7 to 15 percent slopes | 0.53 | 0.61 | 412 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 0.61 | 0.63 | 132 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 0.63 | 0.77 | 732 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | 0.77 | 0.89 | 616 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 0.89 | 0.93 | 232 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | 0.93 | 1.06 | 691 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 9C | Creedmoor fine sandy loam, 7 to 15 percent slopes | 1.06 | 1.15 | 468 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 1.15 | 1.25 RR | 541 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 9C | Creedmoor fine sandy loam, 7 to 15 percent slopes | 1.25 RR | 1.35 RR | 490 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 7A | Chenneby loam, 0 to 2 percent slopes, occasionally flooded | 1.35 RR | 1.86 | 2,872 | Yes | 5 | 0.44 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 41A | Wehadkee silt loam, 0 to 2 percent slopes, frequently flooded | 1.86 | 2.16 | 1,589 | No | 6 | 0.41 | Predominantly Hydric | High | >60 | No | Yes | Poorly drained |
| 7A | Chenneby loam, 0 to 2 percent slopes, occasionally flooded | 2.16 | 2.19 | 152 | Yes | 5 | 0.44 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 2.19 | 2.28 | 475 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 2.28 | 2.95 | 3,536 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 2.95 | 3.16 | 1,076 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 3.16 | 3.18 | 129 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 3.18 | 3.29 | 585 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 3.29 | 3.41 | 634 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 3.41 | 3.64 | 1,182 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 3.64 | 3.89 RR | 1,337 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 3.89 RR | 4.15 | 1,440 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 4.15 | 4.31 | 862 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 4.31 | 4.44 | 686 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 4.44 | 4.81 | 1,958 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 4.81 | 4.83 | 69 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | 4.83 | 5.22 | 2,073 | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 1C | Appling sandy loam, 7 to 15 percent slopes | 5.22 | 5.47 | 1,320 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 1B | Appling sandy loam, 2 to 7 percent slopes | 5.47 | 5.64 | 910 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 1C | Appling sandy loam, 7 to 15 percent slopes | 5.64 | 5.7 | 306 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 5.7 | 6.03 | 1,747 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.03 | 6.08 | 284 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 1B | Appling sandy loam, 2 to 7 percent slopes | 6.08 | 6.13 | 272 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.13 | 6.25 | 590 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 39 | Udorthents, loamy | 6.25 | 6.32 | 366 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.32 | 6.57 | 1,347 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 6.57 | 6.59 | 104 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.59 | 6.74 | 814 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 6.74 | 6.86 | 617 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.86 | 6.95 | 486 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 6.95 | 6.99 | 218 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 6.99 | 7.09 | 523 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 7.09 | 7.25 | 835 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 7.25 | 7.29 | 183 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 7.29 | 7.33 | 213 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 7.33 | 7.38 | 261 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 7.38 | 7.5 | 636 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 7.5 | 7.55 | 303 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21E | Madison fine sandy loam, 25 to 45 percent slopes | 7.55 | 7.61 | 276 | No | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 7.61 | 7.71 | 563 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 7.71 | 7.78 | 350 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 7.78 | 7.84 | 334 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 7.84 | 7.97 | 657 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 7.97 | 8.02 | 279 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 8.02 | 8.12 | 516 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 8.12 | 8.2 | 457 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 8.2 | 8.33 | 644 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 8.33 | 8.46 | 715 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 8.46 | 8.5 | 190 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 8.5 | 8.53 | 149 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | 8.53 | 8.58 | 292 | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 21E | Madison fine sandy loam, 25 to 45 percent slopes | 8.58 | 8.65 | 358 | No | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 8.65 | 8.76 | 586 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 8.76 | 8.84 | 421 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 8.84 | 8.87 | 166 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 8.87 | 8.92 | 265 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | 8.92 | 9.04 | 644 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 9.04 | 9.08 | 207 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 9.08 | 9.12 | 180 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 9.12 | 9.31 | 1,017 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 9.31 | 9.37 | 318 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 9.37 | 9.41 | 229 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 9.41 | 9.47 | 289 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 9.47 | 9.52 | 299 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 9.52 | 9.61 | 440 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 9.61 | 9.76 | 807 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 11B3 | Cullen clay loam, 2 to 7 percent slopes, severely eroded | 9.76 | 9.83 | 371 | No | 6 | 0.27 | Non-Hydric | High | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 9.83 | 9.89 | 314 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 11C3 | Cullen clay loam, 7 to 15 percent slopes, severely eroded | 9.89 | 9.91 | 89 | No | 6 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 9.91 | 10.02 | 598 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | 10.02 | 10.05 | 167 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 10.05 | 10.12 | 385 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 10.12 | 10.27 | 757 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 10.27 | 10.32 | 290 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 10.32 | 10.72 | 2,113 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 10.72 | 10.93 | 1,105 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 10.93 | 11.26 | 1,711 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 11.26 | 11.43 | 933 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 11.43 | 11.54 | 589 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 11.54 | 11.66 | 589 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 11.66 | 11.8 | 742 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 11.8 | 11.86 | 351 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 11.86 | 11.96 | 503 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 11.96 | 12.03 | 388 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 12.03 | 12.12 | 485 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 12.12 | 12.34 | 1,159 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 12.34 | 12.37 | 156 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 12.37 | 12.49 | 620 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 12.49 | 12.75 | 1,381 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | 12.75 | 12.8 | 257 | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 12.8 | 12.86 | 286 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 12.86 | 13.05 | 1,045 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | 13.05 | 13.21 | 810 | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 18C3 | Hiwassee clay loam, 7 to 15 percent slopes, severely eroded | 13.21 | 13.42 RR | 1,106 | No | 6 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | 13.42 RR | 13.47 RR | 276 | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 13.47 RR | 13.51 RR | 207 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 13.51 RR | 13.54 RR | 186 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 13.54 RR | 13.6 RR | 296 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 13.6 RR | 13.73 RR | 700 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 13.73 RR | 13.9 RR | 901 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 13.9 RR | 13.99 RR | 465 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 13.99 RR | 14.04 RR | 289 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 14.04 RR | 14.14 RR | 481 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 14.14 RR | 14.22 RR | 464 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 14.22 RR | 14.35 RR | 688 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 14.35 RR | 14.39 RR | 185 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 14.39 RR | 14.42 RR | 175 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 11C3 | Cullen clay loam, 7 to 15 percent slopes, severely eroded | 14.42 RR | 14.51 RR | 481 | No | 6 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 14.51 RR | 14.63 RR | 635 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 14.63 RR | 14.69 RR | 293 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 11B3 | Cullen clay loam, 2 to 7 percent slopes, severely eroded | 14.69 RR | 14.73 RR | 212 | No | 6 | 0.27 | Non-Hydric | High | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | 14.73 RR | 14.69 | 167 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 14.69 | 14.72 | 169 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 9C | Creedmoor fine sandy loam, 7 to 15 percent slopes | 14.72 | 14.78 | 302 | Yes | 3 | 0.2 | Predominantly Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 14.78 | 14.94 | 847 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 14.94 | 15.45 | 2,720 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 15.45 | 15.49 | 178 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 15.49 | 15.88 | 2,049 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 15.88 | 15.95 | 391 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 15.95 | 16.02 | 381 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 16.02 | 16.06 | 219 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 16.06 | 16.22 | 821 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 16.22 | 16.48 | 1,388 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 16.48 | 16.98 | 2,601 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 16.98 | 17.25 | 1,439 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 17.25 | 17.32 | 390 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 17.32 | 17.4 | 397 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 17.4 | 17.65 RR | 1,324 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| W | Water | 17.65 RR | 17.67 RR | 120 | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 17.67 RR | 17.82 RR | 788 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 17.82 RR | 17.85 RR | 187 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 17.85 RR | 17.89 RR | 200 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 17.89 RR | 17.95 RR | 287 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|------------------|---------------------------|------------------------------|----------------|---------------------|----------------|
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 17.95 RR | 18.01 | 686 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 18.01 | 18.4 | 2,095 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 18.4 | 18.45 | 228 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 18.45 | 18.82 | 1,990 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 18.82 | 18.88 | 294 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 18.88 | 18.99 | 585 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 18.99 | 19.05 | 340 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 19.05 | 19.12 | 327 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 19.12 | 19.22 | 519 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 19.22 | 19.3 | 442 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 19.3 | 19.35 | 268 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 19.35 | 19.59 | 1,259 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 19.59 | 19.64 | 295 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | 19.64 | 19.68 | 174 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 19.68 | 19.77 | 480 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | 19.77 | 19.89 | 656 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 19.89 | 19.99 | 496 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 19.99 | 20.01 | 142 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 20.01 | 20.04 | 135 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.04 | 20.09 | 251 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | 20.09 | 20.18 | 521 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.18 | 20.32 | 735 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 20.32 | 20.41 | 448 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.41 | 20.46 | 288 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 20.46 | 20.52 | 297 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.52 | 20.57 | 294 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 20.57 | 20.66 | 429 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.66 | 20.71 | 291 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | 20.71 | 20.75 | 200 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 20.75 | 21 | 1,345 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 21 | 21.05 | 250 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 21.05 | 21.15 | 502 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 21.15 | 21.28 | 703 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 21.28 | 21.34 | 302 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 21.34 | 21.48 | 753 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 21.48 | 21.56 | 404 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 29C | Pinkston-Mayodan complex, 7 to 15 percent slopes, very stony | 21.56 | 21.72 | 866 | No | 5 | 0.27 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 29D | Pinkston-Mayodan complex, 15 to 35 percent slopes, very stony | 21.72 | 21.76 | 214 | No | 5 | 0.28 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 21.76 | 22.02 | 1,393 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 22.02 | 22.07 | 252 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 22.07 | 22.15 | 412 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 22.15 | 22.2 | 267 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 28C | Pinkston cobbly sandy loam, 7 to 15 percent slopes | 22.2 | 22.25 | 284 | No | 5 | 0.3 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 22.25 | 22.28 | 140 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | 22.28 | 22.32 | 184 | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 22.32 | 22.33 | 98 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 22.33 | 22.47 RR | 720 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | 22.47 RR | 22.49 RR | 100 | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 22.49 RR | 22.59 RR | 555 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 29C | Pinkston-Mayodan complex, 7 to 15 percent slopes, very stony | 22.59 RR | 22.66 RR | 349 | No | 5 | 0.27 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 29D | Pinkston-Mayodan complex, 15 to 35 percent slopes, very stony | 22.66 RR | 22.77 RR | 603 | No | 5 | 0.28 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 29C | Pinkston-Mayodan complex, 7 to 15 percent slopes, very stony | 22.77 RR | 22.83 RR | 302 | No | 5 | 0.27 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 29E | Pinkston-Mayodan complex, 35 to 50 percent slopes, very stony | 22.83 RR | 22.93 RR | 500 | No | 5 | 0.28 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 22.93 RR | 23 RR | 398 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 34B | Sheva fine sandy loam, 2 to 7 percent slopes | 23 RR | 23.08 RR | 432 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.1 | Yes | No | Moderately well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 23.08 RR | 23.2 RR | 589 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | 23.2 RR | 23.27 RR | 397 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 23.27 RR | 23.36 RR | 470 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 23.36 RR | 23.7 RR | 1,816 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 23.7 RR | 23.78 RR | 424 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 23.78 RR | 23.91 RR | 677 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 23.91 RR | 23.89 | 497 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------------------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 23.89 | 24.01 | 617 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 24.01 | 24.3 | 1,563 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 29C | Pinkston-Mayodan complex, 7 to 15 percent slopes, very stony | 24.3 | 24.39 | 482 | No | 5 | 0.27 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | 24.39 | 24.59 | 1,023 | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 34B | Sheva fine sandy loam, 2 to 7 percent slopes | 24.59 | 24.82 | 1,212 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.1 | Yes | No | Moderately well drained |
| 18C3 | Hiwassee clay loam, 7 to 15 percent slopes, severely eroded | 24.82 | 24.83 | 53 | No | 6 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | 24.83 | 24.91 | 454 | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 18C3 | Hiwassee clay loam, 7 to 15 percent slopes, severely eroded | 24.91 | 24.94 | 170 | No | 6 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 28C | Pinkston cobbly sandy loam, 7 to 15 percent slopes | 24.94 | 25 | 313 | No | 5 | 0.3 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | 25 | 25.08 | 386 | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 25.08 | 25.26 | 955 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | 25.26 | 25.46 | 1,067 | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 28C | Pinkston cobbly sandy loam, 7 to 15 percent slopes | 25.46 | 25.68 | 1,137 | No | 5 | 0.3 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 25.68 | 25.77 | 480 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 25.77 | 25.82 | 295 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | 25.82 | 26.04 | 1,164 | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | 26.04 | 26.08 | 218 | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| Rockingham County, North Carolina | | | | | | | | | | | | | |
| CmB | Clover sandy loam, 2 to 8 percent slopes | 26.08 | 26.43 | 1,834 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 26.43 | 26.61 RR | 930 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmB | Clover sandy loam, 2 to 8 percent slopes | 26.61 RR | 26.66 RR | 259 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 26.66 RR | 26.76 RR | 550 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Clover sandy clay loam, 2 to 8 percent slopes, moderately eroded | 26.76 RR | 26.84 | 438 | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| CnE2 | Clover sandy clay loam, 15 to 25 percent slopes, moderately eroded | 26.84 | 26.97 RR | 662 | No | 5 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | 26.97 RR | 27.3 | 1,781 | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| DaA | Dan River loam, 0 to 2 percent slopes, frequently flooded | 27.3 | 27.66 RR | 1,893 | No | 5 | 0.31 | Predominantly Non-Hydric | High | >60 | No | No | Well drained |
| WhB | Wickham sandy loam, mesic, 1 to 4 percent slopes, rarely flooded | 27.66 RR | 27.92 RR | 1,369 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | 27.92 RR | 28.14 RR | 1,192 | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CmB | Clover sandy loam, 2 to 8 percent slopes | 28.14 RR | 28.36 RR | 1,177 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | 28.36 RR | 28.43 RR | 343 | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CmB | Clover sandy loam, 2 to 8 percent slopes | 28.43 RR | 28.55 RR | 613 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CmD | Clover sandy loam, 8 to 15 percent slopes | 28.55 RR | 28.77 | 1,214 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmE | Clover sandy loam, 15 to 25 percent slopes | 28.77 | 28.87 | 482 | No | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 28.87 | 28.96 | 484 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmE | Clover sandy loam, 15 to 25 percent slopes | 28.96 | 29.02 | 334 | No | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 29.02 | 29.08 | 304 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmE | Clover sandy loam, 15 to 25 percent slopes | 29.08 | 29.18 | 552 | No | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 29.18 | 29.25 | 340 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Clover sandy clay loam, 15 to 25 percent slopes, moderately eroded | 29.25 | 29.51 | 1,523 | No | 5 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 29.51 | 29.84 | 1,759 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| DaA | Dan River loam, 0 to 2 percent slopes, frequently flooded | 29.84 | 30.05 | 1,103 | No | 5 | 0.31 | Predominantly Non-Hydric | High | >60 | No | No | Well drained |
| W | Water | 30.05 | 30.1 | 226 | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |
| DaA | Dan River loam, 0 to 2 percent slopes, frequently flooded | 30.1 | 30.21 | 606 | No | 5 | 0.31 | Predominantly Non-Hydric | High | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 30.21 | 30.33 | 627 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | 30.33 | 30.61 | 1,486 | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 30.61 | 30.68 | 378 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | 30.68 | 30.81 | 680 | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 30.81 | 30.86 | 280 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | 30.86 | 30.89 | 128 | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 30.89 | 30.97 | 419 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 30.97 | 31.03 | 337 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 31.03 | 31.11 | 436 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 31.11 | 31.14 | 162 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 31.14 | 31.18 | 170 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 31.18 | 31.23 | 286 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 31.23 | 31.33 | 533 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 31.33 | 31.53 | 1,040 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 31.53 | 31.58 | 263 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 31.58 | 31.61 | 171 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 31.61 | 31.65 | 188 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 31.65 | 31.66 | 88 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 31.66 | 31.72 | 311 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 31.72 | 31.81 | 447 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 31.81 | 32.14 | 1,751 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 32.14 | 32.23 | 486 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 32.23 | 32.3 | 353 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 32.3 | 32.33 | 176 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 32.33 | 32.44 | 587 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 32.44 | 32.48 | 183 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 32.48 | 32.5 | 117 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 32.5 | 32.56 | 327 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 32.56 | 32.61 | 283 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| DaA | Dan River loam, 0 to 2 percent slopes, frequently flooded | 32.61 | 32.72 | 549 | No | 5 | 0.31 | Predominantly Non-Hydric | High | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 32.72 | 32.75 | 147 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 32.75 | 32.83 | 436 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 32.83 | 32.92 | 468 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 32.92 | 32.98 | 349 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HbA | Hatboro silt loam, 0 to 2 percent slopes, frequently flooded, long duration | 32.98 | 33.01 | 128 | No | 5 | 0.21 | Predominantly Hydric | High | >60 | No | No | Poorly drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 33.01 | 33.08 | 366 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HbA | Hatboro silt loam, 0 to 2 percent slopes, frequently flooded, long duration | 33.08 | 33.11 | 180 | No | 5 | 0.21 | Predominantly Hydric | High | >60 | No | No | Poorly drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 33.11 | 33.14 | 151 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 33.14 | 33.32 | 948 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 33.32 | 33.54 | 1,141 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| JkB | Jackland fine sandy loam, 2 to 8 percent slopes | 33.54 | 33.59 | 267 | Yes | 3 | 0.3 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 33.59 | 33.74 | 800 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| DeD | Devotion fine sandy loam, 6 to 15 percent slopes | 33.74 | 33.79 | 290 | No | 3 | 0.27 | Non-Hydric | Moderate | 25.2 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 33.79 | 33.83 | 190 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| DeD | Devotion fine sandy loam, 6 to 15 percent slopes | 33.83 | 33.89 | 308 | No | 3 | 0.27 | Non-Hydric | Moderate | 25.2 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 33.89 | 33.94 | 257 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 33.94 | 33.96 | 133 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 33.96 | 33.99 | 137 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 33.99 | 34.15 | 843 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 34.15 | 34.21 RR | 309 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 34.21 RR | 34.32 | 661 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 34.32 | 34.34 | 97 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 34.34 | 34.45 | 584 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 34.45 | 34.53 | 395 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 34.53 | 34.77 | 1,274 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 34.77 | 34.84 | 382 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 34.84 | 34.94 | 500 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 34.94 | 35 | 316 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 35 | 35.03 | 170 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 35.03 | 35.1 | 400 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 35.1 | 35.23 | 673 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 35.23 | 35.31 | 420 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 35.31 | 35.38 | 379 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 35.38 | 35.46 | 406 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 35.46 | 35.58 | 641 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 35.58 | 35.73 | 796 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 35.73 | 35.77 | 175 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 35.77 | 35.8 | 170 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 35.8 | 35.91 | 612 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 35.91 | 36.08 | 854 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 36.08 | 36.21 | 727 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 36.21 | 36.25 | 172 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 36.25 | 36.68 | 2,316 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 36.68 | 36.79 | 560 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 36.79 | 36.86 | 394 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 36.86 | 37.06 | 1,036 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 37.06 | 37.11 | 239 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 37.11 | 37.19 | 415 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 37.19 | 37.21 | 129 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 37.21 | 37.32 | 562 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 37.32 | 37.34 | 131 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 37.34 | 37.39 | 253 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 37.39 | 37.55 | 846 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| PpE2 | Poplar Forest sandy clay loam, 15 to 25 percent slopes, moderately eroded | 37.55 | 37.6 | 257 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Ud | Udorthents, loamy | 37.6 | 37.67 | 402 | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PpE2 | Poplar Forest sandy clay loam, 15 to 25 percent slopes, moderately eroded | 37.67 | 37.72 | 243 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 37.72 | 37.77 | 250 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 37.77 | 37.98 | 1,143 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CfB | Clifford sandy loam, 2 to 8 percent slopes | 37.98 | 38.03 | 228 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 38.03 | 38.17 RR | 744 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 38.17 RR | 38.22 | 291 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| PpE2 | Poplar Forest sandy clay loam, 15 to 25 percent slopes, moderately eroded | 38.22 | 38.37 | 815 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 38.37 | 38.5 | 646 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 38.5 | 38.55 | 264 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PpB2 | Poplar Forest sandy clay loam, 2 to 8 percent slopes, moderately eroded | 38.55 | 38.57 | 113 | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 38.57 | 38.59 | 122 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 38.59 | 38.78 | 1,001 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 38.78 | 38.84 | 333 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 38.84 | 38.86 | 103 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 38.86 | 38.94 | 396 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 38.94 | 38.99 | 260 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 38.99 | 39.02 | 188 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 39.02 | 39.07 | 235 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 39.07 | 39.14 | 372 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 39.14 | 39.17 | 194 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 39.17 | 39.25 | 404 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| DeD | Devotion fine sandy loam, 6 to 15 percent slopes | 39.25 | 39.37 | 616 | No | 3 | 0.27 | Non-Hydric | Moderate | 25.2 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | 39.37 | 39.46 | 469 | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 39.46 | 39.65 | 1,044 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | 39.65 | 39.84 | 969 | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| ChC | Clifford-Urban land complex, 2 to 10 percent slopes | 39.84 | 39.93 | 466 | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Ur | Urban land | 39.93 | 40.13 | 1,090 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|----------------------|---------------------------|------------------------------|----------------|---------------------|----------------|
| CaD | Casville sandy loam, 8 to 15 percent slopes | 40.13 | 40.13 | 12 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 40.13 | 40.27 RR | 708 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 40.27 RR | 40.49 RR | 1,145 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 40.49 RR | 40.51 RR | 118 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 40.51 RR | 40.51 | 343 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 40.51 | 40.52 | 19 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 40.52 | 40.54 | 101 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 40.54 | 40.62 | 452 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 40.62 | 40.71 | 461 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 40.71 | 40.72 | 51 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 40.72 | 40.83 | 608 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | 40.83 | 41.11 | 1,459 | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HbA | Hatboro silt loam, 0 to 2 percent slopes, frequently flooded, long duration | 41.11 | 41.18 | 374 | No | 5 | 0.21 | Predominantly Hydric | High | >60 | No | No | Poorly drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 41.18 | 41.26 | 402 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 41.26 | 41.32 | 323 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 41.32 | 41.41 | 456 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 41.41 | 41.45 | 247 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 41.45 | 41.52 | 374 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 41.52 | 41.83 | 1,595 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 41.83 | 42.08 | 1,348 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 42.08 | 42.11 | 144 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 42.11 | 42.16 | 293 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 42.16 | 42.21 | 225 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 42.21 | 42.31 | 553 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 42.31 | 42.45 | 719 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 42.45 | 42.5 | 260 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 42.5 | 42.63 | 713 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| PpB2 | Poplar Forest sandy clay loam, 2 to 8 percent slopes, moderately eroded | 42.63 | 42.7 | 385 | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| PpD2 | Poplar Forest sandy clay loam, 8 to 15 percent slopes, moderately eroded | 42.7 | 42.82 | 623 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PpB2 | Poplar Forest sandy clay loam, 2 to 8 percent slopes, moderately eroded | 42.82 | 42.85 | 144 | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| PpD2 | Poplar Forest sandy clay loam, 8 to 15 percent slopes, moderately eroded | 42.85 | 42.87 | 125 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| PoE | Poplar Forest sandy loam, 15 to 35 percent slopes | 42.87 | 42.88 | 36 | No | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 42.88 | 42.93 | 281 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| PpD2 | Poplar Forest sandy clay loam, 8 to 15 percent slopes, moderately eroded | 42.93 | 43.04 | 545 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PoE | Poplar Forest sandy loam, 15 to 35 percent slopes | 43.04 | 43.13 | 515 | No | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PpB2 | Poplar Forest sandy clay loam, 2 to 8 percent slopes, moderately eroded | 43.13 | 43.17 | 206 | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| PpD2 | Poplar Forest sandy clay loam, 8 to 15 percent slopes, moderately eroded | 43.17 | 43.21 | 213 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 43.21 | 43.29 | 395 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 43.29 | 43.36 | 378 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 43.36 | 43.46 | 553 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 43.46 | 43.51 | 243 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 43.51 | 43.6 | 473 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 43.6 | 43.64 | 187 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | 43.64 | 43.67 | 182 | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | 43.67 | 43.75 | 398 | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 43.75 | 43.79 | 237 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 43.79 | 43.87 | 418 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 43.87 | 43.92 | 291 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 43.92 | 43.97 | 216 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 43.97 | 44.06 | 512 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 44.06 | 44.09 | 168 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 44.09 | 44.15 | 307 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 44.15 | 44.21 | 297 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 44.21 | 44.45 | 1,268 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 44.45 | 44.51 | 305 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 44.51 | 44.58 | 399 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 44.58 | 44.64 | 301 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 44.64 | 44.76 | 631 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 44.76 | 45.34 | 3,067 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| DcB | Davie sandy loam, 2 to 8 percent slopes | 45.34 | 45.41 | 368 | Yes | 3 | 0.28 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| JkD | Jackland fine sandy loam, 8 to 15 percent slopes | 45.41 | 45.47 | 325 | No | 3 | 0.3 | Non-Hydric | Moderate | >60 | No | Yes | Somewhat poorly drained |
| DcB | Davie sandy loam, 2 to 8 percent slopes | 45.47 | 45.55 | 421 | Yes | 3 | 0.28 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|----------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| JkD | Jackland fine sandy loam, 8 to 15 percent slopes | 45.55 | 45.57 | 123 | No | 3 | 0.3 | Non-Hydric | Moderate | >60 | No | Yes | Somewhat poorly drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 45.57 | 45.72 | 768 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 45.72 | 45.76 | 229 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 45.76 | 45.86 | 534 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 45.86 | 45.93 | 352 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 45.93 | 45.96 | 163 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 45.96 | 45.96 | 8 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| OkB2 | Oak Level sandy clay loam, 2 to 8 percent slopes, moderately eroded | 45.96 | 45.98 RR | 84 | Yes | 6 | 0.29 | Non-Hydric | High | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 45.98 RR | 46 RR | 98 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 46 RR | 46.1 RR | 548 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 46.1 RR | 46.16 RR | 299 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 46.16 RR | 46.25 RR | 466 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 46.25 RR | 46.3 RR | 264 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 46.3 RR | 46.33 | 148 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 46.33 | 46.36 | 147 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 46.36 | 46.52 | 869 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| OkB2 | Oak Level sandy clay loam, 2 to 8 percent slopes, moderately eroded | 46.52 | 46.63 | 592 | Yes | 6 | 0.29 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 46.63 | 46.67 | 187 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 46.67 | 46.8 | 721 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 46.8 | 46.83 | 158 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 46.83 | 46.88 | 259 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 46.88 | 46.93 | 225 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HbA | Hatboro silt loam, 0 to 2 percent slopes, frequently flooded, long duration | 46.93 | 47.01 | 434 | No | 5 | 0.21 | Predominantly Hydric | High | >60 | No | No | Poorly drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 47.01 | 47.08 | 390 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 47.08 | 47.33 | 1,287 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 47.33 | 47.48 | 806 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 47.48 | 47.51 | 171 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 47.51 | 47.58 | 369 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | 47.58 | 47.63 | 245 | No | 3 | 0.22 | Non-Hydric | High | 15.0 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | 47.63 | 47.73 | 530 | No | 3 | 0.22 | Non-Hydric | Moderate | 15.0 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | 47.73 | 47.75 | 121 | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 47.75 | 47.79 | 223 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 47.79 | 47.9 | 576 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 47.9 | 47.96 | 328 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 47.96 | 48.02 | 276 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 48.02 | 48.02 | 35 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 48.02 | 48.02 | 12 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | 48.02 | 48.04 | 61 | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | 48.04 | 48.55 | 2,736 | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| HaB | Halifax sandy loam, 2 to 8 percent slopes | 48.55 | 48.61 | 281 | Yes | 3 | 0.22 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 48.61 | 48.66 | 269 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HaB | Halifax sandy loam, 2 to 8 percent slopes | 48.66 | 48.68 | 92 | Yes | 3 | 0.22 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CaB | Casville sandy loam, 2 to 8 percent slopes | 48.68 | 49.24 | 2,960 | Yes | 3 | 0.26 | Non-Hydric | High | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | 49.24 | 49.3 | 327 | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 49.3 | 49.67 | 1,987 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 49.67 | 49.84 RR | 884 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 8 percent slopes | 49.84 RR | 49.94 RR | 506 | Yes | 3 | 0.22 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 49.94 RR | 50.06 RR | 652 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 8 percent slopes | 50.06 RR | 50.17 RR | 548 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 50.17 RR | 50.23 RR | 357 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 8 percent slopes | 50.23 RR | 50.44 RR | 1,119 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 50.44 RR | 50.52 RR | 411 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 8 percent slopes | 50.52 RR | 50.69 RR | 862 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 50.69 RR | 50.76 RR | 410 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CeA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 50.76 RR | 50.81 RR | 238 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 50.81 RR | 50.98 RR | 893 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 50.98 RR | 51.18 RR | 1,070 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| MkB2 | Mecklenburg sandy clay loam, 2 to 8 percent slopes, moderately eroded | 51.18 RR | 51.25 RR | 363 | Yes | 6 | 0.29 | Non-Hydric | High | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | 51.25 RR | 51.3 RR | 280 | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| MkB2 | Mecklenburg sandy clay loam, 2 to 8 percent slopes, moderately eroded | 51.3 RR | 51.32 RR | 119 | Yes | 6 | 0.29 | Non-Hydric | High | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | 51.32 RR | 51.44 RR | 618 | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 51.44 RR | 51.98 | 3,000 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|---------------------------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 51.98 | 52.07 RR | 456 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 52.07 RR | 52.1 RR | 187 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 52.1 RR | 52.19 RR | 460 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 8 percent slopes | 52.19 RR | 52.16 | 97 | Yes | 3 | 0.22 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 52.16 | 52.17 | 20 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 52.17 | 52.36 RR | 1,025 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 52.36 RR | 52.42 RR | 314 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 52.42 RR | 52.48 RR | 297 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | 52.48 RR | 52.51 | 271 | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 52.51 | 52.56 | 258 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | 52.56 | 52.59 | 146 | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | 52.59 | 52.59 | 3 | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | 52.59 | 52.63 | 224 | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Alamance County, North Carolina | | | | | | | | | | | | | |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 52.63 | 52.68 | 245 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 52.68 | 52.74 | 296 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 52.74 | 52.77 | 172 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 52.77 | 52.83 | 314 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 52.83 | 53.07 | 1,262 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 53.07 | 53.09 | 118 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 53.09 | 53.18 | 483 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 53.18 | 53.21 | 179 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 53.21 | 53.31 | 480 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 53.31 | 53.34 | 186 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 53.34 | 53.51 | 922 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 53.51 | 53.53 | 94 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 53.53 | 53.6 | 330 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 53.6 | 53.63 | 163 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 53.63 | 53.64 | 77 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 53.64 | 53.68 | 215 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| FgC | Frogsboro sandy loam, 6 to 10 percent slopes | 53.68 | 53.72 | 181 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |

REVISED [Oct 2019] - Table 7.2-2

Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 53.72 | 53.74 | 154 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 53.74 | 53.77 | 117 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 53.77 | 53.8 | 191 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 53.8 | 53.89 | 441 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 53.89 | 53.9 | 57 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 53.9 | 53.92 | 94 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 53.92 | 53.94 | 143 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 53.94 | 53.96 | 86 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 53.96 | 53.99 | 186 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FgC | Frogsboro sandy loam, 6 to 10 percent slopes | 53.99 | 54.05 | 297 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.05 | 54.07 | 115 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 54.07 | 54.14 | 369 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.14 | 54.15 | 23 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.15 | 54.16 | 48 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 54.16 | 54.18 | 143 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.18 | 54.21 | 141 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.21 | 54.24 | 170 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.24 | 54.28 | 231 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.28 | 54.3 | 81 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 54.3 | 54.33 | 174 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.33 | 54.41 | 386 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.41 | 54.45 | 248 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EsD | Enon loam, 10 to 15 percent slopes, very stony | 54.45 | 54.47 | 98 | No | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 54.47 | 54.51 | 207 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| EsD | Enon loam, 10 to 15 percent slopes, very stony | 54.51 | 54.53 | 117 | No | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.53 | 54.59 | 316 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 54.59 | 54.62 | 157 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| EsD | Enon loam, 10 to 15 percent slopes, very stony | 54.62 | 54.65 | 123 | No | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.65 | 54.66 | 96 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 54.66 | 54.79 | 662 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 54.79 | 54.85 | 314 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2

Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|---|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| EnD | Enon sandy loam, 10 to 15 percent slopes | 54.85 | 54.88 | 168 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 54.88 | 54.9 | 97 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 54.9 | 54.93 | 163 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 54.93 | 54.97 | 198 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcC | Cecil sandy loam, 6 to 10 percent slopes | 54.97 | 54.99 | 107 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 54.99 | 55.25 RR | 1,382 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 55.25 RR | 55.29 RR | 193 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 55.29 RR | 55.3 RR | 90 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 55.3 RR | 55.32 RR | 85 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 55.32 RR | 55.37 RR | 293 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 55.37 RR | 55.45 RR | 422 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | 55.45 RR | 55.54 RR | 460 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 55.54 RR | 55.62 RR | 404 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | 55.62 RR | 55.64 RR | 134 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 55.64 RR | 55.51 | 474 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 55.51 | 55.56 | 219 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 55.56 | 55.6 | 260 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 55.6 | 55.8 | 1,029 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | 55.8 | 55.8 | 3 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaE | Pacolet sandy loam, 15 to 45 percent slopes | 55.8 | 55.82 | 99 | No | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| LoE | Louisburg coarse sandy loam, 15 to 45 percent slopes | 55.82 | 55.85 | 149 | No | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 55.85 | 55.91 | 322 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 55.91 | 56.28 | 1,983 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 56.28 | 56.32 | 213 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 56.32 | 56.42 RR | 486 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 56.42 RR | 56.44 RR | 134 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 56.44 RR | 56.55 RR | 615 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 56.55 RR | 56.69 RR | 744 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 56.69 RR | 56.71 RR | 112 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 56.71 RR | 56.73 RR | 96 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 56.73 RR | 56.81 | 709 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 56.81 | 57.04 | 1,190 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 57.04 | 57.05 | 45 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 57.05 | 57.12 | 386 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 57.12 | 57.15 | 187 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 57.15 | 57.19 | 175 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 57.19 | 57.26 | 374 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 57.26 | 57.33 | 398 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 57.33 | 57.44 | 562 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 57.44 | 57.56 | 614 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 57.56 | 57.85 | 1,568 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 57.85 | 57.88 | 124 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 57.88 | 57.91 | 187 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | 57.91 | 58 | 458 | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58 | 58 | 26 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 58 | 58.03 | 150 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58.03 | 58.04 | 48 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 58.04 | 58.08 | 183 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58.08 | 58.11 | 195 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 58.11 | 58.15 | 225 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58.15 | 58.27 | 611 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 58.27 | 58.28 | 43 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58.28 | 58.47 | 1,030 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 58.47 | 58.51 | 208 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 58.51 | 58.62 RR | 542 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 58.62 RR | 58.65 RR | 184 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 58.65 RR | 58.67 RR | 123 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 58.67 RR | 58.69 RR | 108 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 58.69 RR | 58.85 | 1,052 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 58.85 | 59 RR | 815 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 59 RR | 59.35 RR | 1,846 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 59.35 RR | 59.39 RR | 201 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 59.39 RR | 59.44 RR | 259 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 59.44 RR | 59.5 RR | 341 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 59.5 RR | 59.6 | 385 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 59.6 | 59.63 | 144 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 59.63 | 59.63 | 9 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 59.63 | 59.65 | 95 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 59.65 | 59.68 | 182 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 59.68 | 59.81 | 697 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 59.81 | 60.05 | 1,258 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 60.05 | 60.22 | 877 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 60.22 | 60.67 | 2,406 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 60.67 | 60.68 | 26 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 60.68 | 60.72 RR | 218 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 60.72 RR | 60.76 RR | 232 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 60.76 RR | 60.82 RR | 328 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 60.82 RR | 60.84 RR | 100 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 60.84 RR | 60.86 RR | 82 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 60.86 RR | 60.91 | 422 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 60.91 | 60.95 | 235 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 60.95 | 61.01 | 320 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 61.01 | 61.08 | 351 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 61.08 | 61.1 | 94 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 61.1 | 61.15 | 283 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| IrB | Iredell loam, 2 to 6 percent slopes | 61.15 | 61.31 | 820 | Yes | 3 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 61.31 | 61.36 | 296 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 61.36 | 61.67 | 1,605 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 61.67 | 61.76 | 492 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 61.76 | 61.83 | 352 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 61.83 | 61.9 | 405 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 61.9 | 61.93 | 141 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 61.93 | 61.95 | 82 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| IrB | Iredell loam, 2 to 6 percent slopes | 61.95 | 61.99 | 224 | Yes | 3 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 61.99 | 62.13 | 771 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 62.13 | 62.32 RR | 1,005 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 62.32 RR | 62.33 RR | 37 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 62.33 RR | 62.38 RR | 246 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 62.38 RR | 62.38 RR | 6 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 62.38 RR | 62.39 RR | 80 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 62.39 RR | 62.44 RR | 244 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 62.44 RR | 62.52 RR | 403 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 62.52 RR | 62.54 RR | 118 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 62.54 RR | 62.56 RR | 121 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 62.56 RR | 62.58 | 518 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 62.58 | 62.63 | 306 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 62.63 | 62.69 | 312 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 62.69 | 62.72 | 147 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 62.72 | 63 RR | 1,490 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 63 RR | 63.09 RR | 479 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 63.09 RR | 63.22 RR | 681 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 63.22 RR | 63.27 RR | 275 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 63.27 RR | 63.32 RR | 247 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 63.32 RR | 63.34 RR | 106 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 63.34 RR | 63.37 RR | 139 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| LoE | Louisburg coarse sandy loam, 15 to 45 percent slopes | 63.37 RR | 63.44 RR | 368 | No | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 63.44 RR | 63.35 | 299 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 63.35 | 63.45 | 557 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 63.45 | 63.46 | 57 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 63.46 | 63.51 | 246 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 63.51 | 63.55 | 225 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 63.55 | 63.59 | 188 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| W | Water | 63.59 | 63.64 | 273 | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 63.64 | 63.69 | 256 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| EnC | Enon sandy loam, 6 to 10 percent slopes | 63.69 | 63.73 | 247 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 63.73 | 63.78 | 232 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 63.78 | 63.85 | 351 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 63.85 | 63.85 | 1 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 63.85 | 63.85 | 46 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 63.85 | 63.9 | 231 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 63.9 | 64 RR | 558 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 64 RR | 64.01 RR | 8 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 64.01 RR | 64.03 RR | 110 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 64.03 RR | 64.06 RR | 202 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 64.06 RR | 64.09 RR | 141 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 64.09 RR | 64.11 | 202 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 64.11 | 64.32 | 1,115 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 64.32 | 64.4 | 395 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 64.4 | 64.42 | 100 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 64.42 | 64.52 | 557 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 64.52 | 64.58 | 312 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 64.58 | 64.67 | 456 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 64.67 | 64.7 | 151 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 64.7 | 64.95 RR | 1,363 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 64.95 RR | 64.97 RR | 66 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 64.97 RR | 65.03 RR | 307 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 65.03 RR | 65.09 RR | 329 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.09 RR | 65.1 RR | 88 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 65.1 RR | 65.12 RR | 89 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 65.12 RR | 65.16 RR | 220 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 65.16 RR | 65.26 RR | 516 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 65.26 RR | 65.3 RR | 234 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 65.3 RR | 65.41 RR | 534 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 65.41 RR | 65.48 RR | 374 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 65.48 RR | 65.51 RR | 166 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.51 RR | 65.56 RR | 265 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 65.56 RR | 65.52 | 268 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.52 | 65.53 | 51 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 65.53 | 65.58 | 279 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.58 | 65.64 | 302 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 65.64 | 65.64 | 10 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.64 | 65.68 | 229 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| IrB | Iredell loam, 2 to 6 percent slopes | 65.68 | 65.82 | 746 | Yes | 3 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 65.82 | 65.86 | 180 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 65.86 | 65.96 RR | 554 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 65.96 RR | 65.98 RR | 66 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 65.98 RR | 66 RR | 128 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 66 RR | 66.02 RR | 103 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| VaB | Vance sandy loam, 2 to 6 percent slopes | 66.02 RR | 66.28 RR | 1,396 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 66.28 RR | 66.32 RR | 214 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 66.32 RR | 66.48 RR | 811 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 66.48 RR | 66.56 RR | 429 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 66.56 RR | 66.6 RR | 208 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | 66.6 RR | 66.63 RR | 186 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| W | Water | 66.63 RR | 66.64 RR | 49 | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 66.64 RR | 66.72 RR | 403 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 66.72 RR | 66.79 RR | 378 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | 66.79 RR | 66.91 RR | 605 | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 66.91 RR | 66.94 RR | 209 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 66.94 RR | 67.02 RR | 375 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 67.02 RR | 67.07 RR | 310 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 67.07 RR | 67.19 RR | 617 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 67.19 RR | 67.4 RR | 1,095 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | 67.4 RR | 67.44 RR | 225 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 67.44 RR | 67.47 RR | 156 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| VaD | Vance sandy loam, 10 to 15 percent slopes | 67.47 RR | 67.51 RR | 188 | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|--------|-------------|------------------|---------------------------|------------------------------|----------------|---------------------|----------------|
| VaB | Vance sandy loam, 2 to 6 percent slopes | 67.51 RR | 67.55 RR | 244 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| VaC | Vance sandy loam, 6 to 10 percent slopes | 67.55 RR | 67.6 RR | 245 | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | 67.6 RR | 67.62 RR | 131 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 67.62 RR | 67.5 | 139 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | 67.5 | 67.54 | 237 | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 67.54 | 67.59 | 269 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 67.59 | 67.62 | 124 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 67.62 | 67.64 | 121 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 67.64 | 67.71 | 370 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 67.71 | 67.73 | 122 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 67.73 | 67.78 | 255 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | 67.78 | 67.84 | 326 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | 67.84 | 67.88 | 176 | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 10 to 15 percent slopes | 67.88 | 67.9 | 137 | Yes | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PaE | Pacolet sandy loam, 15 to 45 percent slopes | 67.9 | 67.93 | 134 | No | 3 | 0.33 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 67.93 | 67.97 | 207 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 67.97 | 68.06 | 496 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.06 | 68.08 | 110 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 68.08 | 68.14 | 331 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.14 | 68.19 | 233 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 68.19 | 68.24 | 281 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.24 | 68.3 | 330 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 68.3 | 68.33 | 139 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.33 | 68.37 | 240 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 68.37 | 68.39 | 71 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.39 | 68.43 | 234 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 68.43 | 68.48 | 228 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 68.48 | 68.6 | 640 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 68.6 | 68.63 | 168 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CuC2 | Cullen-Urban land complex, 6 to 10 percent slopes, moderately eroded | 68.63 | 68.64 | 75 | No | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 68.64 | 68.72 | 414 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.72 | 68.83 | 555 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | 68.83 | 68.86 | 159 | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 68.86 | 68.87 | 79 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 68.87 | 68.91 | 187 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 68.91 | 68.96 | 260 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| Ud | Udorthents, loamy 0 to 25 percent slopes | 68.96 | 69.03 | 394 | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 69.03 | 69.14 | 594 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 69.14 | 69.17 | 153 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 69.17 | 69.22 | 237 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 69.22 | 69.5 | 1,512 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 69.5 | 69.59 RR | 438 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Ur | Urban land | 69.59 RR | 69.65 RR | 335 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 69.65 RR | 69.72 RR | 392 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| Ur | Urban land | 69.72 RR | 69.8 RR | 384 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 69.8 RR | 69.84 RR | 246 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Ur | Urban land | 69.84 RR | 69.92 RR | 419 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| Ud | Udorthents, loamy 0 to 25 percent slopes | 69.92 RR | 69.95 RR | 150 | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 69.95 RR | 69.98 RR | 178 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 69.98 RR | 70.03 RR | 218 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.03 RR | 69.99 | 264 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 69.99 | 70.04 | 255 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 70.04 | 70.08 | 186 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.08 | 70.11 | 198 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 70.11 | 70.17 | 279 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 70.17 | 70.17 RR | 32 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.17 RR | 70.26 RR | 456 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 70.26 RR | 70.28 RR | 93 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.28 RR | 70.3 | 147 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.3 | 70.32 | 117 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 70.32 | 70.37 | 250 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 70.37 | 70.38 | 51 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.38 | 70.42 | 240 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.42 | 70.43 | 60 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | 70.43 | 70.5 | 324 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.5 | 70.51 | 87 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.51 | 70.55 | 220 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.55 | 70.64 | 467 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.64 | 70.72 | 400 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 70.72 | 70.75 | 158 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.75 | 70.77 | 138 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.77 | 70.79 | 99 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | 70.79 | 70.84 | 241 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 70.84 | 70.86 | 95 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 70.86 | 70.98 | 678 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 70.98 | 71.04 | 305 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 71.04 | 71.29 | 1,288 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 71.29 | 71.36 | 362 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| Ur | Urban land | 71.36 | 71.46 | 532 | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 71.46 | 71.73 | 1,472 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 71.73 | 71.77 | 191 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 71.77 | 71.93 | 830 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 71.93 | 71.96 RR | 152 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | 71.96 RR | 72.01 RR | 280 | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 72.01 RR | 72.07 | 409 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 72.07 | 72.09 | 80 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 72.09 | 72.12 | 156 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 72.12 | 72.24 | 670 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 72.24 | 72.28 | 164 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | 72.28 | 72.3 | 144 | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | 72.3 | 72.34 | 188 | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 72.34 | 72.41 | 356 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 72.41 | 72.44 | 187 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|--|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 72.44 | 72.57 | 665 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 72.57 | 72.6 | 196 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 72.6 | 72.67 | 349 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 72.67 | 72.67 | 5 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | 72.67 | 72.69 | 82 | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | 72.69 | 72.88 RR | 1,011 | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 72.88 RR | 72.93 RR | 289 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | 72.93 RR | 73.05 | 709 | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | 73.05 | 73.16 RR | 586 | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | 73.16 RR | 73.17 RR | 70 | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| Aboveground Facilities | | | | | | | | | | | | | |
| Pittsylvania County, Virginia | | | | | | | | | | | | | |
| <i>Lambert Compressor Station / Interconnect / Mainline valve 1 (MP 0.0RR)</i> | | | | | | | | | | | | | |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| <i>Mainline valves 2 and 3 MP 7.4 and 18.3</i> | | | | | | | | | | | | | |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| Contractor Yards | | | | | | | | | | | | | |
| 16B | Helena sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 16C | Helena sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 1B | Appling sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | NA | NA | NA | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 22B | Mattaponi sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 22C | Mattaponi sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 26D | Fairview fine sandy loam, 15 to 25 percent slopes | NA | NA | NA | Yes | 3 | 0.22 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|---------------------------------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| <i>Access Roads</i> | | | | | | | | | | | | | |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 39 | Udorthents, loamy | NA | NA | NA | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| 11B3 | Cullen clay loam, 2 to 7 percent slopes, severely eroded | NA | NA | NA | No | 6 | 0.27 | Non-Hydric | High | >60 | No | No | Well drained |
| 17B | Hiwassee loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 6 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| 18C3 | Hiwassee clay loam, 7 to 15 percent slopes, severely eroded | NA | NA | NA | No | 6 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 1B | Appling sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 1C | Appling sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 21D | Madison fine sandy loam, 15 to 25 percent slopes | NA | NA | NA | Yes | 3 | 0.37 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 22C | Mattaponi sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Low | >60 | No | No | Moderately well drained |
| 23B | Mayodan fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| 23C | Mayodan fine sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 23D | Mayodan fine sandy loam, 15 to 25 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 29D | Pinkston-Mayodan complex, 15 to 35 percent slopes, very stony | NA | NA | NA | No | 5 | 0.28 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 29E | Pinkston-Mayodan complex, 35 to 50 percent slopes, very stony | NA | NA | NA | No | 5 | 0.28 | Non-Hydric | Low | 18.1 | Yes | No | Excessively drained |
| 3B | Bolling fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| 4B | Clifford sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| 4C | Cecil sandy loam, 7 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5B3 | Cecil sandy clay loam, 2 to 7 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 5C3 | Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded | NA | NA | NA | Yes | 5 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| 7A | Chenneby loam, 0 to 2 percent slopes, occasionally flooded | NA | NA | NA | Yes | 5 | 0.44 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 8A | Chenneby-Toccoa complex, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 5 | 0.38 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| 9B | Creedmoor fine sandy loam, 2 to 7 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Predominantly Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| Rockingham County, North Carolina | | | | | | | | | | | | | |
| <i>LN 3600 Interconnect (MP 28.2)</i> | | | | | | | | | | | | | |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | NA | NA | NA | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |

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Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|---|--|----------------|--------------|------------------------|--|--------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CmB | Clover sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| <i>T-15 Dan River Interconnect / Mainline Valve 4 (MP 30.4)</i> | | | | | | | | | | | | | |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | NA | NA | NA | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| <i>Mainline valve 5 (MP 42.2)</i> | | | | | | | | | | | | | |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | NA | NA | NA | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| <i>Contractor Yards</i> | | | | | | | | | | | | | |
| ChC | Clifford-Urban land complex, 2 to 10 percent slopes | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| LeB | Leaksville silt loam, 0 to 4 percent slopes | NA | NA | NA | No | 6 | 0.37 | Hydric | High | 24 | Yes | Yes | Poorly drained |
| SpB | Spray loam, 0 to 5 percent slopes | NA | NA | NA | No | 6 | 0.43 | Non-Hydric | High | >60 | Yes | No | Well drained |
| Ud | Udorthents, loamy | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| <i>Access Roads</i> | | | | | | | | | | | | | |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | NA | NA | NA | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| CmB | Clover sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmE | Clover sandy loam, 15 to 25 percent slopes | NA | NA | NA | No | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| BaB | Banister loam, 0 to 4 percent slopes, rarely flooded | NA | NA | NA | Yes | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| CaB | Casville sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.26 | Non-Hydric | High | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| CdB2 | Cecil sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| CeA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CfB | Clifford sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| CgB2 | Clifford sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.21 | Non-Hydric | High | >60 | No | No | Well drained |
| ChC | Clifford-Urban land complex, 2 to 10 percent slopes | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmB | Clover sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmD | Clover sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CmE | Clover sandy loam, 15 to 25 percent slopes | NA | NA | NA | No | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnB2 | Clover sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |

REVISED [Oct 2019] - Table 7.2-2

Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|---|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CnE2 | Clover sandy clay loam, 15 to 25 percent slopes, moderately eroded | NA | NA | NA | No | 5 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CsA | Codorus loam, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 6 | 0.41 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| DaA | Dan River loam, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 5 | 0.31 | Predominantly Non-Hydric | High | >60 | No | No | Well drained |
| FpE | Fairview-Poplar Forest complex, 15 to 25 percent slopes | NA | NA | NA | No | 3 | 0.21 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrD2 | Fairview-Poplar Forest complex, 8 to 15 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FrE2 | Fairview-Poplar Forest complex, 15 to 25 percent slopes, moderately eroded | NA | NA | NA | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HwD | Hiwassee loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 6 | 0.18 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| IrD | Iredell fine sandy loam, 8 to 15 percent slopes | NA | NA | NA | No | 3 | 0.3 | Non-Hydric | Moderate | >60 | No | Yes | Somewhat poorly drained |
| JkB | Jackland fine sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.3 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| NaB | Nathalie sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.18 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| OkB2 | Oak Level sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.29 | Non-Hydric | High | >60 | No | No | Well drained |
| PaD | Pacolet sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.19 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PcD2 | Pacolet sandy clay loam, 8 to 15 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.29 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| PpB2 | Poplar Forest sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.3 | Non-Hydric | High | >60 | No | No | Well drained |
| PpE2 | Poplar Forest sandy clay loam, 15 to 25 percent slopes, moderately eroded | NA | NA | NA | No | 5 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnB | Rhodhiss sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.25 | Non-Hydric | High | >60 | No | No | Well drained |
| RnD | Rhodhiss sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RnE | Rhodhiss sandy loam, 15 to 30 percent slopes | NA | NA | NA | No | 3 | 0.25 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| SmC | Siloam sandy loam, 4 to 10 percent slopes | NA | NA | NA | No | 3 | 0.22 | Non-Hydric | High | 15 | No | No | Well drained |
| SmF | Siloam sandy loam, 10 to 45 percent slopes | NA | NA | NA | No | 3 | 0.22 | Non-Hydric | Moderate | 15 | No | No | Well drained |
| SpB | Spray loam, 0 to 5 percent slopes | NA | NA | NA | No | 6 | 0.43 | Non-Hydric | High | >60 | Yes | No | Well drained |
| Ud | Udorthents, loamy | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| W | Water | NA | NA | NA | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |
| WhB | Wickham sandy loam, mesic, 1 to 4 percent slopes, rarely flooded | NA | NA | NA | Yes | 3 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Alamance County, North Carolina | | | | | | | | | | | | | |
| <i>Mainline valves 6 and 7 (MP 55.1 and 68.7)</i> | | | | | | | | | | | | | |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| <i>T-21 Haw River Interconnect / Mainline valve 8 (MP 73.2RR)</i> | | | | | | | | | | | | | |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| Access Roads | | | | | | | | | | | | | |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|-----------------|--|----------------|--------------|------------------------|--|---------|-------------|--------------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| EnB | Enon sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| Ud | Udorthents, loamy 0 to 25 percent slopes | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CcB | Cecil sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.22 | Non-Hydric | High | >60 | No | No | Well drained |
| CeB2 | Cecil sandy clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| CeC2 | Cecil sandy clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| ChA | Chewacla loam, 0 to 2 percent slopes, frequently flooded | NA | NA | NA | No | 5 | 0.26 | Predominantly Non-Hydric | High | >60 | No | No | Somewhat poorly drained |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| CnE2 | Cullen clay loam, 15 to 45 percent slopes, moderately eroded | NA | NA | NA | No | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| DAM | Dam | NA | NA | NA | No | Unknown | Unknown | Non-Hydric | Low | >60 | Unknown | Unknown | Unknown |
| EnB | Enon sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnC | Enon sandy loam, 6 to 10 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EnD | Enon sandy loam, 10 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| EoB2 | Enon clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EoC2 | Enon clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.28 | Non-Hydric | High | >60 | No | No | Well drained |
| EsD | Enon loam, 10 to 15 percent slopes, very stony | NA | NA | NA | No | 5 | 0.26 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| FgB | Frogsboro sandy loam, 2 to 6 percent slopes | NA | NA | NA | No | 3 | 0.26 | Non-Hydric | High | >60 | No | Yes | Somewhat poorly drained |
| HeB | Helena sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| HeC | Helena sandy loam, 6 to 10 percent slopes | NA | NA | NA | Yes | 3 | 0.27 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| IrB | Iredell loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.31 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| LoD | Louisburg coarse sandy loam, 10 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| RvA | Riverview loam, 0 to 2 percent slopes, occasionally flooded | NA | NA | NA | Yes | 5 | 0.39 | Non-Hydric | High | >60 | No | No | Well drained |
| RxE | Rowan-Poindexter complex, 15 to 45 percent slopes | NA | NA | NA | No | 3 | 0.35 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| Ud | Udorthents, loamy 0 to 25 percent slopes | NA | NA | NA | No | 5 | 0.2 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| Ur | Urban land | NA | NA | NA | No | Unknown | Unknown | Non-Hydric | High | >60 | Unknown | Unknown | Unknown |
| VaB | Vance sandy loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | High | >60 | No | No | Well drained |
| W | Water | NA | NA | NA | No | Unknown | Unknown | Non-Hydric | Unknown | >60 | Unknown | Unknown | Unknown |

REVISED [Oct 2019] - Table 7.2-2
Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland a/ | WEG b/ | K Factor c/ | Hydric Rating d/ | Revegetation Potential e/ | Depth to Bedrock (inches) f/ | Stony/Rocky g/ | Compaction Prone h/ | Drainage Class |
|---|--|----------------|--------------|------------------------|--|--------|-------------|------------------|---------------------------|------------------------------|----------------|---------------------|-------------------------|
| WtC | Wynott-Enon complex, 6 to 10 percent slopes | NA | NA | NA | Yes | 5 | 0.25 | Non-Hydric | High | 28 | No | No | Well drained |
| <i>Contractor Yards</i> | | | | | | | | | | | | | |
| CnB2 | Cullen clay loam, 2 to 6 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnC2 | Cullen clay loam, 6 to 10 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| CnD2 | Cullen clay loam, 10 to 15 percent slopes, moderately eroded | NA | NA | NA | Yes | 6 | 0.23 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| HnB | Herndon silt loam, 2 to 6 percent slopes | NA | NA | NA | Yes | 6 | 0.36 | Non-Hydric | High | >60 | No | No | Well drained |
| HnC | Herndon silt loam, 6 to 10 percent slopes | NA | NA | NA | Yes | 6 | 0.36 | Non-Hydric | High | >60 | No | No | Well drained |
| HnD | Herndon silt loam, 10 to 15 percent slopes | NA | NA | NA | Yes | 6 | 0.36 | Non-Hydric | Moderate | >60 | No | No | Well drained |
| WtB | Wynott-Enon complex, 2 to 6 percent slopes | NA | NA | NA | Yes | 5 | 0.25 | Non-Hydric | High | 28 | No | No | Well drained |
| WtC | Wynott-Enon complex, 6 to 10 percent slopes | NA | NA | NA | Yes | 5 | 0.25 | Non-Hydric | High | 28 | No | No | Well drained |
| WtD | Wynott-Enon complex, 10 to 15 percent slopes | NA | NA | NA | Yes | 5 | 0.25 | Non-Hydric | Moderate | 28 | No | No | Well drained |
| Caswell County, North Carolina | | | | | | | | | | | | | |
| <i>Contractor Yards</i> | | | | | | | | | | | | | |
| CaB | Casville sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| FbB2 | Fairview sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| HaC | Halifax sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| ReC | Rasalo-Enott complex, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.28 | Non-Hydric | Moderate | 48 | No | No | Well drained |
| SkE | Spriggs-Mocksville complex, 25 to 45 percent slopes | NA | NA | NA | No | 3 | 0.3 | Non-Hydric | Moderate | 29.9 | No | No | Well drained |
| <i>Access Roads</i> | | | | | | | | | | | | | |
| CaB | Casville sandy loam, 2 to 8 percent slopes | NA | NA | NA | Yes | 3 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| FbB2 | Fairview sandy clay loam, 2 to 8 percent slopes, moderately eroded | NA | NA | NA | Yes | 5 | 0.23 | Non-Hydric | High | >60 | No | No | Well drained |
| HaC | Halifax sandy loam, 8 to 15 percent slopes | NA | NA | NA | Yes | 3 | 0.24 | Non-Hydric | Moderate | >60 | No | No | Moderately well drained |
| Notes: | | | | | | | | | | | | | |
| NA = Not Applicable | | | | | | | | | | | | | |
| a/: Prime farmland and Farmland of Statewide Importance includes soils mapped and designated as prime farmland and farmland of statewide importance by the NRCS (SSURGO reference column "farmland"). Prime Farmland if drained and / or irrigated and / or reclaimed of excess salts and sodium is not included in this acreage. No areas of Farmland of local importance or unique farmland are affected by the Project. | | | | | | | | | | | | | |
| b/: WEGs (Wind Erodibility Groups) obtained from the NRCS Soil Data Mart. WEGs range from 1 to 8, with 1 being the highest potential for wind erosion, and 8 the lowest. Highly wind erodible soils include those in wind erodibility groups 1 or 2 (SSURGO reference column "weg"). | | | | | | | | | | | | | |
| c/: Water erosion potential was determined by averaging the K factor values of horizons of each soil type. Based on the average K factor, each soil type was grouped into a water erosion class of "Low", "Moderate", and "High". Highly water erodible soils include those with a K factor greater than 0.4. | | | | | | | | | | | | | |
| d/: "Urban Land" and "Udorthents" map units do not have a NRCS designated hydric soil status. These map units were considered to be non-hydric soils. Hydric Type is determined with Hydric Classification - Presence ("hydclprs") where if hydclprs of 0% is categorized as "Non-hydric". Values between 1% - 33% are categorized as "Predominantly Non-hydric", 34% - 66% as "Partially Hydric", 67% - 99% as "Predominantly Hydric", and 100% is categorized as "Hydric". | | | | | | | | | | | | | |
| e/: Revegetation Potential is determined by three parameters: drainage class, K factor, and slope, each parameter assigned a value of 1, 2, or 3, then averaged. Drainage classes of excessively drained and very poorly drained are designated low (1), somewhat excessively drained and poorly drained are designated moderate (2), and well drained, moderately well drained, and somewhat poorly drained are designated high (3). Low K factor (3), Moderate (2), and High (1). Slopes of 25% or more are low (1), 8%-25% are moderate (2), and slopes of less than 8% are high (3). The average of these three scores is then taken to determine the overall low, moderate, or high revegetation potential. 1.0-1.7 = Low, 1.8-2.3 = Moderate, 2.4-3.0 = High. | | | | | | | | | | | | | |
| f/: Depth to bedrock is not defined by the NRCS for the "Pavement and Buildings" map unit. In these cases, a depth to bedrock of >60" was assigned, which is consistent with NRCS designations for other natural and fill soils in the Project area. Shallow bedrock soils include those that have lithic or paralithic bedrock within 60 inches or less of the soil surface (SSURGO and STATGO2 reference column "rescind" and "resdept_r"). | | | | | | | | | | | | | |
| g/: Stony/Rocky soils include those with a cobble, stony, bouldery, shaly, channery, very gravelly, or extremely gravelly modifier to the textural class of the surface layer and / or that have a surface layer that contains greater than 5 percent by weight rock fragments larger than 3 inches. | | | | | | | | | | | | | |

REVISED [Oct 2019] - Table 7.2-2

Soil Types Crossed by the MVP Southgate Project

| Map Unit Symbol | Map Unit Name | Milepost Start | Milepost End | Crossing Length (feet) | Prime Farmland, Farmland of Statewide Importance & Local Farmland <u>a/</u> | WEG <u>b/</u> | K Factor <u>c/</u> | Hydric Rating <u>d/</u> | Revegetation Potential <u>e/</u> | Depth to Bedrock (inches) <u>f/</u> | Stony/Rocky <u>g/</u> | Compaction Prone <u>h/</u> | Drainage Class |
|---|---------------|----------------|--------------|------------------------|---|---------------|--------------------|-------------------------|----------------------------------|-------------------------------------|-----------------------|----------------------------|----------------|
| <p>h/: Compaction prone was determined by texture and drainage class. Compaction prone soils are those with clay loam or finer texture, and somewhat poor, poor, and very poor drainage class (SSURGO reference column "texcl" and "drainagecl").</p> <p>i/: Mileposts represent soil types crossed by the pipeline alignment only. A summary of limitations associated with all soil types affected by the Project workspace areas is included in Table 7.2-1.</p> | | | | | | | | | | | | | |

| REVISED [Oct 2019] - Table 7.3-1 | | | | | | | | |
|--|---|---------------------|--|-----------|---|-----------|--|-----------|
| Prime Farmland Affected by the MVP Southgate Project | | | | | | | | |
| Facility, County, State | Area of Project Workspace within Prime Farmland Areas (Acres) <u>a/</u> | | | | | | | |
| | Mapped Prime Farmland <u>b/</u> | | Prime Farmland currently in agricultural use <u>c/</u> | | Mapped Farmland of Statewide Importance <u>d/</u> | | Farmland of Statewide Importance currently in agricultural use <u>e/</u> | |
| | Construction <u>f/</u> | Operation <u>g/</u> | Construction | Operation | Construction | Operation | Construction | Operation |
| H-605 Pipeline | | | | | | | | |
| Pittsylvania, Virginia | 6.4 | 2.2 | 1.0 | 0.6 | 1.5 | 0.5 | 0.0 | 0.0 |
| H-650 Pipeline | | | | | | | | |
| Pittsylvania, Virginia | 89.5 | 33.8 | 14.7 | 5.2 | 270.7 | 102.3 | 51.3 | 20.5 |
| Rockingham, North Carolina | 158.5 | 56.3 | 46.8 | 14.2 | 102.2 | 39.4 | 1.2 | 0.4 |
| Alamance, North Carolina | 146.8 | 54.0 | 33.2 | 11.7 | 137.3 | 51.3 | 12.4 | 4.1 |
| Cathodic Protection Groundbeds | | | | | | | | |
| Pittsylvania, Virginia | 0.3 | 0.3 | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 |
| Rockingham, North Carolina | <0.1 | <0.1 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alamance, North Carolina | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Aboveground Facilities | | | | | | | | |
| Pittsylvania, Virginia | | | | | | | | |
| Lambert Compressor Station / Interconnect / MLV 1 (MP 0.0) | 16.1 | 6.6 | 12.2 | 6.1 | 3.0 | 2.0 | 0.5 | 0.2 |
| MLVs 2 and 3 (MPs 7.4 and 18.3) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.0 | 0.0 |
| Contractor Yards | 54.7 | 0.0 | 0.0 | 0.0 | 43.4 | 0.0 | 0.0 | 0.0 |
| Access Roads | 14.8 | 1.9 | 1.4 | 0.7 | 20.3 | 0.4 | 2.7 | 0.1 |
| Rockingham, North Carolina | | | | | | | | |
| LN 3600 Interconnect (MP 28.2) | 4.4 | 0.8 | <0.1 | 0.0 | 0.2 | <0.1 | 0.0 | 0.0 |
| T-15 Dan River Interconnect / MLV 4 (MP 30.4) | 5.1 | 0.8 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MLV 5 (MP 42.2) | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Contractor Yards | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Access Roads | 21.1 | 1.9 | 2.9 | <0.1 | 7.7 | 1.0 | 0.5 | 0.0 |

| REVISED [Oct 2019] - Table 7.3-1 | | | | | | | | |
|--|---|---------------------|--|-------------|---|--------------|--|-------------|
| Prime Farmland Affected by the MVP Southgate Project | | | | | | | | |
| Facility, County, State | Area of Project Workspace within Prime Farmland Areas (Acres) <u>a/</u> | | | | | | | |
| | Mapped Prime Farmland <u>b/</u> | | Prime Farmland currently in agricultural use <u>c/</u> | | Mapped Farmland of Statewide Importance <u>d/</u> | | Farmland of Statewide Importance currently in agricultural use <u>e/</u> | |
| | Construction <u>f/</u> | Operation <u>g/</u> | Construction | Operation | Construction | Operation | Construction | Operation |
| Alamance County, North Carolina | | | | | | | | |
| T-21 Haw River Interconnect (MP 73.1) / MLV 8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.6 | 0.0 | 0.0 |
| MLVs 6 and 7 (MPs 55.1 and 68.7) | <0.0 | <0.1 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Contractor Yards | 7.6 | 0.0 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 |
| Access Roads | 8.9 | 0.2 | 0.6 | <0.1 | 9.2 | 0.1 | 1.1 | 0.0 |
| Caswell County, North Carolina | | | | | | | | |
| Contractor Yards | 19.3 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| Access Roads | 0.8 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Project Total <u>h/</u> | 555.1 | 159.4 | 112.9 | 38.6 | 616.7 | 198.5 | 69.7 | 25.3 |
| <p>Note: Pig launchers and receivers will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for the pig launchers and receivers are included with those facilities. Mainline Valves ("MLVs") 1, 4, and 8 will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for these MLVs are included with those facilities.</p> <p>a/ No areas of Farmland of local importance or unique farmland are affected by the Project.</p> <p>b/ Prime farmland includes soils mapped and designated as prime farmland by the NRCS. Prime Farmland if drained and / or irrigated and / or reclaimed of excess salts and sodium is not included in this acreage (SSURGO reference column "farmlands").</p> <p>c/ Agricultural land (i.e., cultivated land identified in Resource Report 8) within areas identified as Prime Farmland. Numbers represent actual land in agricultural use.</p> <p>d/ Farmland of Statewide Importance includes soils mapped and designated as farmland of statewide importance by the NRCS (SSURGO reference column "farmIndcl"). Farmland of statewide importance are mapped by SSURGO and determined by the appropriate State agencies which may include areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods.</p> <p>e/ Agricultural land (i.e., cultivated land identified in Resource Report 8) within areas identified as Farmland of Statewide Importance. Numbers represent actual land in agricultural use.</p> <p>f/ Construction acres includes the area affected by construction (i.e., temporary and additional temporary workspace, contractor yards, and access roads) and the area affected by operation of the Project (i.e., facility operation footprint and 50-foot pipeline permanent right-of-way). The 50-foot-wide permanent right-of-way between horizontal directional drill entry and exit points and railroad rights-of-way are not included in this acreage. Acreage includes a five-foot path between the HDD entry and exit workspace areas to allow for placement of the HDD guide wire.</p> <p>g/ Includes only the operation footprint of the Project facilities and the 50-foot-wide permanent pipeline right-of-way.</p> <p>h/ Sums may not equal addends due to rounding. Addends consist of six-decimal digits.</p> | | | | | | | | |

| REVISED [Oct 2019] - Table 113-1 | | | | |
|--|---|--|---|--|
| Prime Farmland Permanently Affected by the MVP Southgate Project | | | | |
| Facility, County, State | Area of Project Workspace within Prime Farmland Areas (Acres) <u>a/</u> | | | |
| | Mapped Prime Farmland <u>b/</u> | Prime Farmland currently in agricultural use <u>c/</u> | Mapped Farmland of Statewide Importance <u>d/</u> | Farmland of Statewide Importance currently in agricultural use <u>e/</u> |
| Aboveground Facilities | | | | |
| Pittsylvania, Virginia | | | | |
| Lambert Compressor Station / Interconnect / MLV 1 (MP 0.0) | 6.6 | 6.1 | 2.0 | 0.2 |
| MLVs 2 and 3 (MPs 7.4 and 18.3) | <0.1 | <0.1 | <0.1 | 0.0 |
| Permanent Access Roads | 1.9 | 0.7 | 0.4 | 0.1 |
| Rockingham, North Carolina | | | | |
| LN 3600 Interconnect (MP 28.2) | 0.8 | 0.0 | <0.1 | 0.0 |
| T-15 Dan River Interconnect / MLV 4 (MP 30.4) | 0.8 | 0.0 | 0.0 | 0.0 |
| MLV 5 (MP 42.2) | <0.1 | 0.0 | 0.0 | 0.0 |
| Permanent Access Roads | 1.9 | <0.1 | 1.0 | 0.0 |
| Alamance County, North Carolina | | | | |
| T-21 Haw River Interconnect (MP 73.1) / MLV 8 | 0.0 | 0.0 | 0.6 | 0.0 |
| MLVs 6 and 7 (MPs 55.1 and 68.2) | <0.1 | <0.1 | 0.0 | 0.0 |
| Permanent Access Roads | 0.2 | <0.1 | 0.1 | 0.0 |
| Caswell County, North Carolina | | | | |
| None | | | | |
| Project Total <u>f/</u> | 12.3 | 6.8 | 4.2 | 0.3 |
| <p>Note: Pig launchers and receivers will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for the pig launchers and receivers are included with those facilities. Mainline Valves ("MLVs") 1, 4, and 8 will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for these MLVs are included with those facilities.</p> <p><u>a/</u> No areas of Farmland of local importance or unique farmland are affected by the Project. Includes only the operation footprint of the Project facilities, permanent access roads, and the 50-foot-wide permanent pipeline right-of-way.</p> <p><u>b/</u> Prime farmland includes soils mapped and designated as prime farmland by the NRCS. Prime Farmland if drained and / or irrigated and / or reclaimed of excess salts and sodium is not included in this acreage (SSURGO reference column "farmlands").</p> <p><u>c/</u> Agricultural land (i.e., cultivated land identified in Resource Report 8) within areas identified as Prime Farmland. Numbers represent actual land in agricultural use.</p> <p><u>d/</u> Farmland of Statewide Importance includes soils mapped and designated as farmland of statewide importance by the NRCS (SSURGO reference column "farmland"). Farmland of statewide importance are mapped by SSURGO and determined by the appropriate State agencies which may include areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods.</p> <p><u>e/</u> Agricultural land (i.e., cultivated land identified in Resource Report 8) within areas identified as Farmland of Statewide Importance. Numbers represent actual land in agricultural use.</p> <p><u>f/</u> Sums may not equal addends due to rounding. Addends consist of six-decimal digits.</p> | | | | |



MVP Southgate Project

Docket No. CP19-14-000

Resource Report 8 Table Updates

October 2019

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|---|------------------|--|-----------|--------------------------------|-----------|----------------------------|-----------|---------------------------------------|----------|-----------------------|----------|----------------------------|----------|---------------------------|----------|--------------------------|----------|---------------------|
| Land Uses Crossed by the Southgate Project Pipeline | | | | | | | | | | | | | | | | | | |
| Facility | County, State | Upland Forest / Woodland ^{a/} | | Upland Open Land ^{b/} | | Agricultural ^{c/} | | Commercial / Industrial ^{d/} | | Wetland ^{e/} | | Silviculture ^{f/} | | Residential ^{g/} | | Open Water ^{h/} | | Total ^{i/} |
| | | Miles | % | Miles | % | Miles | % | Miles | % | Miles | % | Miles | % | Miles | % | Miles | % | Miles |
| H-605 Pipeline | Pittsylvania, VA | 0.3 | 60 | 0.1 | 16 | 0.1 | 23 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.5 |
| H-650 Pipeline | Pittsylvania, VA | 12.2 | 46 | 7.9 | 30 | 4.3 | 16 | 0.2 | 1 | 1.3 | 5 | 0.1 | 0 | 0.2 | 1 | 0.1 | 1 | 26.4 |
| | Rockingham, NC | 16.2 | 61 | 5.6 | 21 | 3.1 | 12 | 0.5 | 2 | 0.8 | 3 | 0.2 | 1 | 0.0 | 0 | 0.2 | 1 | 26.7 |
| | Alamance, NC | 10.8 | 50 | 6.5 | 30 | 2.8 | 13 | 0.3 | 1 | 0.3 | 2 | 0.4 | 2 | 0.2 | 1 | 0.1 | 1 | 21.5 |
| TOTAL | | 39.5 | 53 | 20.2 | 27 | 10.2 | 14 | 1.0 | 1 | 2.4 | 3 | 0.8 | 1 | 0.5 | 1 | 0.5 | 1 | 75.1 |

Source: Project aerial photography April 2018

^{a/} Upland forest not being used for specific commercial purposes.

^{b/} Utility rights-of-way, open fields, vacant land, herbaceous and scrub uplands, non-forested lands, golf courses, and municipal land.

^{c/} Cultivated land (e.g., tobacco, soybeans, hay, corn).

^{d/} Manufacturing or industrial plants, paved areas, landfills, mines, quarries, electric power or natural gas utility facilities; developed areas, roads, railroads and railroad yards, and commercial or retail facilities.

^{e/} Palustrine forested, Palustrine scrub-shrub, and Palustrine emergent wetlands as identified in Resource Report 2.

^{f/} Wooded lands being managed for forest products (i.e., pine plantations).

^{g/} Existing developed residential areas and planned residential developments. This may include large developments, low, medium, and high density residential neighborhoods, urban and suburban residential, multi-family residences, ethnic villages, residentially zoned areas that have been developed or short segments of the route at road crossings with homes near the route alignment.

^{h/} Field delineated waterbodies with a bank width of greater than six feet, and waterbodies visible on aerial photography where field delineation has not been completed.

^{i/} Sum of addends may not equal the totals due to rounding. Addends consist of 6-decimal digits. Mileposts along the H-650 pipeline incorporate station equations to maintain mileposting as route variations are incorporated. The total crossing miles of the H-650 pipeline is therefore longer than the end milepost (MP 73.17 RR).

| REVISED [Oct 2019] - Table 8.2-2 | | | | | | | | | | | | | | | | | | |
|--|---|-------------------------|-----------------------------------|--------------|------------------------------------|-------------|---|------------|-----------------------|----------------|----------------------------|------------|------------------------------|------------|-----------------------------|------------|---------------------|--------------|
| Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline ^{i/} | | | | | | | | | | | | | | | | | | |
| Facility County, State | Upland Forest / Woodland ^{a/} | | Upland Open Land ^{b/} | | Agricultural Land ^{c/} | | Commercial / Industrial ^{d/} | | Wetland ^{e/} | | Silviculture ^{f/} | | Residential ^{g/} | | Open Water ^{h/} | | Total ^{i/} | |
| | Construction ^{j/} | Operation ^{k/} | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operational |
| H-605 Pipeline Right-of-Way ^{l/} | 3.5 | 1.7 | 0.7 | 0.4 | 1.1 | 0.6 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | 0.0 | 5.3 | 2.6 |
| Pittsylvania, VA | 3.5 | 1.7 | 0.7 | 0.4 | 1.1 | 0.6 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | 0.0 | 5.3 | 2.6 |
| Additional Temporary Workspace | 2.4 | 0.0 | 0.1 | 0.0 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 |
| Pittsylvania, VA | 2.4 | 0.0 | 0.1 | 0.0 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 |
| H-650 Pipeline Right-of-Way ^{l/} | 441.8 | 227.6 | 248.2 | 123.0 | 118.6 | 59.9 | 10.8 | 5.6 | 22.9 | 5.6 | 9.0 | 4.5 | 6.5 | 2.9 | 3.5 | 0.0 | 861.3 | 429.0 |
| Pittsylvania, VA | 138.4 | 69.1 | 97.8 | 49.4 | 51.3 | 25.8 | 2.5 | 1.3 | 11.6 | 2.8 | 1.5 | 0.7 | 2.8 | 1.2 | 1.3 | 0.0 | 307.3 | 150.3 |
| Rockingham, NC | 182.0 | 95.0 | 72.7 | 34.4 | 33.0 | 17.2 | 5.0 | 2.7 | 8.0 | 1.9 | 2.7 | 1.4 | 0.8 | 0.3 | 1.6 | 0.0 | 305.7 | 152.9 |
| Alamance, NC | 121.4 | 63.4 | 77.7 | 39.1 | 34.3 | 16.9 | 3.3 | 1.6 | 3.3 | 0.9 | 4.7 | 2.4 | 2.9 | 1.4 | 0.6 | 0.0 | 248.3 | 125.8 |
| Additional Temporary Workspace | 137.8 | 0.0 | 87.4 | 0.0 | 56.4 | 0.0 | 1.7 | 0.0 | 1.9 | 0.0 | 2.8 | 0.0 | 2.4 | 0.0 | <0.1 | 0.0 | 290.4 | 0.0 |
| Pittsylvania, VA | 44.6 | 0.0 | 31.2 | 0.0 | 15.4 | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.4 | 0.0 | 0.4 | 0.0 | <0.1 | 0.0 | 92.3 | 0.0 |
| Rockingham, NC | 56.1 | 0.0 | 25.0 | 0.0 | 25.6 | 0.0 | 0.2 | 0.0 | 1.6 | 0.0 | 0.2 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 109.4 | 0.0 |
| Alamance, NC | 37.1 | 0.0 | 31.2 | 0.0 | 15.4 | 0.0 | 1.4 | 0.0 | 0.1 | 0.0 | 2.2 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 88.7 | 0.0 |

| REVISED [Oct 2019] - Table 8.2-2 | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|--------------|------------------------|------------|-------------------------|------------|----------------------------------|----------------|--------------|------------|-----------------|------------|-------------------|------------|------------------|------------|--------------|-------------|
| Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline i/ | | | | | | | | | | | | | | | | | | |
| Facility County, State | Upland Forest / Woodland a/ | | Upland Open Land b/ | | Agricultural Land c/ | | Commercial / Industrial d/ | | Wetland e/ | | Silviculture f/ | | Residential g/ | | Open Water h/ | | Total i/ | |
| | Construction j/ | Operation k/ | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operational |
| Cathodic Protection Groundbeds | <0.1 | <0.1 | 1.7 | 1.7 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| Pittsylvania, VA | <0.1 | <0.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| Rockingham, NC | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| Alamance, NC | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| Permanent Aboveground Facilities | 5.2 | 3.3 | 11.5 | 2.6 | 13.1 | 4.9 | <0.1 | <0.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.3 | 10.9 |
| Pittsylvania, VA | 4.9 | 3.1 | 1.3 | 0.7 | 13.0 | 4.9 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.1 | 8.6 |
| <i>Lambert Compressor Station & Interconnect / MLV 1</i> | 4.9 | 3.1 | 1.3 | 0.7 | 13.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.1 | 8.6 |
| <i>MLV 2</i> | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| <i>MLV 3</i> | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| Rockingham, NC | 0.3 | 0.2 | 8.9 | 1.4 | 0.1 | 0.0 | <0.1 | <0.1 | 0.5 | 0.0 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 1.6 |
| <i>LN 3600 Interconnect</i> | 0.3 | 0.2 | 4.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 0.9 |
| <i>T-15 Dan River Interconnect / MLV 4</i> | 0.0 | 0.0 | 4.6 | 0.8 | 0.1 | 0.0 | <0.1 | <0.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 0.8 |

| REVISED [Oct 2019] - Table 8.2-2 | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|--------------|------------------------|------------|-------------------------|------------|----------------------------------|------------|--------------|------------|-----------------|------------|-------------------|------------|------------------|------------|--------------|-------------|
| Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline i/ | | | | | | | | | | | | | | | | | | |
| Facility County, State | Upland Forest / Woodland a/ | | Upland Open Land b/ | | Agricultural Land c/ | | Commercial / Industrial d/ | | Wetland e/ | | Silviculture f/ | | Residential g/ | | Open Water h/ | | Total i/ | |
| | Construction j/ | Operation k/ | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operational |
| <u>MLV 5</u> | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| Alamance, NC | <0.1 | <0.1 | 1.3 | 0.6 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.6 |
| <u>T-21 Haw River Interconnect/ MLV 8</u> | 0.0 | 0.0 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.6 |
| <u>MLV 6</u> | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| <u>MLV 7</u> | <0.1 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.1 | <0.1 |
| Contractor Yards | 3.2 | 0.0 | 143.8 | 0.0 | 0.0 | 0.0 | 27.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 174.8 | 0.0 |
| Pittsylvania, VA | 3.0 | 0.0 | 84.8 | 0.0 | 0.0 | 0.0 | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 98.1 | 0.0 |
| Rockingham, NC | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.8 | 0.0 |
| Alamance, NC | 0.2 | 0.0 | 21.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.1 | 0.0 |
| Caswell, NC | <0.1 | 0.0 | 24.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.9 | 0.0 |
| Temporary and Permanent Access Roads | 11.8 | 0.3 | 56.1 | 3.8 | 10.1 | 0.7 | 11.4 | 0.8 | 0.2 | 0.0 | 0.6 | 0.0 | 9.2 | 0.0 | <0.1 | 0.0 | 99.5 | 5.7 |
| Pittsylvania, VA | 5.0 | 0.2 | 21.2 | 0.7 | 4.3 | 0.7 | 4.2 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | <0.1 | 0.0 | 37.7 | 2.3 |
| Rockingham, NC | 3.1 | 0.0 | 25.7 | 2.9 | 4.0 | <0.1 | 2.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 39.5 | 3.1 |

REVISED [Oct 2019] - Table 8.2-2

Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline ^{i/}

| Facility County, State | Upland Forest / Woodland ^{a/} | | Upland Open Land ^{b/} | | Agricultural Land ^{c/} | | Commercial / Industrial ^{d/} | | Wetland ^{e/} | | Silviculture ^{f/} | | Residential ^{g/} | | Open Water ^{h/} | | Total ^{i/} | |
|---------------------------|---|-------------------------|-----------------------------------|--------------|------------------------------------|-------------|---|------------|-----------------------|------------|----------------------------|------------|------------------------------|------------|-----------------------------|------------|---------------------|--------------|
| | Construction ^{j/} | Operation ^{k/} | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operational |
| Alamance, NC | 3.3 | 0.1 | 8.7 | 0.1 | 1.8 | <0.1 | 5.0 | 0.1 | 0.0 | 0.0 | 0.6 | 0.0 | 1.6 | 0.0 | <0.1 | 0.0 | 21.0 | 0.3 |
| Caswell, NC | 0.5 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | <0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 |
| Project Total | 605.8 | 232.9 | 549.5 | 131.5 | 199.3 | 66.1 | 51.8 | 6.5 | 25.5 | 5.6 | 12.5 | 4.5 | 18.1 | 2.9 | 3.5 | 0.0 | 1,465.9 | 450.0 |

Source: Project aerial photography April 2018.

Note: Pig launchers and receivers will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreages calculations for the pig launchers and receivers are included with those facilities. Mainline valves (MLVs) 1, 4, and 8 will be within other aboveground facility sites (i.e., the Lambert Compressor Station, T-15 Dan River Interconnect, and T-21 Haw River Interconnect), therefore, acreage calculations for MLVs 1, 4, and 8 are included with those facilities.

^{a/} Upland forest not being used for specific commercial purposes.

^{b/} Utility rights-of-way, open fields, vacant land, herbaceous and scrub uplands, non-forested lands, golf courses, and municipal land.

^{c/} Cultivated land (e.g., tobacco, soybeans, hay, corn).

^{d/} Manufacturing or industrial plants, paved areas, landfills, mines, quarries, electric power or natural gas utility facilities; developed areas, roads, railroads and railroad yards, and commercial or retail facilities.

^{e/} Palustrine forested, Palustrine scrub-shrub, and Palustrine emergent wetlands as identified in Resource Report 2.

^{f/} Wooded lands being managed for forest products (i.e., pine plantations).

^{g/} Existing developed residential areas and planned residential developments. This may include large developments, low, medium, and high density residential neighborhoods, urban and suburban residential, multi-family residences, ethnic villages, residentially zoned areas that have been developed or short segments of the route at road crossings with homes near the route alignment.

^{h/} Field delineated waterbodies with a bank width of greater than six feet, and waterbodies visible on aerial photography where field delineation has not been completed.

^{i/} Sums may not equal the total of addends due to rounding.

^{j/} Construction acres includes the area affected by construction (i.e., temporary and additional temporary workspace, contractor yards, and access roads) and the area affected by operation of the Project (i.e., facility operation footprint and 50-foot pipeline permanent right-of-way). The 50-foot-wide permanent right-of-way between horizontal directional drill entry and exit points are not included in this acreage. Acreage includes a three-foot path between the HDD entry and exit workspace areas to allow for placement of the HDD guide wire.

| REVISED [Oct 2019] - Table 8.2-2 | | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|---------------------|-------------------------------|-----------|--------------------------------|-----------|---|-----------|-------------------|-----------|------------------------|-----------|--------------------------|-----------|-------------------------|-----------|-----------------|-------------|
| Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline <i>i/</i> | | | | | | | | | | | | | | | | | | |
| Facility County, State | Upland Forest / Woodland <i>a/</i> | | Upland Open Land <i>b/</i> | | Agricultural Land <i>c/</i> | | Commercial / Industrial <i>d/</i> | | Wetland <i>e/</i> | | Silviculture <i>f/</i> | | Residential <i>g/</i> | | Open Water <i>h/</i> | | Total <i>i/</i> | |
| | Construction <i>j/</i> | Operation <i>k/</i> | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operation | Construction | Operational |
| <p><i>k/</i> Includes only the operation footprint of the Project facilities, the 50-foot-wide permanent pipeline right-of-way in uplands, except in wetland areas where the operation width has been reduced to 10 feet in emergent wetlands, scrub shrub wetlands, and within 25 feet of waterbodies; and 30 feet in forested wetlands. The 50-foot-wide permanent right-of-way between horizontal directional drill entry and exit points and within railroad rights-of-way are not included in this acreage.</p> <p><i>l/</i> Includes the 50-foot-wide permanent right-of-way and temporary workspace areas.</p> <p><i>i/</i> includes ATWS areas for both the H-605 and H-650 pipelines. ATWS areas to be used for construction of aboveground facilities are included in the acreage calculations for the applicable aboveground facilities. ATWS areas associated with access roads are included in the acreage calculations for the applicable pipeline facility the access road is associated with (i.e., H-605 or H-650 pipeline).</p> | | | | | | | | | | | | | | | | | | |

| REVISED [Oct 2019] - Table 8.2-3 | | | |
|---|-----------------------|------------------|--|
| Agricultural Drainage Tiles and Irrigation Systems Located on Parcels Affected by the Southgate Project | | | |
| State, County | Approximate Mileposts | Tract ID | Feature Type |
| Virginia | | | |
| Pittsylvania | 9.2 | VA-PI-052.000 | Irrigation Sprinkler System |
| Pittsylvania | 17.2 | VA-PI-115.200.AR | Irrigation Sprinkler System |
| North Carolina | | | |
| Rockingham | 35.7 | NC-RO-058.000 | Irrigation Sprinkler System |
| Rockingham | 35.5 | NC-RO-059.000 | Irrigation Sprinkler System |
| Rockingham | 36.2 | NC-RO-061.000 | Irrigation Sprinkler System |
| Rockingham | 36.6 | NC-RO-063.000 | Well |
| Rockingham | 38.7 | NC-RO-089.000 | Irrigation Sprinkler System |
| Rockingham | 42.0 | NC-RO-112.000 | Drain Tile |
| Rockingham | 41.8 | NC-RO-112.100.AR | Drain Tile |
| Rockingham | 48.2 | NC-RO-156.000 | Irrigation Sprinkler System |
| Rockingham | 50.3 | NC-RO-174.200 | Irrigation Sprinkler System |
| Alamance | 53.3 | NC-AL-000.060 | Irrigation Sprinkler System |
| Alamance | 54.3 | NC-AL-006.000 | Irrigation Sprinkler System |
| Alamance | 56.1 | NC-AL-025.000 | Pivot or Irrigation System |
| Alamance | 61.1 | NC-AL-076.000 | Irrigation Sprinkler System |
| Alamance | 61.7 | NC-AL-081.000 | Irrigation Sprinkler System |
| Alamance | 62.1 | NC-AL-084.000 | Irrigation Sprinkler System |
| Alamance | 63.2 | NC-AL-093.000 | Agricultural Drain Tile |
| Alamance | 63.4 / TA-AL-171 | NC-AL-101.000.AR | Irrigation Sprinkler System, Pivot or Irrigation System |
| Alamance | 66.3 | FA3-AL-005.000 | Drain Tile, Septic System |
| Alamance | Contractor Yard | NC-AL-226.CY26 | Drain Tile |
| Source: Landowner surveys conducted to date for the Southgate Project. | | | |

| REVISED [Oct 2019] - Table 8.2-4 | | | | | |
|---|------------------|------------------|---------------------------------|------------------------------|---------------------------|
| Silviculture Areas Crossed by the Southgate Project | | | | | |
| Silviculture Type | Land Tract | Nearest Milepost | Pipeline Crossing Length (feet) | Construction Acres <u>a/</u> | Operation Acres <u>b/</u> |
| Pine Plantation | VA-PI-006.000 | 0.9 | 253 | 1.0 | 0.2 |
| Pine Plantation | VA-PI-007.000 | 1.0 | 0 | <0.1 | <0.1 |
| Pine Plantation | VA-PI-008.000 | 1.2 | 0 | <0.1 | 0.0 |
| Pine Plantation | VA-PI-101.000 | 15.4RR | 421 | 1.0 | 0.5 |
| Pine Plantation | NC-RO-006.000 | 27.6 – 28.5RR | 398 | 1.0 | 0.5 |
| Pine Plantation | NC-RO-140.000 | 45.2 – 45.5 | 796 | 2.0 | 0.9 |
| Pine Plantation | NC-AL-000.065 | 53.3 – 53.6 | 1,554 | 4.3 | 1.8 |
| Pine Plantation | NC-AL-074.100 AR | 60.8RR | 0 | 0.3 | 0.0 |
| Pine Plantation | NC-AL-103.000 | 63.8 – 64.0RR | 540 | 2.9 | 0.6 |
| Pine Plantation | NC-AL-143.000 | 68.4 | 0 | 0.1 | 0.0 |
| Totals <u>c/</u> | | | 3,962 | 12.5 | 4.5 |
| <p><u>a/</u> Construction acres includes the area affected by construction (i.e., temporary and additional temporary workspace, contractor yards, and access roads) and the area affected by operation of the Southgate Project (i.e., facility operation footprint and 50-foot pipeline permanent right-of-way). The 50-foot-wide permanent right-of-way between horizontal directional drill entry and exit points and within railroad rights-of-way are not included in this acreage.</p> <p><u>b/</u> Includes only the operation footprint of the Southgate Project facilities that is the 50-foot-wide permanent pipeline right-of-way in uplands.</p> <p><u>c/</u> Sums may not equal the total of addends due to rounding. Addends consist of six-decimal digits.</p> | | | | | |

| REVISED [Oct 2019] - Table 8.2-6 | | | | |
|--|----------|---------------------------|---------------------|--------------------------|
| Railroads Crossed by the Southgate Project | | | | |
| County, State | Milepost | Railroad | Active or Abandoned | Proposed Crossing Method |
| Pittsylvania, VA | 5.3 | Norfolk Southern Railroad | Active | Conventional Bore |
| Pittsylvania, VA | 25.0 | Norfolk Southern Railroad | Active | Conventional Bore |
| Rockingham, NC | 39.7 | Norfolk Southern | Active | Conventional Bore |
| Alamance, NC | 69.8 RR | Norfolk Southern Railway | Active | Conventional Bore |

REVISED [Oct 2019] - Table 8.4-1

Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project

| County, State | Milepost | Name of Area | Land Ownership / Management | Pipeline Crossing Length (feet) | Land Use <u>g</u> / | Area Affected (Acres) | | Distance and Direction from Pipeline or Facility (feet) | Crossing Method / Special Construction Measures |
|----------------------------|-------------|---|--|---------------------------------|---------------------|-----------------------|-----------|---|---|
| | | | | | | Construction | Operation | | |
| H-605 Pipeline | | | | | | | | | |
| None Identified | | | | | | | | | |
| H-650 Pipeline | | | | | | | | | |
| Pittsylvania, Virginia | 4.3 | Designated Banister River Segment / Future Blueway | State Designated | N/A | N/A | N/A | N/A | 1,162 feet southeast of MP 4.3 | N/A |
| Pittsylvania, Virginia | 4.9 | Banister River Future Blueway | Upper Reach Roanoke River Basin Association | 48 | OW | 0.1 | 0.0 | 0 | Open cut – Dam and pump, Flume |
| Pittsylvania, Virginia | 5.5 – 6.6 | Pittsylvania County Parcels | Pittsylvania County | 5,835 | AG, CI, FW, OL | 18.2 | 6.6 | 0 | Conventional open-cut |
| Pittsylvania, Virginia | 14.2RR | Easement | Virginia Outdoors Foundation | N/A | N/A | N/A | N/A | 914 feet southeast of MP 14.2RR | N/A |
| Pittsylvania, Virginia | 17.7RR | Designated Sandy River Segment | State Designated | 113 | OW | 0.2 | 0.0 | 0 | Open cut – Dam and pump Flume |
| Pittsylvania, Virginia | 22.3 – 24.8 | Berry Hill Industrial Park | Pittsylvania Regional Industrial Facility Authority (i.e., Commonwealth of Virginia) | 13,608 | FW, OL, OW, WL | 41.2 | 15.2 | 0 | Conventional open-cut |
| Rockingham, North Carolina | 30.1 | Dan River Trail / Nationwide Rivers Inventory | North Carolina Watercraft Trail | N/A (HDD) | OW | 0.0 | 0.0 | 0 | HDD |
| Rockingham, North Carolina | 37.7 – 38.0 | Conservation Easement | Piedmont Land Conservancy | 139 | FW, OL, OW | 0.3 | 0.1 | 0 | Conventional open-cut |
| Rockingham, North Carolina | 38.8 – 39.0 | None | City of Reidsville | 1,207 | FW, OL | 4.3 | 1.4 | 0 | Conventional open-cut |
| Alamance, North Carolina | 56.9 | Ace Speedway | Private | N/A | N/A | N/A | N/A | 94 feet west of MP 56.9 | N/A |
| Alamance, North Carolina | 58.7 | AOI Study Area – Land being considered during the master planning process | North Carolina Division of Parks and Recreation | N/A | N/A | N/A | N/A | 870 feet southwest of MP 58.7 | N/A |

REVISED [Oct 2019] - Table 8.4-1

Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project

| County, State | Milepost | Name of Area | Land Ownership / Management | Pipeline Crossing Length (feet) | Land Use <u>g</u> / | Area Affected (Acres) | | Distance and Direction from Pipeline or Facility (feet) | Crossing Method / Special Construction Measures |
|--------------------------|---------------------|---|---|---------------------------------|---------------------|-----------------------|-----------|---|---|
| | | | | | | Construction | Operation | | |
| Alamance, North Carolina | 60.7 | Mitigation Easement | North Carolina Division of Mitigation Services | N/A | N/A | N/A | N/A | 551 feet north of MP 60.7 | N/A |
| Alamance, North Carolina | 65.6 | Conservation Easement | Private | 0 | FW, OL | 0.3 | <0.1 | 0 | Conventional open-cut |
| Alamance, North Carolina | 68.6 | Planned Regional Trail | North Carolina Division of Parks and Recreation | Unknown | FW, OL | Unknown | Unknown | 0 | Conventional open-cut |
| Alamance, North Carolina | 68.9 – 69.3 | Mountains-To-Sea Trail | North Carolina Division of Parks and Recreation | 0 | N/A | N/A | N/A | 450 feet northwest of MP 69.1 | N/A |
| Alamance, North Carolina | 69.6 | Mountains-To-Sea Trail | North Carolina Division of Parks and Recreation | N/A (conventional bore) | CI | 0.0 | 0.0 | 0 | Conventional Bore |
| Alamance, North Carolina | 69.6 – 69.7 | Town of Haw River | Town of Haw River | 0 | CI, OL, FW | 1.0 | 0.0 | 0 | Conventional open-cut and conventional bore |
| Alamance, North Carolina | 69.7RR – 73.1RR | Planned Haw River Trail / Nationwide Rivers Inventory | Haw River Trail Partnership | N/A | N/A | N/A | N/A | 190 feet west of MP 71.6 | N/A |
| Alamance, North Carolina | 70.0 – 71.3 | Challenge Golf Club | Private | N/A | N/A | N/A | N/A | 440 feet west of MP 71.3 | N/A |
| Alamance, North Carolina | 70.2RR | Haw River Sanitary District Facility | Town of Haw River | 196 | FW | 0.4 | 0.2 | 0 | Conventional open-cut |
| Alamance, North Carolina | 71.4 – 71.7 | Easement | North Carolina Clean Water Trust Fund | N/A | N/A | N/A | N/A | 177 feet west of MP 71.6 | N/A |
| Alamance, North Carolina | 71.8 | Easement | North Carolina Clean Water Trust Fund | N/A | N/A | N/A | N/A | 446 feet west of MP 71.8 | N/A |
| Alamance, North Carolina | 72.9RR | Graham Paddle Access – Haw River Trail | City of Graham | N/A | N/A | N/A | N/A | 220 feet northwest of ATWS 1692 near MP 72.9 RR | N/A |
| Alamance, North Carolina | 73.2RR ^g | Easement | Private | 1,426 | CI, OL, WL | 7.3 | 1.5 | 0 | Open cut / TBD |

Contractor Yards

REVISED [Oct 2019] - Table 8.4-1

Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project

| County, State | Milepost | Name of Area | Land Ownership / Management | Pipeline Crossing Length (feet) | Land Use <u>g</u> / | Area Affected (Acres) | | Distance and Direction from Pipeline or Facility (feet) | Crossing Method / Special Construction Measures |
|--|-----------------|----------------------------|--|---------------------------------|---------------------|-----------------------|-----------|---|---|
| | | | | | | Construction | Operation | | |
| Rockingham, North Carolina | 44.8 | Mitigation Easement | North Carolina Division of Mitigation Services | N/A | N/A | N/A | N/A | 508 feet west of CY-08 | N/A |
| Access Roads | | | | | | | | | |
| Pittsylvania, Virginia | 5.6 – 5.8 | Pittsylvania County Parcel | Pittsylvania County | N/A | FW, OL | 0.6 | 0.0 | TA-PI-015 | Stone and Widening |
| Pittsylvania, Virginia | 5.9 | Pittsylvania County Parcel | Pittsylvania County | N/A | CI, FW, OL | 2.0 | 0.0 | TA-PI-016 | Stone and Widening |
| Pittsylvania, Virginia | 6.2 | Pittsylvania County Parcel | Pittsylvania County | N/A | CI, OL | 0.5 | 0.0 | TA-PI-017 | Stone and Widening |
| Pittsylvania, Virginia | 14.2RR | Easement | Virginia Outdoors Foundation | N/A | N/A | N/A | N/A | TA-PI-035 | N/A |
| Pittsylvania, Virginia | 23.0RR | Berry Hill Industrial Park | Pittsylvania Regional Industrial Facility Authority (i.e., Commonwealth of Virginia) | N/A | FW, OL, OW, WL | 2.0 | 0.0 | TA-PI-061 | Stone, Widening, and Culverts |
| Pittsylvania, Virginia | 24.0 | Berry Hill Industrial Park | Pittsylvania Regional Industrial Facility Authority (i.e., Commonwealth of Virginia) | N/A | CI, FW, OL, OW | 1.6 | 0.0 | TA-PI-063 | Stone, Widening, and Culverts |
| Rockingham, North Carolina | 38.8 – 39.0 | None | City of Reidsville | N/A | FW, OL | 0.1 | 0.0 | TA-RO-106 | Stone and Widening |
| Alamance, North Carolina | 56.8 - 56.9 | Ace Speedway | Private | N/A | CI, OL | 0.3 | 0.0 | TA-AL-159A | Stone and Widening |
| Alamance, North Carolina | 73.2RR | Easement | Private | N/A | OL | <0.1 | <0.1 | PA-AL-194 | TBD |
| T-21 Haw River Interconnect / MLV 8 | | | | | | | | | |
| Alamance, North Carolina | 72.9RR - 73.2RR | Easement | Private | N/A | OL | 1.3 | 0.6 | 0 | TBD |

REVISED [Oct 2019] - Table 8.4-1

Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project

| County, State | Milepost | Name of Area | Land Ownership / Management | Pipeline Crossing Length (feet) | Land Use ^{a/} | Area Affected (Acres) | | Distance and Direction from Pipeline or Facility (feet) | Crossing Method / Special Construction Measures |
|---------------|----------|--------------|-----------------------------|---------------------------------|------------------------|-----------------------|-----------|---|---|
| | | | | | | Construction | Operation | | |

Notes:

ATWS = additional temporary workspace; HDD = horizontal directional drill; MP = milepost; CY = Contractor Yard; N/A = not applicable.

Mileposts with an "RR" indicate locations where a re-route was incorporated into the pipeline alignment.

^{a/} FW = Upland Forest / Woodland; CI = Commercial / Industrial, OL = Upland Open Land; OW = Open Water; RD = Residential; WL = Wetland.

^{b/} Boundary of conservation easement to be verified during pipeline easement negotiations with the landowner.

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| H-605 Pipeline | | | |
| Upland Forest / Woodland | 0.00 | 0.12 | 637.6 |
| Wetland | 0.12 | 0.12 | 11.7 |
| Open Water | 0.12 | 0.12 | 6.0 |
| Upland Forest / Woodland | 0.12 | 0.27 | 782.8 |
| Upland Open Land | 0.27 | 0.28 | 44.7 |
| Agriculture | 0.28 | 0.34 | 333.9 |
| Upland Open Land | 0.34 | 0.37 | 128.2 |
| Upland Forest / Woodland | 0.37 | 0.37 | 30.2 |
| Upland Open Land | 0.37 | 0.38 | 30.9 |
| Agriculture | 0.38 | 0.41 | 158.1 |
| Upland Open Land | 0.41 | 0.42 | 40.9 |
| Upland Forest / Woodland | 0.42 | 0.43 | 41.6 |
| Upland Open Land | 0.43 | 0.45 | 153.9 |
| Agriculture | 0.45 | 0.47 | 85.8 |
| H-650 Pipeline | | | |
| Agriculture | 0.0 RR | 0.05 RR | 256.7 |
| Upland Open Land | 0.05 RR | 0.10 RR | 286.8 |
| Upland Forest / Woodland | 0.10 RR | 0.16 | 446.6 |
| Wetland | 0.16 | 0.17 | 57.5 |
| Upland Forest / Woodland | 0.17 | 0.32 | 750.2 |
| Wetland | 0.32 | 0.38 | 344.9 |
| Upland Open Land | 0.38 | 0.39 | 18.6 |
| Upland Forest / Woodland | 0.39 | 0.39 | 1.5 |
| Wetland | 0.39 | 0.39 | 11.4 |
| Upland Forest / Woodland | 0.39 | 0.39 | 18.3 |
| Open Water | 0.39 | 0.40 | 21.4 |
| Upland Forest / Woodland | 0.40 | 0.42 | 113.4 |
| Upland Open Land | 0.42 | 0.44 | 132.8 |
| Upland Forest / Woodland | 0.44 | 0.52 | 399.5 |
| Upland Open Land | 0.52 | 0.55 | 152.7 |
| Upland Forest / Woodland | 0.55 | 0.55 | 16.4 |
| Open Water | 0.55 | 0.55 | 14.1 |
| Wetland | 0.55 | 0.56 | 30.3 |
| Upland Forest / Woodland | 0.56 | 0.56 | 9.1 |
| Upland Open Land | 0.56 | 0.56 | 0.3 |
| Wetland | 0.56 | 0.60 | 194.4 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 0.60 | 0.71 | 573.1 |
| Commercial/Industrial | 0.71 | 0.71 | 25.4 |
| Upland Open Land | 0.71 | 0.87 | 830.6 |
| Commercial/Industrial | 0.87 | 0.87 | 26.7 |
| Upland Open Land | 0.87 | 0.92 | 225.0 |
| Silviculture | 0.92 | 0.96 | 252.6 |
| Upland Forest / Woodland | 0.96 | 0.98 | 86.3 |
| Wetland | 0.98 | 0.98 | 12.9 |
| Upland Forest / Woodland | 0.98 | 0.99 | 60.0 |
| Upland Open Land | 0.99 | 1.00 | 16.0 |
| Agriculture | 1.00 | 1.07 | 367.3 |
| Upland Forest / Woodland | 1.07 | 1.09 | 117.2 |
| Agriculture | 1.09 | 1.09 | 6.9 |
| Upland Forest / Woodland | 1.09 | 1.10 | 49.6 |
| Open Water | 1.10 | 1.10 | 4.6 |
| Upland Forest / Woodland | 1.10 | 1.11 | 44.7 |
| Agriculture | 1.11 | 1.13 | 116.4 |
| Upland Forest / Woodland | 1.13 | 1.15 | 115.3 |
| Upland Open Land | 1.15 | 1.32 RR | 880.8 |
| Upland Forest / Woodland | 1.32 RR | 1.37 RR | 277.9 |
| Upland Open Land | 1.37 RR | 1.37 | 137.9 |
| Wetland | 1.37 | 1.40 | 155.7 |
| Upland Forest / Woodland | 1.40 | 1.41 | 61.5 |
| Wetland | 1.41 | 1.41 | 10.6 |
| Open Water | 1.41 | 1.41 | 4.1 |
| Wetland | 1.41 | 1.46 | 254.8 |
| Upland Forest / Woodland | 1.46 | 1.47 | 35.9 |
| Wetland | 1.47 | 1.62 | 770.2 |
| Upland Open Land | 1.62 | 1.69 | 408.0 |
| Wetland | 1.69 | 1.70 | 55.3 |
| Upland Open Land | 1.70 | 1.70 | 8.0 |
| Upland Forest / Woodland | 1.70 | 1.71 | 46.4 |
| Open Water | 1.71 | 1.72 | 29.6 |
| Upland Forest / Woodland | 1.72 | 1.73 | 34.6 |
| Upland Open Land | 1.73 | 1.79 | 331.1 |
| Wetland | 1.79 | 2.18 | 2,072.4 |
| Upland Open Land | 2.18 | 2.21 | 145.3 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Wetland | 2.21 | 2.22 | 48.7 |
| Upland Forest / Woodland | 2.22 | 2.22 | 12.5 |
| Upland Open Land | 2.22 | 2.30 | 407.8 |
| Upland Forest / Woodland | 2.30 | 2.43 | 685.2 |
| Upland Open Land | 2.43 | 2.45 | 95.9 |
| Upland Forest / Woodland | 2.45 | 2.51 | 361.1 |
| Upland Open Land | 2.51 | 2.52 | 53.2 |
| Upland Forest / Woodland | 2.52 | 2.53 | 41.7 |
| Upland Open Land | 2.53 | 2.53 | 14.7 |
| Upland Forest / Woodland | 2.53 | 2.54 | 48.4 |
| Upland Open Land | 2.54 | 2.55 | 21.6 |
| Upland Forest / Woodland | 2.55 | 2.57 | 143.3 |
| Upland Open Land | 2.57 | 2.78 | 1,093.0 |
| Commercial/Industrial | 2.78 | 2.79 | 27.2 |
| Agriculture | 2.79 | 2.91 | 672.7 |
| Commercial/Industrial | 2.91 | 2.92 | 24.6 |
| Agriculture | 2.92 | 2.98 | 297.5 |
| Commercial/Industrial | 2.98 | 2.98 | 28.6 |
| Agriculture | 2.98 | 3.17 | 999.2 |
| Upland Open Land | 3.17 | 3.23 | 294.5 |
| Upland Forest / Woodland | 3.23 | 3.23 | 3.7 |
| Open Water | 3.23 | 3.23 | 7.8 |
| Upland Forest / Woodland | 3.23 | 3.24 | 52.4 |
| Upland Open Land | 3.24 | 3.26 | 110.6 |
| Agriculture | 3.26 | 3.40 | 748.8 |
| Commercial/Industrial | 3.40 | 3.40 | 15.2 |
| Agriculture | 3.40 | 3.56 | 813.2 |
| Upland Forest / Woodland | 3.56 | 3.58 | 92.5 |
| Wetland | 3.58 | 3.58 | 43.7 |
| Open Water | 3.58 | 3.59 | 9.8 |
| Wetland | 3.59 | 3.59 | 1.4 |
| Upland Forest / Woodland | 3.59 | 3.60 | 80.0 |
| Agriculture | 3.60 | 3.80 RR | 1,049.9 |
| Upland Forest / Woodland | 3.80 RR | 3.81 RR | 56.1 |
| Agriculture | 3.81 RR | 3.82 RR | 36.7 |
| Upland Forest / Woodland | 3.82 RR | 3.84 RR | 120.3 |
| Upland Open Land | 3.84 RR | 3.87 RR | 181.4 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 3.87 RR | 3.89 RR | 91.5 |
| Upland Open Land | 3.89 RR | 3.91 RR | 72.8 |
| Upland Forest / Woodland | 3.91 RR | 3.94 RR | 162.7 |
| Agriculture | 3.94 RR | 4.02 | 497.4 |
| Upland Forest / Woodland | 4.02 | 4.02 | 35.8 |
| Wetland | 4.02 | 4.02 | 5.1 |
| Open Water | 4.02 | 4.03 | 5.7 |
| Upland Forest / Woodland | 4.03 | 4.03 | 18.3 |
| Agriculture | 4.03 | 4.11 | 444.8 |
| Upland Forest / Woodland | 4.11 | 4.12 | 50.0 |
| Open Water | 4.12 | 4.12 | 3.8 |
| Upland Forest / Woodland | 4.12 | 4.13 | 32.7 |
| Agriculture | 4.13 | 4.24 | 556.9 |
| Commercial/Industrial | 4.24 | 4.24 | 21.7 |
| Upland Open Land | 4.24 | 4.27 | 186.2 |
| Commercial/Industrial | 4.27 | 4.28 | 16.3 |
| Upland Forest / Woodland | 4.28 | 4.32 | 232.0 |
| Commercial/Industrial | 4.32 | 4.34 | 117.4 |
| Upland Open Land | 4.34 | 4.35 | 35.6 |
| Upland Forest / Woodland | 4.35 | 4.41 | 330.6 |
| Upland Open Land | 4.41 | 4.50 | 436.2 |
| Upland Forest / Woodland | 4.50 | 4.50 | 11.9 |
| Upland Open Land | 4.50 | 4.53 | 144.6 |
| Upland Forest / Woodland | 4.53 | 4.53 | 6.2 |
| Upland Open Land | 4.53 | 4.54 | 87.6 |
| Upland Forest / Woodland | 4.54 | 4.56 | 95.1 |
| Upland Open Land | 4.56 | 4.62 | 308.8 |
| Upland Forest / Woodland | 4.62 | 4.78 | 859.7 |
| Upland Open Land | 4.78 | 4.83 | 245.9 |
| Upland Forest / Woodland | 4.83 | 4.84 | 46.6 |
| Open Water | 4.84 | 4.84 | 4.0 |
| Upland Forest / Woodland | 4.84 | 4.84 | 9.0 |
| Upland Open Land | 4.84 | 4.85 | 63.7 |
| Wetland | 4.85 | 4.92 | 382.1 |
| Upland Open Land | 4.92 | 4.93 | 50.9 |
| Open Water | 4.93 | 4.94 | 48.4 |
| Upland Open Land | 4.94 | 4.99 | 267.2 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 4.99 | 5.01 | 78.3 |
| Wetland | 5.01 | 5.01 | 13.5 |
| Open Water | 5.01 | 5.02 | 32.7 |
| Wetland | 5.02 | 5.04 | 123.4 |
| Upland Forest / Woodland | 5.04 | 5.05 | 68.0 |
| Upland Open Land | 5.05 | 5.06 | 34.2 |
| Upland Forest / Woodland | 5.06 | 5.10 | 214.3 |
| Upland Open Land | 5.10 | 5.11 | 30.9 |
| Upland Forest / Woodland | 5.11 | 5.12 | 43.1 |
| Wetland | 5.12 | 5.13 | 86.5 |
| Open Water | 5.13 | 5.14 | 23.0 |
| Upland Forest / Woodland | 5.14 | 5.14 | 46.1 |
| Wetland | 5.14 | 5.20 | 308.8 |
| Upland Forest / Woodland | 5.20 | 5.22 | 71.8 |
| Wetland | 5.22 | 5.24 | 122.4 |
| Upland Forest / Woodland | 5.24 | 5.25 | 30.4 |
| Upland Open Land | 5.25 | 5.25 | 19.9 |
| Commercial/Industrial | 5.25 | 5.26 | 53.4 |
| Upland Open Land | 5.26 | 5.27 | 40.0 |
| Upland Forest / Woodland | 5.27 | 5.42 | 800.0 |
| Upland Open Land | 5.42 | 5.43 | 54.9 |
| Upland Forest / Woodland | 5.43 | 5.45 | 128.5 |
| Upland Open Land | 5.45 | 5.49 | 199.0 |
| Upland Forest / Woodland | 5.49 | 5.55 | 312.9 |
| Upland Open Land | 5.55 | 5.56 | 62.6 |
| Upland Forest / Woodland | 5.56 | 5.58 | 101.5 |
| Upland Open Land | 5.58 | 5.72 | 708.6 |
| Upland Forest / Woodland | 5.72 | 5.76 | 216.0 |
| Upland Open Land | 5.76 | 5.76 | 18.8 |
| Upland Forest / Woodland | 5.76 | 5.79 | 155.8 |
| Upland Open Land | 5.79 | 5.94 | 818.2 |
| Upland Forest / Woodland | 5.94 | 5.95 | 30.2 |
| Upland Open Land | 5.95 | 5.98 | 163.6 |
| Upland Forest / Woodland | 5.98 | 6.00 | 90.2 |
| Upland Open Land | 6.00 | 6.11 | 569.0 |
| Upland Forest / Woodland | 6.11 | 6.15 | 225.4 |
| Upland Open Land | 6.15 | 6.15 | 14.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 6.15 | 6.19 | 223.1 |
| Upland Open Land | 6.19 | 6.21 | 69.3 |
| Upland Forest / Woodland | 6.21 | 6.22 | 67.6 |
| Upland Open Land | 6.22 | 6.40 | 926.9 |
| Upland Forest / Woodland | 6.40 | 6.40 | 19.3 |
| Upland Open Land | 6.40 | 6.44 | 232.2 |
| Upland Forest / Woodland | 6.44 | 6.47 | 165.7 |
| Upland Open Land | 6.47 | 6.55 | 385.8 |
| Upland Forest / Woodland | 6.55 | 6.56 | 72.7 |
| Upland Open Land | 6.56 | 6.57 | 50.6 |
| Upland Forest / Woodland | 6.57 | 6.57 | 10.3 |
| Wetland | 6.57 | 6.58 | 53.3 |
| Upland Forest / Woodland | 6.58 | 6.61 | 135.4 |
| Upland Open Land | 6.61 | 6.62 | 79.5 |
| Upland Forest / Woodland | 6.62 | 6.64 | 78.0 |
| Upland Open Land | 6.64 | 6.64 | 20.8 |
| Open Water | 6.64 | 6.64 | 5.3 |
| Upland Open Land | 6.64 | 6.69 | 232.1 |
| Upland Forest / Woodland | 6.69 | 6.70 | 91.0 |
| Upland Open Land | 6.70 | 6.72 | 70.5 |
| Upland Forest / Woodland | 6.72 | 6.74 | 108.2 |
| Upland Open Land | 6.74 | 6.75 | 42.1 |
| Upland Forest / Woodland | 6.75 | 6.75 | 36.1 |
| Upland Open Land | 6.75 | 6.76 | 32.5 |
| Upland Forest / Woodland | 6.76 | 6.84 | 433.3 |
| Upland Open Land | 6.84 | 6.85 | 38.8 |
| Upland Forest / Woodland | 6.85 | 6.94 | 488.9 |
| Upland Open Land | 6.94 | 6.96 | 85.3 |
| Upland Forest / Woodland | 6.96 | 6.96 | 25.8 |
| Open Water | 6.96 | 6.96 | 3.9 |
| Upland Forest / Woodland | 6.96 | 6.98 | 114.6 |
| Open Water | 6.98 | 6.99 | 5.3 |
| Upland Forest / Woodland | 6.99 | 6.99 | 39.0 |
| Upland Open Land | 6.99 | 7.03 | 208.9 |
| Upland Forest / Woodland | 7.03 | 7.06 | 121.6 |
| Agriculture | 7.06 | 7.11 | 312.6 |
| Upland Open Land | 7.11 | 7.17 | 271.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Commercial/Industrial | 7.17 | 7.17 | 38.9 |
| Upland Open Land | 7.17 | 7.32 | 752.2 |
| Upland Forest / Woodland | 7.32 | 7.35 | 177.2 |
| Upland Open Land | 7.35 | 7.36 | 48.6 |
| Upland Forest / Woodland | 7.36 | 7.37 | 38.6 |
| Upland Open Land | 7.37 | 7.37 | 46.0 |
| Commercial/Industrial | 7.37 | 7.42 | 221.7 |
| Upland Open Land | 7.42 | 7.50 | 425.7 |
| Upland Forest / Woodland | 7.50 | 7.50 | 1.6 |
| Upland Open Land | 7.50 | 7.51 | 48.6 |
| Upland Forest / Woodland | 7.51 | 7.51 | 21.6 |
| Upland Open Land | 7.51 | 7.58 | 375.2 |
| Open Water | 7.58 | 7.58 | 3.2 |
| Upland Open Land | 7.58 | 7.62 | 186.8 |
| Upland Forest / Woodland | 7.62 | 7.65 | 165.4 |
| Upland Open Land | 7.65 | 7.97 | 1,719.1 |
| Wetland | 7.97 | 7.98 | 3.2 |
| Open Water | 7.98 | 7.98 | 9.1 |
| Wetland | 7.98 | 7.98 | 4.9 |
| Upland Forest / Woodland | 7.98 | 7.99 | 76.5 |
| Upland Open Land | 7.99 | 8.08 | 448.9 |
| Commercial/Industrial | 8.08 | 8.08 | 22.4 |
| Upland Open Land | 8.08 | 8.13 | 272.7 |
| Upland Forest / Woodland | 8.13 | 8.17 | 178.4 |
| Upland Open Land | 8.17 | 8.38 | 1,119.5 |
| Upland Forest / Woodland | 8.38 | 8.38 | 5.2 |
| Upland Open Land | 8.38 | 8.40 | 125.9 |
| Wetland | 8.40 | 8.42 | 97.5 |
| Upland Open Land | 8.42 | 8.43 | 35.9 |
| Upland Forest / Woodland | 8.43 | 8.45 | 125.6 |
| Upland Open Land | 8.45 | 8.52 | 357.3 |
| Upland Forest / Woodland | 8.52 | 8.52 | 11.6 |
| Upland Open Land | 8.52 | 8.53 | 24.2 |
| Wetland | 8.53 | 8.55 | 93.4 |
| Open Water | 8.55 | 8.55 | 8.1 |
| Wetland | 8.55 | 8.55 | 32.4 |
| Upland Open Land | 8.55 | 8.56 | 18.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 8.56 | 8.56 | 14.2 |
| Open Water | 8.56 | 8.56 | 9.3 |
| Upland Open Land | 8.56 | 8.57 | 33.0 |
| Wetland | 8.57 | 8.58 | 46.6 |
| Upland Forest / Woodland | 8.58 | 8.59 | 96.4 |
| Upland Open Land | 8.59 | 8.78 | 987.1 |
| Upland Forest / Woodland | 8.78 | 8.85 | 380.2 |
| Upland Open Land | 8.85 | 8.85 | 3.7 |
| Upland Forest / Woodland | 8.85 | 8.88 | 132.5 |
| Upland Open Land | 8.88 | 8.90 | 112.1 |
| Upland Forest / Woodland | 8.90 | 8.93 | 156.8 |
| Upland Open Land | 8.93 | 8.96 | 166.0 |
| Upland Forest / Woodland | 8.96 | 9.05 | 459.4 |
| Open Water | 9.05 | 9.05 | 23.0 |
| Upland Forest / Woodland | 9.05 | 9.10 | 228.7 |
| Upland Open Land | 9.10 | 9.10 | 41.9 |
| Upland Forest / Woodland | 9.10 | 9.11 | 17.1 |
| Upland Open Land | 9.11 | 9.12 | 76.9 |
| Agriculture | 9.12 | 9.34 | 1,154.3 |
| Commercial/Industrial | 9.34 | 9.34 | 20.1 |
| Upland Open Land | 9.34 | 9.35 | 15.6 |
| Upland Forest / Woodland | 9.35 | 9.36 | 52.2 |
| Upland Open Land | 9.36 | 9.42 | 349.3 |
| Upland Forest / Woodland | 9.42 | 9.52 | 486.3 |
| Agriculture | 9.52 | 9.59 | 373.1 |
| Upland Open Land | 9.59 | 9.59 | 22.2 |
| Upland Forest / Woodland | 9.59 | 9.67 | 411.0 |
| Wetland | 9.67 | 9.71 | 211.0 |
| Upland Forest / Woodland | 9.71 | 9.72 | 50.1 |
| Upland Open Land | 9.72 | 9.75 | 152.3 |
| Wetland | 9.75 | 9.78 | 181.5 |
| Upland Open Land | 9.78 | 9.81 | 147.2 |
| Agriculture | 9.81 | 9.84 | 163.2 |
| Upland Open Land | 9.84 | 9.85 | 50.9 |
| Upland Forest / Woodland | 9.85 | 9.86 | 45.1 |
| Upland Open Land | 9.86 | 9.88 | 102.1 |
| Agriculture | 9.88 | 9.89 | 55.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 9.89 | 9.89 | 11.7 |
| Upland Forest / Woodland | 9.89 | 9.90 | 40.0 |
| Open Water | 9.90 | 9.90 | 2.6 |
| Upland Forest / Woodland | 9.90 | 9.90 | 14.0 |
| Wetland | 9.90 | 9.91 | 26.7 |
| Upland Forest / Woodland | 9.91 | 9.92 | 89.8 |
| Open Water | 9.92 | 9.93 | 13.9 |
| Upland Forest / Woodland | 9.93 | 9.94 | 75.7 |
| Wetland | 9.94 | 9.95 | 40.2 |
| Upland Forest / Woodland | 9.95 | 10.07 | 670.7 |
| Upland Open Land | 10.07 | 10.08 | 14.1 |
| Upland Forest / Woodland | 10.08 | 10.08 | 18.6 |
| Wetland | 10.08 | 10.08 | 3.3 |
| Upland Forest / Woodland | 10.08 | 10.13 | 272.4 |
| Upland Open Land | 10.13 | 10.14 | 36.0 |
| Upland Forest / Woodland | 10.14 | 10.20 | 322.7 |
| Upland Open Land | 10.20 | 10.21 | 26.4 |
| Commercial/Industrial | 10.21 | 10.21 | 33.3 |
| Upland Open Land | 10.21 | 10.22 | 58.2 |
| Residential | 10.22 | 10.26 | 193.7 |
| Upland Open Land | 10.26 | 10.34 | 401.6 |
| Upland Forest / Woodland | 10.34 | 10.44 | 530.6 |
| Commercial/Industrial | 10.44 | 10.44 | 9.3 |
| Upland Forest / Woodland | 10.44 | 10.71 | 1,456.2 |
| Residential | 10.71 | 10.74 | 146.2 |
| Commercial/Industrial | 10.74 | 10.75 | 27.9 |
| Upland Open Land | 10.75 | 10.76 | 54.7 |
| Upland Forest / Woodland | 10.76 | 10.79 | 157.3 |
| Upland Open Land | 10.79 | 10.99 | 1,068.0 |
| Upland Forest / Woodland | 10.99 | 11.03 | 220.1 |
| Open Water | 11.03 | 11.04 | 27.0 |
| Upland Forest / Woodland | 11.04 | 11.04 | 11.5 |
| Open Water | 11.04 | 11.04 | 4.3 |
| Upland Forest / Woodland | 11.04 | 11.04 | 18.1 |
| Open Water | 11.04 | 11.04 | 8.8 |
| Upland Forest / Woodland | 11.04 | 11.06 | 108.8 |
| Upland Open Land | 11.06 | 11.17 | 554.2 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 11.17 | 11.24 | 353.9 |
| Agriculture | 11.24 | 11.25 | 77.6 |
| Upland Forest / Woodland | 11.25 | 11.26 | 71.9 |
| Upland Open Land | 11.26 | 11.27 | 29.1 |
| Upland Forest / Woodland | 11.27 | 11.39 | 636.0 |
| Open Water | 11.39 | 11.39 | 11.6 |
| Upland Forest / Woodland | 11.39 | 11.40 | 59.5 |
| Upland Open Land | 11.40 | 11.49 | 435.7 |
| Upland Forest / Woodland | 11.49 | 11.49 | 16.7 |
| Upland Open Land | 11.49 | 11.54 | 267.1 |
| Upland Forest / Woodland | 11.54 | 11.62 | 394.5 |
| Wetland | 11.62 | 11.62 | 29.0 |
| Open Water | 11.62 | 11.62 | 4.2 |
| Wetland | 11.62 | 11.63 | 20.0 |
| Upland Forest / Woodland | 11.63 | 11.91 | 1,487.0 |
| Open Water | 11.91 | 11.91 | 22.9 |
| Upland Forest / Woodland | 11.91 | 12.00 | 449.8 |
| Upland Open Land | 12.00 | 12.00 | 24.0 |
| Upland Forest / Woodland | 12.00 | 12.05 | 255.9 |
| Upland Open Land | 12.05 | 12.12 | 397.2 |
| Upland Forest / Woodland | 12.12 | 12.18 | 305.6 |
| Agriculture | 12.18 | 12.36 | 913.4 |
| Commercial/Industrial | 12.36 | 12.36 | 23.5 |
| Agriculture | 12.36 | 12.51 | 787.8 |
| Upland Forest / Woodland | 12.51 | 12.52 | 71.7 |
| Agriculture | 12.52 | 12.72 | 1,019.4 |
| Upland Forest / Woodland | 12.72 | 12.73 | 97.1 |
| Upland Open Land | 12.73 | 12.74 | 12.7 |
| Upland Forest / Woodland | 12.74 | 12.76 | 143.7 |
| Wetland | 12.76 | 12.77 | 7.5 |
| Open Water | 12.77 | 12.77 | 15.3 |
| Wetland | 12.77 | 12.77 | 5.8 |
| Upland Forest / Woodland | 12.77 | 13.04 | 1,405.1 |
| Upland Open Land | 13.04 | 13.24 | 1,091.2 |
| Upland Forest / Woodland | 13.24 | 13.27 | 134.2 |
| Upland Open Land | 13.27 | 13.37 | 557.9 |
| Commercial/Industrial | 13.37 | 13.38 | 20.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 13.38 | 13.38 | 28.9 |
| Upland Forest / Woodland | 13.38 | 13.42 RR | 201.4 |
| Wetland | 13.42 RR | 13.43 RR | 63.5 |
| Open Water | 13.43 RR | 13.44 RR | 11.3 |
| Upland Forest / Woodland | 13.44 RR | 13.45 RR | 67.8 |
| Wetland | 13.45 RR | 13.45 RR | 19.6 |
| Upland Forest / Woodland | 13.45 RR | 13.46 RR | 25.6 |
| Wetland | 13.46 RR | 13.46 RR | 6.7 |
| Upland Forest / Woodland | 13.46 RR | 13.46 RR | 20.3 |
| Wetland | 13.46 RR | 13.47 RR | 23.1 |
| Upland Forest / Woodland | 13.47 RR | 13.52 RR | 281.5 |
| Upland Open Land | 13.52 RR | 13.58 RR | 307.6 |
| Upland Forest / Woodland | 13.58 RR | 13.59 RR | 75.8 |
| Upland Open Land | 13.59 RR | 13.6 RR | 47.8 |
| Upland Forest / Woodland | 13.60 RR | 13.76 RR | 861.0 |
| Upland Open Land | 13.76 RR | 13.79 RR | 158.7 |
| Upland Forest / Woodland | 13.79 RR | 13.83 RR | 167.2 |
| Upland Open Land | 13.83 RR | 13.83 RR | 49.1 |
| Upland Forest / Woodland | 13.83 RR | 13.96 RR | 634.1 |
| Upland Open Land | 13.96 RR | 13.99 RR | 195.5 |
| Upland Forest / Woodland | 13.99 RR | 14.06 RR | 363.6 |
| Upland Open Land | 14.06 RR | 14.22 RR | 847.0 |
| Upland Forest / Woodland | 14.22 RR | 14.31 RR | 480.4 |
| Wetland | 14.31 RR | 14.32 RR | 60.6 |
| Upland Forest / Woodland | 14.32 RR | 14.34 RR | 70.8 |
| Open Water | 14.34 RR | 14.34 RR | 9.8 |
| Upland Forest / Woodland | 14.34 RR | 14.59 RR | 1,343.3 |
| Upland Open Land | 14.59 RR | 14.61 RR | 83.3 |
| Upland Forest / Woodland | 14.61 RR | 14.62 RR | 56.2 |
| Upland Open Land | 14.62 RR | 14.63 RR | 35.4 |
| Upland Forest / Woodland | 14.63 RR | 14.70 RR | 362.5 |
| Upland Open Land | 14.70 RR | 14.70 | 417.6 |
| Upland Forest / Woodland | 14.70 | 14.72 | 96.8 |
| Open Water | 14.72 | 14.72 | 2.5 |
| Wetland | 14.72 | 14.72 | 3.3 |
| Upland Forest / Woodland | 14.72 | 14.75 | 122.8 |
| Upland Open Land | 14.75 | 14.85 | 536.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Commercial/Industrial | 14.85 | 14.85 | 24.0 |
| Agriculture | 14.85 | 15.21 | 1,891.3 |
| Upland Open Land | 15.21 | 15.21 | 17.8 |
| Upland Forest / Woodland | 15.21 | 15.22 | 29.2 |
| Open Water | 15.22 | 15.22 | 5.1 |
| Upland Forest / Woodland | 15.22 | 15.28 | 314.4 |
| Agriculture | 15.28 | 15.37 RR | 479.5 |
| Upland Forest / Woodland | 15.37 RR | 15.37 RR | 9.7 |
| Upland Open Land | 15.37 RR | 15.38 RR | 42.1 |
| Silviculture | 15.38 RR | 15.46 | 420.8 |
| Upland Forest / Woodland | 15.46 | 15.47 | 38.2 |
| Upland Open Land | 15.47 | 15.66 | 1,038.2 |
| Upland Forest / Woodland | 15.66 | 15.69 | 159.3 |
| Open Water | 15.69 | 15.70 | 24.0 |
| Upland Forest / Woodland | 15.70 | 15.85 | 792.8 |
| Upland Open Land | 15.85 | 15.86 | 73.6 |
| Upland Forest / Woodland | 15.86 | 15.87 | 27.0 |
| Open Water | 15.87 | 15.87 | 6.3 |
| Upland Forest / Woodland | 15.87 | 15.93 | 320.7 |
| Upland Open Land | 15.93 | 15.93 | 12.1 |
| Commercial/Industrial | 15.93 | 15.94 | 23.4 |
| Upland Open Land | 15.94 | 15.95 | 49.3 |
| Upland Forest / Woodland | 15.95 | 16.00 | 285.8 |
| Open Water | 16.00 | 16.00 | 4.9 |
| Upland Forest / Woodland | 16.00 | 16.01 | 21.3 |
| Open Water | 16.01 | 16.01 | 2.0 |
| Upland Forest / Woodland | 16.01 | 16.04 | 174.2 |
| Upland Open Land | 16.04 | 16.10 | 336.2 |
| Upland Forest / Woodland | 16.10 | 16.11 | 18.7 |
| Upland Open Land | 16.11 | 16.13 | 151.1 |
| Upland Forest / Woodland | 16.13 | 16.14 | 32.9 |
| Upland Open Land | 16.14 | 16.15 | 73.4 |
| Upland Forest / Woodland | 16.15 | 16.16 | 37.6 |
| Open Water | 16.16 | 16.16 | 2.5 |
| Wetland | 16.16 | 16.17 | 39.2 |
| Upland Forest / Woodland | 16.17 | 16.26 | 502.0 |
| Agriculture | 16.26 | 16.44 | 933.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Commercial/Industrial | 16.44 | 16.45 | 41.4 |
| Agriculture | 16.45 | 16.50 | 265.3 |
| Upland Forest / Woodland | 16.50 | 16.51 | 66.8 |
| Agriculture | 16.51 | 16.58 | 374.2 |
| Upland Forest / Woodland | 16.58 | 16.59 | 25.5 |
| Agriculture | 16.59 | 16.68 | 502.0 |
| Upland Forest / Woodland | 16.68 | 16.71 | 152.7 |
| Upland Open Land | 16.71 | 16.72 | 22.0 |
| Agriculture | 16.72 | 16.79 | 369.9 |
| Upland Forest / Woodland | 16.79 | 16.79 | 43.9 |
| Open Water | 16.79 | 16.80 | 5.7 |
| Upland Forest / Woodland | 16.80 | 16.81 | 73.2 |
| Agriculture | 16.81 | 16.94 | 697.2 |
| Upland Forest / Woodland | 16.94 | 16.96 | 71.3 |
| Open Water | 16.96 | 16.96 | 2.4 |
| Upland Forest / Woodland | 16.96 | 16.99 | 168.1 |
| Agriculture | 16.99 | 17.06 | 378.3 |
| Upland Forest / Woodland | 17.06 | 17.06 | 20.1 |
| Agriculture | 17.06 | 17.12 | 307.8 |
| Upland Forest / Woodland | 17.12 | 17.13 | 54.3 |
| Agriculture | 17.13 | 17.23 | 531.9 |
| Upland Open Land | 17.23 | 17.26 | 125.0 |
| Upland Forest / Woodland | 17.26 | 17.30 | 215.7 |
| Open Water | 17.30 | 17.30 | 11.6 |
| Upland Forest / Woodland | 17.30 | 17.34 | 226.2 |
| Upland Open Land | 17.34 | 17.50 RR | 839.3 |
| Upland Forest / Woodland | 17.50 RR | 17.50 RR | 5.5 |
| Upland Open Land | 17.50 RR | 17.57 RR | 345.7 |
| Upland Forest / Woodland | 17.57 RR | 17.66 RR | 501.9 |
| Open Water | 17.66 RR | 17.68 RR | 113.4 |
| Upland Forest / Woodland | 17.68 RR | 17.69 RR | 32.9 |
| Wetland | 17.69 RR | 17.70 RR | 34.4 |
| Upland Forest / Woodland | 17.70 RR | 17.81 RR | 600.9 |
| Open Water | 17.81 RR | 17.81 RR | 5.9 |
| Upland Forest / Woodland | 17.81 RR | 18.01 | 1,441.6 |
| Open Water | 18.01 | 18.02 | 6.0 |
| Upland Forest / Woodland | 18.02 | 18.11 | 477.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 18.11 | 18.12 | 85.1 |
| Upland Forest / Woodland | 18.12 | 18.23 | 550.7 |
| Upland Open Land | 18.23 | 18.25 | 148.2 |
| Commercial/Industrial | 18.25 | 18.26 | 26.2 |
| Agriculture | 18.26 | 18.43 | 908.9 |
| Upland Forest / Woodland | 18.43 | 18.51 | 424.5 |
| Agriculture | 18.51 | 18.63 | 618.0 |
| Upland Forest / Woodland | 18.63 | 18.68 | 247.6 |
| Upland Open Land | 18.68 | 18.89 | 1,114.8 |
| Upland Forest / Woodland | 18.89 | 18.96 | 361.3 |
| Upland Open Land | 18.96 | 19.00 | 241.9 |
| Upland Forest / Woodland | 19.00 | 19.01 | 70.7 |
| Commercial/Industrial | 19.01 | 19.03 | 66.4 |
| Upland Open Land | 19.03 | 19.05 | 109.9 |
| Agriculture | 19.05 | 19.20 | 828.2 |
| Residential | 19.20 | 19.23 | 155.4 |
| Upland Open Land | 19.23 | 19.24 | 46.8 |
| Commercial/Industrial | 19.24 | 19.25 | 37.6 |
| Agriculture | 19.25 | 19.33 | 444.0 |
| Upland Forest / Woodland | 19.33 | 19.34 | 3.3 |
| Agriculture | 19.34 | 19.42 | 434.2 |
| Upland Open Land | 19.42 | 19.43 | 88.9 |
| Open Water | 19.43 | 19.43 | 3.8 |
| Upland Open Land | 19.43 | 19.44 | 21.0 |
| Upland Forest / Woodland | 19.44 | 19.44 | 18.3 |
| Upland Open Land | 19.44 | 19.45 | 34.2 |
| Upland Forest / Woodland | 19.45 | 19.50 | 245.1 |
| Residential | 19.50 | 19.50 | 20.5 |
| Upland Open Land | 19.50 | 19.51 | 38.0 |
| Upland Forest / Woodland | 19.51 | 19.54 | 170.3 |
| Upland Open Land | 19.54 | 19.55 | 58.9 |
| Upland Forest / Woodland | 19.55 | 19.56 | 44.2 |
| Upland Open Land | 19.56 | 19.56 | 25.7 |
| Upland Forest / Woodland | 19.56 | 19.59 | 154.0 |
| Upland Open Land | 19.59 | 19.60 | 18.3 |
| Upland Forest / Woodland | 19.60 | 19.60 | 18.3 |
| Upland Open Land | 19.60 | 19.62 | 126.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 19.62 | 19.63 | 57.2 |
| Upland Open Land | 19.63 | 19.67 | 207.0 |
| Upland Forest / Woodland | 19.67 | 19.68 | 41.0 |
| Upland Open Land | 19.68 | 19.68 | 3.3 |
| Upland Forest / Woodland | 19.68 | 19.71 | 170.0 |
| Open Water | 19.71 | 19.72 | 8.9 |
| Upland Open Land | 19.72 | 19.72 | 50.9 |
| Upland Forest / Woodland | 19.72 | 19.73 | 26.8 |
| Upland Open Land | 19.73 | 19.79 | 309.2 |
| Upland Forest / Woodland | 19.79 | 19.79 | 12.1 |
| Upland Open Land | 19.79 | 19.87 | 443.6 |
| Upland Forest / Woodland | 19.87 | 19.93 | 310.2 |
| Upland Open Land | 19.93 | 19.94 | 35.3 |
| Commercial/Industrial | 19.94 | 19.97 | 181.4 |
| Upland Open Land | 19.97 | 20.09 | 613.3 |
| Residential | 20.09 | 20.12 | 147.0 |
| Upland Open Land | 20.12 | 20.14 | 109.5 |
| Residential | 20.14 | 20.17 | 151.0 |
| Upland Open Land | 20.17 | 20.17 | 19.9 |
| Upland Forest / Woodland | 20.17 | 20.19 | 87.9 |
| Upland Open Land | 20.19 | 20.23 | 213.7 |
| Upland Forest / Woodland | 20.23 | 20.28 | 283.8 |
| Agriculture | 20.28 | 20.37 | 441.1 |
| Upland Forest / Woodland | 20.37 | 20.38 | 72.5 |
| Wetland | 20.38 | 20.38 | 5.3 |
| Open Water | 20.38 | 20.38 | 9.3 |
| Wetland | 20.38 | 20.38 | 3.0 |
| Open Water | 20.38 | 20.38 | 4.3 |
| Upland Forest / Woodland | 20.38 | 20.39 | 7.7 |
| Upland Open Land | 20.39 | 20.50 | 610.9 |
| Agriculture | 20.50 | 20.53 | 145.8 |
| Upland Open Land | 20.53 | 20.58 | 246.3 |
| Upland Forest / Woodland | 20.58 | 20.60 | 152.1 |
| Open Water | 20.60 | 20.61 | 6.2 |
| Wetland | 20.61 | 20.61 | 2.2 |
| Upland Forest / Woodland | 20.61 | 20.61 | 24.8 |
| Upland Open Land | 20.61 | 20.66 | 271.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 20.66 | 20.70 | 201.1 |
| Upland Open Land | 20.70 | 20.74 | 233.2 |
| Upland Forest / Woodland | 20.74 | 20.87 | 663.2 |
| Agriculture | 20.87 | 20.90 | 141.2 |
| Upland Open Land | 20.90 | 20.92 | 118.4 |
| Agriculture | 20.92 | 20.94 | 110.1 |
| Upland Forest / Woodland | 20.94 | 20.97 | 168.2 |
| Open Water | 20.97 | 20.97 | 7.8 |
| Upland Forest / Woodland | 20.97 | 20.98 | 38.6 |
| Wetland | 20.98 | 20.99 | 53.6 |
| Upland Forest / Woodland | 20.99 | 21.07 | 441.0 |
| Upland Open Land | 21.07 | 21.16 | 463.4 |
| Upland Forest / Woodland | 21.16 | 21.18 | 120.0 |
| Upland Open Land | 21.18 | 21.22 | 192.1 |
| Wetland | 21.22 | 21.23 | 54.1 |
| Upland Forest / Woodland | 21.23 | 21.24 | 29.1 |
| Open Water | 21.24 | 21.24 | 4.4 |
| Upland Forest / Woodland | 21.24 | 21.24 | 13.1 |
| Wetland | 21.24 | 21.26 | 82.6 |
| Upland Forest / Woodland | 21.26 | 21.29 | 189.6 |
| Upland Open Land | 21.29 | 21.34 | 262.8 |
| Upland Forest / Woodland | 21.34 | 21.81 | 2,498.6 |
| Residential | 21.81 | 21.85 | 209.1 |
| Upland Forest / Woodland | 21.85 | 21.91 | 305.0 |
| Upland Open Land | 21.91 | 21.92 | 18.8 |
| Upland Forest / Woodland | 21.92 | 22.00 | 453.4 |
| Wetland | 22.00 | 22.00 | 2.4 |
| Open Water | 22.00 | 22.01 | 18.6 |
| Wetland | 22.01 | 22.01 | 4.8 |
| Upland Forest / Woodland | 22.01 | 22.02 | 53.4 |
| Residential | 22.02 | 22.04 | 107.7 |
| Upland Open Land | 22.04 | 22.04 | 2.1 |
| Wetland | 22.04 | 22.04 | 35.2 |
| Upland Open Land | 22.04 | 22.04 | 0.0 |
| Commercial/Industrial | 22.04 | 22.05 | 25.9 |
| Upland Open Land | 22.05 | 22.05 | 31.1 |
| Upland Forest / Woodland | 22.05 | 22.07 | 58.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Open Water | 22.07 | 22.07 | 0.8 |
| Upland Forest / Woodland | 22.07 | 22.07 | 8.1 |
| Wetland | 22.07 | 22.07 | 18.8 |
| Upland Forest / Woodland | 22.07 | 22.10 | 133.3 |
| Upland Open Land | 22.10 | 22.10 | 12.2 |
| Upland Forest / Woodland | 22.10 | 22.17 | 396.3 |
| Open Water | 22.17 | 22.18 | 8.3 |
| Upland Forest / Woodland | 22.18 | 22.27 | 490.5 |
| Upland Open Land | 22.27 | 22.27 | 14.7 |
| Upland Forest / Woodland | 22.27 | 22.34 | 385.3 |
| Upland Open Land | 22.34 | 22.35 | 6.2 |
| Upland Forest / Woodland | 22.35 | 22.43 RR | 464.4 |
| Upland Open Land | 22.43 RR | 22.46 RR | 133.8 |
| Upland Forest / Woodland | 22.46 RR | 22.49 RR | 169.3 |
| Open Water | 22.49 RR | 22.49 RR | 4.1 |
| Upland Forest / Woodland | 22.49 RR | 22.71 RR | 1,161.8 |
| Open Water | 22.71 RR | 22.71 RR | 4.0 |
| Upland Forest / Woodland | 22.71 RR | 23.02 RR | 1,606.1 |
| Upland Open Land | 23.02 RR | 23.02 RR | 40.3 |
| Upland Forest / Woodland | 23.02 RR | 23.06 RR | 203.1 |
| Wetland | 23.06 RR | 23.07 RR | 20.1 |
| Upland Forest / Woodland | 23.07 RR | 23.18 RR | 579.4 |
| Open Water | 23.18 RR | 23.18 RR | 5.8 |
| Upland Forest / Woodland | 23.18 RR | 23.21 RR | 185.1 |
| Open Water | 23.21 RR | 23.22 RR | 24.6 |
| Upland Forest / Woodland | 23.22 RR | 23.5 RR | 1,506.4 |
| Upland Open Land | 23.5 RR | 23.51 RR | 25.6 |
| Upland Forest / Woodland | 23.51 RR | 23.56 RR | 255.9 |
| Open Water | 23.56 RR | 23.56 RR | 7.6 |
| Upland Forest / Woodland | 23.56 RR | 23.76 RR | 1,054.6 |
| Upland Open Land | 23.76 RR | 23.76 RR | 4.4 |
| Commercial/Industrial | 23.76 RR | 23.76 RR | 22.8 |
| Upland Open Land | 23.76 RR | 23.76 RR | 16.1 |
| Upland Forest / Woodland | 23.76 RR | 23.8 RR | 173.5 |
| Upland Open Land | 23.8 RR | 23.81 RR | 48.9 |
| Upland Forest / Woodland | 23.81 RR | 23.89 RR | 458.4 |
| Open Water | 23.89 RR | 23.90 RR | 9.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 23.90 RR | 23.96 RR | 340.0 |
| Upland Open Land | 23.96 RR | 23.99 RR | 135.7 |
| Upland Forest / Woodland | 23.99 RR | 24.04 | 905.9 |
| Upland Open Land | 24.04 | 24.05 | 28.3 |
| Upland Forest / Woodland | 24.05 | 24.36 | 1,676.9 |
| Open Water | 24.36 | 24.37 | 7.6 |
| Upland Forest / Woodland | 24.37 | 24.69 | 1,695.3 |
| Upland Open Land | 24.69 | 24.72 | 176.6 |
| Upland Forest / Woodland | 24.72 | 24.78 | 326.0 |
| Open Water | 24.78 | 24.78 | 4.9 |
| Upland Forest / Woodland | 24.78 | 24.79 | 16.9 |
| Open Water | 24.79 | 24.79 | 3.9 |
| Upland Forest / Woodland | 24.79 | 24.84 | 296.0 |
| Upland Open Land | 24.84 | 24.84 | 9.9 |
| Upland Forest / Woodland | 24.84 | 24.96 | 622.4 |
| Upland Open Land | 24.96 | 24.97 | 17.5 |
| Commercial/Industrial | 24.97 | 24.97 | 44.6 |
| Upland Forest / Woodland | 24.97 | 25.06 | 435.4 |
| Upland Open Land | 25.06 | 25.06 | 24.4 |
| Upland Forest / Woodland | 25.06 | 25.12 | 325.9 |
| Open Water | 25.12 | 25.13 | 18.8 |
| Upland Forest / Woodland | 25.13 | 25.38 | 1,342.4 |
| Upland Open Land | 25.38 | 25.68 | 1,580.2 |
| Upland Forest / Woodland | 25.68 | 25.70 | 129.0 |
| Open Water | 25.70 | 25.71 | 11.0 |
| Upland Forest / Woodland | 25.71 | 25.85 | 750.3 |
| Wetland | 25.85 | 25.85 | 3.9 |
| Open Water | 25.85 | 25.85 | 6.3 |
| Wetland | 25.85 | 25.85 | 18.4 |
| Upland Forest / Woodland | 25.85 | 25.93 | 424.6 |
| Upland Open Land | 25.93 | 25.94 | 48.5 |
| Upland Forest / Woodland | 25.94 | 26.06 | 640.8 |
| Wetland | 26.06 | 26.08 | 96.5 |
| Upland Forest / Woodland | 26.08 | 26.18 | 521.4 |
| Upland Open Land | 26.18 | 26.20 | 79.1 |
| Upland Forest / Woodland | 26.20 | 26.21 | 75.3 |
| Upland Open Land | 26.21 | 26.22 | 23.1 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 26.22 | 26.22 | 35.6 |
| Upland Open Land | 26.22 | 26.23 | 53.1 |
| Commercial/Industrial | 26.23 | 26.24 | 34.0 |
| Upland Forest / Woodland | 26.24 | 26.53 | 1,551.4 |
| Wetland | 26.53 | 26.54 | 15.0 |
| Upland Forest / Woodland | 26.54 | 26.54 | 3.5 |
| Upland Open Land | 26.54 | 26.54 | 15.0 |
| Commercial/Industrial | 26.54 | 26.55 | 34.8 |
| Upland Open Land | 26.55 | 26.68 RR | 690.6 |
| Upland Forest / Woodland | 26.68 RR | 26.69 RR | 75.7 |
| Upland Open Land | 26.69 RR | 26.7 RR | 29.6 |
| Upland Forest / Woodland | 26.7 RR | 26.7 RR | 2.6 |
| Wetland | 26.7 RR | 26.71 RR | 71.6 |
| Upland Forest / Woodland | 26.71 RR | 26.71 RR | 17.4 |
| Upland Open Land | 26.71 RR | 26.83 | 605.7 |
| Upland Forest / Woodland | 26.83 | 26.94 RR | 617.5 |
| Commercial/Industrial | 26.94 RR | 26.95 RR | 18.7 |
| Upland Open Land | 26.95 RR | 26.95 RR | 24.1 |
| Agriculture | 26.95 RR | 27.07 RR | 631.1 |
| Wetland | 27.07 RR | 27.29 | 1,197.0 |
| Upland Open Land | 27.29 | 27.32 | 168.9 |
| Upland Forest / Woodland | 27.32 | 27.33 | 9.7 |
| Wetland | 27.33 | 27.33 | 37.9 |
| Open Water | 27.33 | 27.34 | 20.5 |
| Upland Forest / Woodland | 27.34 | 27.37 | 177.3 |
| Upland Open Land | 27.37 | 27.38 | 43.3 |
| Agriculture | 27.38 | 27.48 | 536.0 |
| Upland Open Land | 27.48 | 27.49 | 54.1 |
| Upland Forest / Woodland | 27.49 | 27.50 | 36.4 |
| Open Water | 27.50 | 27.52 | 137.5 |
| Upland Forest / Woodland | 27.52 | 27.52 | 9.1 |
| Upland Open Land | 27.52 | 27.55 | 117.6 |
| Wetland | 27.55 | 27.55 | 42.0 |
| Upland Open Land | 27.55 | 27.58 | 145.4 |
| Wetland | 27.58 | 27.59 | 38.1 |
| Upland Open Land | 27.59 | 27.60 | 46.6 |
| Silviculture | 27.60 | 27.62 RR | 110.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 27.62 RR | 27.64 RR | 111.9 |
| Agriculture | 27.64 RR | 27.76 RR | 611.7 |
| Silviculture | 27.76 RR | 27.78 RR | 114.8 |
| Agriculture | 27.78 RR | 27.86 RR | 444.1 |
| Silviculture | 27.86 RR | 27.89 RR | 139.1 |
| Agriculture | 27.89 RR | 27.97 RR | 437.6 |
| Upland Open Land | 27.97 RR | 28.11 RR | 713.7 |
| Wetland | 28.11 RR | 28.11 RR | 23.5 |
| Upland Open Land | 28.11 RR | 28.23 RR | 642.7 |
| Upland Forest / Woodland | 28.23 RR | 28.25 RR | 108.7 |
| Upland Open Land | 28.25 RR | 28.29 RR | 214.2 |
| Wetland | 28.29 RR | 28.30 RR | 26.2 |
| Upland Open Land | 28.30 RR | 28.34 RR | 210.3 |
| Upland Forest / Woodland | 28.34 RR | 28.34 RR | 4.2 |
| Wetland | 28.34 RR | 28.34 RR | 17.8 |
| Upland Forest / Woodland | 28.34 RR | 28.38 RR | 184.0 |
| Open Water | 28.38 RR | 28.38 RR | 14.1 |
| Upland Forest / Woodland | 28.38 RR | 28.47 RR | 473.7 |
| Upland Open Land | 28.47 RR | 28.53 RR | 294.2 |
| Silviculture | 28.53 RR | 28.53 RR | 33.0 |
| Upland Forest / Woodland | 28.53 RR | 28.64 RR | 589.2 |
| Wetland | 28.64 RR | 28.65 RR | 40.6 |
| Upland Forest / Woodland | 28.65 RR | 28.79 | 735.5 |
| Upland Open Land | 28.79 | 28.79 | 23.6 |
| Upland Forest / Woodland | 28.79 | 28.98 | 970.1 |
| Upland Open Land | 28.98 | 28.98 | 34.4 |
| Upland Forest / Woodland | 28.98 | 29.09 | 556.0 |
| Wetland | 29.09 | 29.09 | 23.4 |
| Upland Forest / Woodland | 29.09 | 29.18 | 461.1 |
| Upland Open Land | 29.18 | 29.18 | 13.4 |
| Upland Forest / Woodland | 29.18 | 29.19 | 18.4 |
| Upland Open Land | 29.19 | 29.19 | 13.4 |
| Upland Forest / Woodland | 29.19 | 29.23 | 227.1 |
| Upland Open Land | 29.23 | 29.24 | 36.3 |
| Upland Forest / Woodland | 29.24 | 29.27 | 168.1 |
| Upland Open Land | 29.27 | 29.28 RR | 46.6 |
| Upland Forest / Woodland | 29.28 RR | 29.30 RR | 127.0 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 29.30 RR | 29.31 RR | 17.0 |
| Upland Forest / Woodland | 29.31 RR | 29.59 | 1,616.1 |
| Agriculture | 29.59 | 29.67 | 419.3 |
| Upland Forest / Woodland | 29.67 | 29.68 | 64.2 |
| Wetland | 29.68 | 29.87 | 984.4 |
| Upland Open Land | 29.87 | 29.87 | 12.2 |
| Agriculture | 29.87 | 30.04 | 920.9 |
| Upland Forest / Woodland | 30.04 | 30.05 | 58.8 |
| Open Water | 30.05 | 30.10 | 247.3 |
| Upland Forest / Woodland | 30.10 | 30.11 | 62.8 |
| Agriculture | 30.11 | 30.19 | 398.3 |
| Wetland | 30.19 | 30.19 | 24.6 |
| Agriculture | 30.19 | 30.20 | 21.0 |
| Wetland | 30.20 | 30.21 | 40.5 |
| Agriculture | 30.21 | 30.21 | 40.1 |
| Wetland | 30.21 | 30.22 | 29.9 |
| Agriculture | 30.22 | 30.22 | 21.3 |
| Wetland | 30.22 | 30.23 | 31.6 |
| Agriculture | 30.23 | 30.24 | 65.2 |
| Wetland | 30.24 | 30.25 | 36.4 |
| Agriculture | 30.25 | 30.26 | 44.7 |
| Wetland | 30.26 | 30.27 | 48.2 |
| Upland Forest / Woodland | 30.27 | 30.31 | 244.5 |
| Upland Open Land | 30.31 | 30.32 | 33.3 |
| Upland Forest / Woodland | 30.32 | 30.32 | 6.9 |
| Wetland | 30.32 | 30.32 | 17.9 |
| Upland Forest / Woodland | 30.32 | 30.33 | 19.6 |
| Upland Open Land | 30.33 | 30.36 | 183.9 |
| Wetland | 30.36 | 30.37 | 26.7 |
| Upland Open Land | 30.37 | 30.43 | 360.6 |
| Commercial/Industrial | 30.43 | 30.44 | 19.6 |
| Upland Open Land | 30.44 | 30.44 | 2.6 |
| Wetland | 30.44 | 30.47 | 179.8 |
| Upland Forest / Woodland | 30.47 | 30.47 | 10.6 |
| Upland Open Land | 30.47 | 30.48 | 6.0 |
| Commercial/Industrial | 30.48 | 30.48 | 23.0 |
| Upland Open Land | 30.48 | 30.64 | 862.2 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Commercial/Industrial | 30.64 | 30.66 | 82.8 |
| Residential | 30.66 | 30.67 | 50.6 |
| Upland Open Land | 30.67 | 30.70 | 151.8 |
| Wetland | 30.70 | 30.70 | 11.2 |
| Upland Open Land | 30.70 | 30.85 | 777.2 |
| Upland Forest / Woodland | 30.85 | 30.85 | 18.3 |
| Upland Open Land | 30.85 | 30.91 | 306.7 |
| Upland Forest / Woodland | 30.91 | 31.29 | 2,023.5 |
| Open Water | 31.29 | 31.30 | 28.3 |
| Upland Forest / Woodland | 31.30 | 31.62 | 1,707.8 |
| Upland Open Land | 31.62 | 31.63 | 53.6 |
| Commercial/Industrial | 31.63 | 31.64 | 27.6 |
| Upland Open Land | 31.64 | 31.66 | 115.6 |
| Upland Forest / Woodland | 31.66 | 31.68 | 128.5 |
| Upland Open Land | 31.68 | 31.69 | 54.7 |
| Upland Forest / Woodland | 31.69 | 31.73 | 201.5 |
| Upland Open Land | 31.73 | 31.77 | 207.7 |
| Upland Forest / Woodland | 31.77 | 31.96 | 1,006.2 |
| Wetland | 31.96 | 31.96 | 5.8 |
| Upland Forest / Woodland | 31.96 | 31.99 | 145.4 |
| Wetland | 31.99 | 32.02 | 176.8 |
| Upland Forest / Woodland | 32.02 | 32.03 | 32.2 |
| Upland Open Land | 32.03 | 32.03 | 31.3 |
| Upland Forest / Woodland | 32.03 | 32.15 | 618.7 |
| Upland Open Land | 32.15 | 32.16 | 60.7 |
| Upland Forest / Woodland | 32.16 | 32.18 | 61.5 |
| Open Water | 32.18 | 32.19 | 102.6 |
| Upland Forest / Woodland | 32.19 | 32.20 | 51.1 |
| Upland Open Land | 32.20 | 32.22 | 68.9 |
| Wetland | 32.22 | 32.24 | 104.5 |
| Upland Open Land | 32.24 | 32.47 | 1,219.7 |
| Upland Forest / Woodland | 32.47 | 32.48 | 37.6 |
| Upland Open Land | 32.48 | 32.50 | 149.6 |
| Upland Forest / Woodland | 32.50 | 32.52 | 74.3 |
| Upland Open Land | 32.52 | 32.58 | 336.1 |
| Upland Forest / Woodland | 32.58 | 32.61 | 171.4 |
| Upland Open Land | 32.61 | 32.62 | 15.3 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Wetland | 32.62 | 32.62 | 21.1 |
| Upland Open Land | 32.62 | 32.63 | 51.9 |
| Upland Forest / Woodland | 32.63 | 32.63 | 23.4 |
| Wetland | 32.63 | 32.64 | 29.4 |
| Upland Forest / Woodland | 32.64 | 32.65 | 70.4 |
| Open Water | 32.65 | 32.66 | 55.4 |
| Upland Open Land | 32.66 | 32.66 | 2.0 |
| Upland Forest / Woodland | 32.66 | 32.86 | 1,046.6 |
| Upland Open Land | 32.86 | 32.87 | 46.7 |
| Upland Forest / Woodland | 32.87 | 32.88 | 24.5 |
| Upland Open Land | 32.88 | 32.88 | 16.2 |
| Upland Forest / Woodland | 32.88 | 32.93 | 252.1 |
| Upland Open Land | 32.93 | 32.93 | 13.7 |
| Upland Forest / Woodland | 32.93 | 32.93 | 16.3 |
| Upland Open Land | 32.93 | 32.94 | 13.7 |
| Upland Forest / Woodland | 32.94 | 32.98 | 215.5 |
| Open Water | 32.98 | 32.99 | 47.9 |
| Upland Forest / Woodland | 32.99 | 33.03 | 221.9 |
| Upland Open Land | 33.03 | 33.10 | 409.6 |
| Wetland | 33.10 | 33.12 | 68.5 |
| Upland Forest / Woodland | 33.12 | 33.18 | 337.9 |
| Upland Open Land | 33.18 | 33.19 | 28.6 |
| Commercial/Industrial | 33.19 | 33.19 | 34.3 |
| Upland Forest / Woodland | 33.19 | 33.42 | 1,193.0 |
| Wetland | 33.42 | 33.43 | 42.6 |
| Upland Forest / Woodland | 33.43 | 33.56 | 707.4 |
| Upland Open Land | 33.56 | 33.59 | 138.9 |
| Upland Forest / Woodland | 33.59 | 33.69 | 556.6 |
| Wetland | 33.69 | 33.70 | 10.6 |
| Upland Forest / Woodland | 33.70 | 34.04 | 1,827.7 |
| Upland Open Land | 34.04 | 34.13 | 463.1 |
| Upland Forest / Woodland | 34.13 | 34.19 RR | 306.6 |
| Upland Open Land | 34.19 RR | 34.21 RR | 98.0 |
| Open Water | 34.21 RR | 34.21 RR | 32.9 |
| Upland Open Land | 34.21 RR | 34.28 | 367.5 |
| Upland Forest / Woodland | 34.28 | 34.36 | 425.1 |
| Upland Open Land | 34.36 | 34.36 | 38.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 34.36 | 34.38 | 99.7 |
| Upland Open Land | 34.38 | 34.40 | 84.8 |
| Upland Forest / Woodland | 34.40 | 34.65 | 1,320.3 |
| Open Water | 34.65 | 34.65 | 16.7 |
| Upland Forest / Woodland | 34.65 | 34.79 | 724.6 |
| Open Water | 34.79 | 34.79 | 23.3 |
| Upland Forest / Woodland | 34.79 | 34.99 | 1,012.7 |
| Upland Open Land | 34.99 | 34.99 | 34.7 |
| Open Water | 34.99 | 34.99 | 7.5 |
| Upland Open Land | 34.99 | 35.02 | 144.4 |
| Upland Forest / Woodland | 35.02 | 35.37 | 1,832.3 |
| Upland Open Land | 35.37 | 35.37 | 24.7 |
| Upland Forest / Woodland | 35.37 | 35.38 | 60.9 |
| Upland Open Land | 35.38 | 35.43 | 233.4 |
| Upland Forest / Woodland | 35.43 | 35.45 | 89.5 |
| Agriculture | 35.45 | 35.46 | 101.6 |
| Upland Open Land | 35.46 | 35.47 | 22.1 |
| Upland Forest / Woodland | 35.47 | 35.47 | 4.7 |
| Upland Open Land | 35.47 | 35.48 | 66.5 |
| Upland Forest / Woodland | 35.48 | 35.62 | 742.2 |
| Agriculture | 35.62 | 35.73 | 542.0 |
| Upland Forest / Woodland | 35.73 | 35.74 | 71.7 |
| Upland Open Land | 35.74 | 35.75 | 80.9 |
| Upland Forest / Woodland | 35.75 | 35.87 | 596.5 |
| Upland Open Land | 35.87 | 35.91 | 213.4 |
| Upland Forest / Woodland | 35.91 | 35.98 | 390.0 |
| Open Water | 35.98 | 35.98 | 9.9 |
| Upland Forest / Woodland | 35.98 | 36.14 | 805.6 |
| Upland Open Land | 36.14 | 36.14 | 29.1 |
| Upland Forest / Woodland | 36.14 | 36.24 | 539.0 |
| Upland Open Land | 36.24 | 36.25 | 16.1 |
| Agriculture | 36.25 | 36.28 | 163.9 |
| Commercial/Industrial | 36.28 | 36.28 | 34.3 |
| Agriculture | 36.28 | 36.51 | 1,216.1 |
| Upland Open Land | 36.51 | 36.61 | 482.7 |
| Commercial/Industrial | 36.61 | 36.61 | 24.9 |
| Upland Forest / Woodland | 36.61 | 36.80 | 1,016.4 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Agriculture | 36.80 | 36.86 | 318.1 |
| Upland Forest / Woodland | 36.86 | 36.96 | 512.9 |
| Upland Open Land | 36.96 | 36.99 | 181.8 |
| Upland Forest / Woodland | 36.99 | 37.01 | 90.2 |
| Wetland | 37.01 | 37.01 | 7.6 |
| Upland Forest / Woodland | 37.01 | 37.04 | 133.2 |
| Upland Open Land | 37.04 | 37.11 | 402.2 |
| Upland Forest / Woodland | 37.11 | 37.26 | 769.0 |
| Wetland | 37.26 | 37.26 | 8.3 |
| Upland Forest / Woodland | 37.26 | 37.43 | 888.3 |
| Upland Open Land | 37.43 | 37.45 | 117.3 |
| Upland Forest / Woodland | 37.45 | 37.52 | 364.7 |
| Upland Open Land | 37.52 | 37.57 | 281.9 |
| Upland Forest / Woodland | 37.57 | 37.59 | 75.6 |
| Upland Open Land | 37.59 | 37.72 | 706.1 |
| Upland Forest / Woodland | 37.72 | 37.74 | 91.7 |
| Open Water | 37.74 | 37.74 | 12.1 |
| Upland Forest / Woodland | 37.74 | 37.81 | 335.7 |
| Upland Open Land | 37.81 | 37.82 | 75.8 |
| Upland Forest / Woodland | 37.82 | 38.05 | 1,224.5 |
| Upland Open Land | 38.05 | 38.18 | 704.9 |
| Upland Forest / Woodland | 38.18 | 38.19 | 18.6 |
| Open Water | 38.19 | 38.19 | 20.5 |
| Upland Forest / Woodland | 38.19 | 38.23 | 218.1 |
| Upland Open Land | 38.23 | 38.27 | 225.8 |
| Upland Forest / Woodland | 38.27 | 38.44 | 893.7 |
| Wetland | 38.44 | 38.47 | 129.7 |
| Upland Forest / Woodland | 38.47 | 38.51 | 224.4 |
| Wetland | 38.51 | 38.54 | 137.6 |
| Upland Forest / Woodland | 38.54 | 38.61 | 381.2 |
| Upland Open Land | 38.61 | 38.62 | 36.7 |
| Wetland | 38.62 | 38.64 | 109.5 |
| Upland Open Land | 38.64 | 38.65 | 90.6 |
| Wetland | 38.65 | 38.66 | 16.3 |
| Upland Open Land | 38.66 | 38.67 | 91.0 |
| Wetland | 38.67 | 38.68 | 28.7 |
| Upland Open Land | 38.68 | 38.71 | 150.4 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Wetland | 38.71 | 38.71 | 16.1 |
| Upland Open Land | 38.71 | 38.74 | 129.4 |
| Upland Forest / Woodland | 38.74 | 38.74 | 47.3 |
| Open Water | 38.74 | 38.76 | 53.1 |
| Upland Forest / Woodland | 38.76 | 38.81 | 297.0 |
| Upland Open Land | 38.81 | 38.82 | 21.5 |
| Commercial/Industrial | 38.82 | 38.82 | 23.0 |
| Upland Open Land | 38.82 | 38.83 | 50.8 |
| Upland Forest / Woodland | 38.83 | 38.93 | 513.4 |
| Upland Open Land | 38.93 | 38.94 | 50.1 |
| Upland Forest / Woodland | 38.94 | 39.33 | 2,081.4 |
| Agriculture | 39.33 | 39.36 | 162.4 |
| Upland Forest / Woodland | 39.36 | 39.40 | 190.0 |
| Upland Open Land | 39.40 | 39.45 | 278.1 |
| Upland Forest / Woodland | 39.45 | 39.51 | 336.1 |
| Upland Open Land | 39.51 | 39.55 | 207.4 |
| Upland Forest / Woodland | 39.55 | 39.58 | 123.9 |
| Upland Open Land | 39.58 | 39.58 | 7.0 |
| Upland Forest / Woodland | 39.58 | 39.62 | 215.9 |
| Upland Open Land | 39.62 | 39.62 | 0.6 |
| Upland Forest / Woodland | 39.62 | 39.65 | 144.1 |
| Wetland | 39.65 | 39.66 | 56.0 |
| Upland Forest / Woodland | 39.66 | 39.67 | 80.7 |
| Upland Open Land | 39.67 | 39.68 | 31.5 |
| Commercial/Industrial | 39.68 | 39.68 | 27.5 |
| Upland Forest / Woodland | 39.68 | 39.70 | 71.9 |
| Commercial/Industrial | 39.70 | 39.71 | 59.2 |
| Upland Open Land | 39.71 | 39.74 | 176.9 |
| Upland Forest / Woodland | 39.74 | 40.11 | 1,971.9 |
| Upland Open Land | 40.11 | 40.15 | 166.3 |
| Upland Forest / Woodland | 40.15 | 40.16 | 73.4 |
| Open Water | 40.16 | 40.17 | 26.9 |
| Upland Forest / Woodland | 40.17 | 40.29 RR | 674.1 |
| Upland Open Land | 40.29 RR | 40.31 RR | 65.0 |
| Upland Forest / Woodland | 40.31 RR | 40.36 RR | 286.8 |
| Upland Open Land | 40.36 RR | 40.36 RR | 13.5 |
| Commercial/Industrial | 40.36 RR | 40.37 RR | 18.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 40.37 RR | 40.37 RR | 47.3 |
| Upland Forest / Woodland | 40.37 RR | 40.38 RR | 35.5 |
| Upland Open Land | 40.38 RR | 40.39 RR | 45.6 |
| Upland Forest / Woodland | 40.39 RR | 40.41 RR | 129.1 |
| Agriculture | 40.41 RR | 40.46 RR | 244.9 |
| Upland Forest / Woodland | 40.46 RR | 40.46 | 295.4 |
| Agriculture | 40.46 | 40.49 | 184.8 |
| Upland Forest / Woodland | 40.49 | 40.91 | 2,195.6 |
| Upland Open Land | 40.91 | 40.91 | 31.9 |
| Upland Forest / Woodland | 40.91 | 41.11 | 1,050.2 |
| Wetland | 41.11 | 41.12 | 33.5 |
| Upland Forest / Woodland | 41.12 | 41.12 | 9.9 |
| Wetland | 41.12 | 41.13 | 50.1 |
| Upland Forest / Woodland | 41.13 | 41.15 | 101.5 |
| Open Water | 41.15 | 41.16 | 39.1 |
| Upland Forest / Woodland | 41.16 | 41.41 | 1,338.8 |
| Upland Open Land | 41.41 | 41.42 | 30.7 |
| Upland Forest / Woodland | 41.42 | 41.58 | 884.5 |
| Upland Open Land | 41.58 | 41.59 | 51.8 |
| Commercial/Industrial | 41.59 | 41.62 | 154.5 |
| Upland Open Land | 41.62 | 41.63 | 12.6 |
| Upland Forest / Woodland | 41.63 | 41.66 | 162.8 |
| Wetland | 41.66 | 41.66 | 5.8 |
| Upland Forest / Woodland | 41.66 | 41.72 | 325.2 |
| Upland Open Land | 41.72 | 41.79 | 392.6 |
| Upland Forest / Woodland | 41.79 | 41.80 | 43.3 |
| Open Water | 41.80 | 41.81 | 19.5 |
| Upland Forest / Woodland | 41.81 | 41.91 | 554.5 |
| Upland Open Land | 41.91 | 42.18 | 1,433.7 |
| Commercial/Industrial | 42.18 | 42.19 | 40.3 |
| Upland Open Land | 42.19 | 42.20 | 24.4 |
| Upland Forest / Woodland | 42.20 | 42.43 | 1,233.5 |
| Upland Open Land | 42.43 | 42.44 | 39.0 |
| Upland Forest / Woodland | 42.44 | 42.60 | 846.6 |
| Upland Open Land | 42.60 | 42.63 | 166.1 |
| Upland Forest / Woodland | 42.63 | 42.65 | 119.8 |
| Upland Open Land | 42.65 | 42.66 | 57.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 42.66 | 42.72 | 300.4 |
| Upland Open Land | 42.72 | 42.74 | 110.2 |
| Upland Forest / Woodland | 42.74 | 42.90 | 873.8 |
| Upland Open Land | 42.90 | 42.91 | 33.7 |
| Upland Forest / Woodland | 42.91 | 42.92 | 57.5 |
| Upland Open Land | 42.92 | 42.92 | 9.5 |
| Upland Forest / Woodland | 42.92 | 43.07 | 788.2 |
| Open Water | 43.07 | 43.08 | 12.0 |
| Upland Forest / Woodland | 43.08 | 43.15 | 376.3 |
| Upland Open Land | 43.15 | 43.15 | 36.4 |
| Commercial/Industrial | 43.15 | 43.16 | 24.1 |
| Upland Open Land | 43.16 | 43.16 | 23.7 |
| Upland Forest / Woodland | 43.16 | 43.26 | 523.1 |
| Open Water | 43.26 | 43.27 | 25.9 |
| Upland Forest / Woodland | 43.27 | 43.31 | 248.4 |
| Upland Open Land | 43.31 | 43.32 | 20.3 |
| Upland Forest / Woodland | 43.32 | 43.40 | 410.1 |
| Upland Open Land | 43.40 | 43.42 | 114.4 |
| Commercial/Industrial | 43.42 | 43.42 | 24.9 |
| Upland Open Land | 43.42 | 43.48 | 295.2 |
| Upland Forest / Woodland | 43.48 | 43.49 | 46.9 |
| Upland Open Land | 43.49 | 43.55 | 338.3 |
| Upland Forest / Woodland | 43.55 | 43.55 | 3.7 |
| Upland Open Land | 43.55 | 43.57 | 113.4 |
| Upland Forest / Woodland | 43.57 | 43.57 | 5.3 |
| Upland Open Land | 43.57 | 43.60 | 155.8 |
| Upland Forest / Woodland | 43.60 | 43.61 | 54.4 |
| Upland Open Land | 43.61 | 43.62 | 9.7 |
| Upland Forest / Woodland | 43.62 | 43.71 | 476.9 |
| Open Water | 43.71 | 43.71 | 44.6 |
| Upland Forest / Woodland | 43.71 | 43.72 | 36.7 |
| Open Water | 43.72 | 43.72 | 8.9 |
| Upland Forest / Woodland | 43.72 | 43.95 | 1,187.1 |
| Upland Open Land | 43.95 | 43.95 | 19.6 |
| Upland Forest / Woodland | 43.95 | 43.96 | 31.4 |
| Upland Open Land | 43.96 | 43.96 | 7.6 |
| Upland Forest / Woodland | 43.96 | 44.02 | 305.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 44.02 | 44.02 | 19.3 |
| Upland Forest / Woodland | 44.02 | 44.03 | 55.8 |
| Upland Open Land | 44.03 | 44.04 | 34.7 |
| Upland Forest / Woodland | 44.04 | 44.10 | 347.5 |
| Upland Open Land | 44.10 | 44.11 | 37.1 |
| Upland Forest / Woodland | 44.11 | 44.14 | 154.8 |
| Upland Open Land | 44.14 | 44.17 | 182.6 |
| Upland Forest / Woodland | 44.17 | 44.18 | 44.2 |
| Upland Open Land | 44.18 | 44.22 | 201.4 |
| Upland Forest / Woodland | 44.22 | 44.27 | 278.2 |
| Residential | 44.27 | 44.31 | 206.7 |
| Upland Forest / Woodland | 44.31 | 44.35 | 192.1 |
| Upland Open Land | 44.35 | 44.36 | 70.7 |
| Upland Forest / Woodland | 44.36 | 44.46 | 528.4 |
| Agriculture | 44.46 | 44.48 | 103.5 |
| Upland Forest / Woodland | 44.48 | 44.58 | 493.1 |
| Upland Open Land | 44.58 | 44.68 | 528.6 |
| Upland Forest / Woodland | 44.68 | 44.77 | 507.9 |
| Upland Open Land | 44.77 | 44.78 | 47.5 |
| Agriculture | 44.78 | 44.90 | 615.8 |
| Commercial/Industrial | 44.90 | 44.90 | 21.7 |
| Agriculture | 44.90 | 45.31 | 2,144.9 |
| Upland Forest / Woodland | 45.31 | 45.38 | 404.6 |
| Upland Open Land | 45.38 | 45.39 | 22.3 |
| Silviculture | 45.39 | 45.44 | 288.0 |
| Upland Open Land | 45.44 | 45.45 | 29.2 |
| Silviculture | 45.45 | 45.54 | 507.9 |
| Upland Open Land | 45.54 | 45.56 | 92.9 |
| Upland Forest / Woodland | 45.56 | 45.70 | 744.7 |
| Open Water | 45.70 | 45.71 | 22.9 |
| Upland Forest / Woodland | 45.71 | 45.71 | 27.5 |
| Upland Open Land | 45.71 | 45.79 | 408.1 |
| Upland Forest / Woodland | 45.79 | 45.80 | 38.3 |
| Upland Open Land | 45.80 | 45.81 | 78.4 |
| Upland Forest / Woodland | 45.81 | 45.89 | 428.2 |
| Upland Open Land | 45.89 | 46 RR | 580.2 |
| Upland Forest / Woodland | 46.00 RR | 46.14 RR | 725.1 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 46.14 RR | 46.15 RR | 58.6 |
| Upland Forest / Woodland | 46.15 RR | 46.25 RR | 542.6 |
| Agriculture | 46.25 RR | 46.28 RR | 149.8 |
| Upland Open Land | 46.28 RR | 46.28 RR | 12.1 |
| Upland Forest / Woodland | 46.28 RR | 46.29 RR | 37.7 |
| Agriculture | 46.29 RR | 46.30 RR | 49.7 |
| Upland Forest / Woodland | 46.30 RR | 46.47 | 885.6 |
| Upland Open Land | 46.47 | 46.54 | 375.0 |
| Agriculture | 46.54 | 46.59 | 239.0 |
| Upland Open Land | 46.59 | 46.69 | 504.9 |
| Agriculture | 46.69 | 46.69 | 32.5 |
| Upland Open Land | 46.69 | 46.71 | 76.8 |
| Upland Forest / Woodland | 46.71 | 46.74 | 166.1 |
| Agriculture | 46.74 | 46.80 | 322.6 |
| Upland Forest / Woodland | 46.80 | 46.98 | 939.7 |
| Open Water | 46.98 | 46.98 | 18.8 |
| Upland Forest / Woodland | 46.98 | 47.00 | 125.6 |
| Wetland | 47.00 | 47.01 | 46.6 |
| Upland Forest / Woodland | 47.01 | 47.02 | 32.6 |
| Upland Open Land | 47.02 | 47.15 | 672.8 |
| Upland Forest / Woodland | 47.15 | 47.15 | 40.6 |
| Upland Open Land | 47.15 | 47.23 | 420.5 |
| Upland Forest / Woodland | 47.23 | 47.73 | 2,635.1 |
| Open Water | 47.73 | 47.74 | 19.1 |
| Upland Forest / Woodland | 47.74 | 48.12 | 2,048.3 |
| Agriculture | 48.12 | 48.30 | 914.2 |
| Upland Forest / Woodland | 48.30 | 48.35 | 257.3 |
| Agriculture | 48.35 | 48.41 | 343.2 |
| Commercial/Industrial | 48.41 | 48.42 | 28.0 |
| Agriculture | 48.42 | 48.46 | 219.0 |
| Upland Forest / Woodland | 48.46 | 48.47 | 72.1 |
| Wetland | 48.47 | 48.48 | 24.4 |
| Upland Forest / Woodland | 48.48 | 48.52 | 205.6 |
| Upland Open Land | 48.52 | 48.52 | 32.3 |
| Agriculture | 48.52 | 48.55 | 168.4 |
| Upland Open Land | 48.55 | 48.56 | 10.5 |
| Upland Forest / Woodland | 48.56 | 48.61 | 288.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Wetland | 48.61 | 48.62 | 39.5 |
| Upland Forest / Woodland | 48.62 | 48.66 | 204.8 |
| Wetland | 48.66 | 48.66 | 0.9 |
| Upland Forest / Woodland | 48.66 | 48.70 | 231.0 |
| Upland Open Land | 48.70 | 48.72 | 85.9 |
| Commercial/Industrial | 48.72 | 49.01 | 1,548.0 |
| Upland Open Land | 49.01 | 49.06 | 272.9 |
| Upland Forest / Woodland | 49.06 | 49.10 | 202.7 |
| Upland Open Land | 49.10 | 49.10 | 20.2 |
| Commercial/Industrial | 49.10 | 49.11 | 39.2 |
| Upland Open Land | 49.11 | 49.24 | 686.0 |
| Upland Forest / Woodland | 49.24 | 49.39 | 771.0 |
| Upland Open Land | 49.39 | 49.52 | 703.1 |
| Commercial/Industrial | 49.52 | 49.53 | 33.6 |
| Upland Forest / Woodland | 49.53 | 49.65 | 648.9 |
| Upland Open Land | 49.65 | 49.71 RR | 308.8 |
| Upland Forest / Woodland | 49.71 RR | 49.79 RR | 453.0 |
| Upland Open Land | 49.79 RR | 49.80 RR | 58.3 |
| Upland Forest / Woodland | 49.80 RR | 49.90 RR | 524.3 |
| Wetland | 49.90 RR | 49.91 RR | 38.7 |
| Upland Forest / Woodland | 49.91 RR | 50.01 RR | 516.8 |
| Upland Open Land | 50.01 RR | 50.01 RR | 1.0 |
| Upland Forest / Woodland | 50.01 RR | 50.02 RR | 74.5 |
| Upland Open Land | 50.02 RR | 50.05 RR | 126.7 |
| Upland Forest / Woodland | 50.05 RR | 50.33 RR | 1,469.8 |
| Upland Open Land | 50.33 RR | 50.33 RR | 26.3 |
| Upland Forest / Woodland | 50.33 RR | 50.52 RR | 1,018.0 |
| Upland Open Land | 50.52 RR | 50.60 RR | 407.1 |
| Upland Forest / Woodland | 50.60 RR | 50.74 RR | 750.6 |
| Upland Open Land | 50.74 RR | 50.75 RR | 22.5 |
| Upland Forest / Woodland | 50.75 RR | 50.77 RR | 115.9 |
| Open Water | 50.77 RR | 50.78 RR | 43.5 |
| Upland Forest / Woodland | 50.78 RR | 50.8 RR | 113.4 |
| Open Water | 50.8 RR | 50.81 RR | 35.6 |
| Upland Forest / Woodland | 50.81 RR | 50.81 RR | 3.2 |
| Open Water | 50.81 RR | 50.82 RR | 49.7 |
| Upland Forest / Woodland | 50.82 RR | 50.83 RR | 73.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 50.83 RR | 50.97 RR | 719.1 |
| Upland Forest / Woodland | 50.97 RR | 51.16 RR | 1,021.2 |
| Agriculture | 51.16 RR | 51.18 RR | 92.2 |
| Upland Forest / Woodland | 51.18 RR | 51.23 RR | 265.1 |
| Agriculture | 51.23 RR | 51.24 RR | 96.5 |
| Upland Open Land | 51.24 RR | 51.26 RR | 92.2 |
| Agriculture | 51.26 RR | 51.34 RR | 418.5 |
| Upland Open Land | 51.34 RR | 51.35 RR | 60.8 |
| Wetland | 51.35 RR | 51.36 RR | 18.9 |
| Upland Open Land | 51.36 RR | 51.36 RR | 24.6 |
| Wetland | 51.36 RR | 51.39 RR | 134.9 |
| Upland Forest / Woodland | 51.39 RR | 51.46 RR | 387.9 |
| Agriculture | 51.46 RR | 51.63 RR | 884.3 |
| Upland Open Land | 51.63 RR | 51.63 RR | 20.3 |
| Commercial/Industrial | 51.63 RR | 51.64 RR | 20.8 |
| Upland Open Land | 51.64 RR | 51.64 RR | 17.4 |
| Agriculture | 51.64 RR | 51.83 | 1,145.7 |
| Upland Open Land | 51.83 | 51.85 | 114.0 |
| Agriculture | 51.85 | 51.96 | 584.4 |
| Upland Open Land | 51.96 | 51.98 | 88.8 |
| Commercial/Industrial | 51.98 | 51.98 | 17.6 |
| Upland Open Land | 51.98 | 52.04 RR | 330.2 |
| Upland Forest / Woodland | 52.04 RR | 52.19 RR | 788.8 |
| Upland Open Land | 52.19 RR | 52.2 RR | 24.9 |
| Upland Forest / Woodland | 52.2 RR | 52.17 | 90.9 |
| Upland Open Land | 52.17 | 52.19 | 116.2 |
| Upland Forest / Woodland | 52.19 | 52.24 | 261.2 |
| Upland Open Land | 52.24 | 52.26 | 103.1 |
| Upland Forest / Woodland | 52.26 | 52.27 | 66.4 |
| Upland Open Land | 52.27 | 52.30 | 153.9 |
| Upland Forest / Woodland | 52.30 | 52.30 | 20.4 |
| Upland Open Land | 52.30 | 52.34 RR | 211.5 |
| Upland Forest / Woodland | 52.34 RR | 52.38 RR | 191.0 |
| Open Water | 52.38 RR | 52.38 RR | 9.1 |
| Upland Forest / Woodland | 52.38 RR | 52.42 RR | 190.9 |
| Agriculture | 52.42 RR | 52.47 RR | 255.6 |
| Upland Forest / Woodland | 52.47 RR | 52.53 | 427.6 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 52.53 | 52.54 | 27.9 |
| Upland Forest / Woodland | 52.54 | 52.60 | 340.8 |
| Upland Open Land | 52.60 | 52.62 | 70.4 |
| Commercial/Industrial | 52.62 | 52.62 | 11.9 |
| Upland Open Land | 52.62 | 52.62 | 29.9 |
| Upland Forest / Woodland | 52.62 | 52.73 | 554.2 |
| Agriculture | 52.73 | 52.73 | 28.2 |
| Upland Forest / Woodland | 52.73 | 53.05 | 1,646.3 |
| Upland Open Land | 53.05 | 53.05 | 8.5 |
| Commercial/Industrial | 53.05 | 53.05 | 29.5 |
| Upland Forest / Woodland | 53.05 | 53.12 | 359.9 |
| Agriculture | 53.12 | 53.17 | 257.7 |
| Upland Forest / Woodland | 53.17 | 53.25 | 397.1 |
| Agriculture | 53.25 | 53.28 | 177.5 |
| Upland Forest / Woodland | 53.28 | 53.32 | 216.4 |
| Upland Open Land | 53.32 | 53.33 | 48.7 |
| Commercial/Industrial | 53.33 | 53.34 | 34.4 |
| Upland Open Land | 53.34 | 53.34 | 21.6 |
| Silviculture | 53.34 | 53.35 | 43.7 |
| Wetland | 53.35 | 53.35 | 26.1 |
| Silviculture | 53.35 | 53.47 | 635.3 |
| Residential | 53.47 | 53.48 | 14.2 |
| Silviculture | 53.48 | 53.62 | 762.7 |
| Residential | 53.62 | 53.62 | 11.8 |
| Silviculture | 53.62 | 53.64 | 112.7 |
| Upland Open Land | 53.64 | 53.65 | 4.4 |
| Wetland | 53.65 | 53.65 | 9.0 |
| Upland Open Land | 53.65 | 53.66 | 53.3 |
| Upland Forest / Woodland | 53.66 | 53.76 | 549.0 |
| Upland Open Land | 53.76 | 53.77 | 25.6 |
| Upland Forest / Woodland | 53.77 | 53.81 | 206.6 |
| Agriculture | 53.81 | 53.83 | 152.9 |
| Upland Open Land | 53.83 | 53.88 | 262.0 |
| Upland Forest / Woodland | 53.88 | 53.90 | 80.5 |
| Upland Open Land | 53.90 | 53.96 | 340.6 |
| Upland Forest / Woodland | 53.96 | 53.99 | 161.4 |
| Upland Open Land | 53.99 | 54.00 | 43.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Agriculture | 54.00 | 54.09 | 486.6 |
| Upland Open Land | 54.09 | 54.10 | 21.6 |
| Commercial/Industrial | 54.10 | 54.10 | 20.3 |
| Upland Open Land | 54.10 | 54.11 | 17.8 |
| Agriculture | 54.11 | 54.21 | 528.2 |
| Upland Forest / Woodland | 54.21 | 54.23 | 137.5 |
| Agriculture | 54.23 | 54.30 | 350.7 |
| Upland Forest / Woodland | 54.30 | 54.31 | 66.8 |
| Wetland | 54.31 | 54.33 | 102.9 |
| Upland Forest / Woodland | 54.33 | 54.35 | 116.8 |
| Agriculture | 54.35 | 54.43 | 392.0 |
| Upland Forest / Woodland | 54.43 | 54.60 | 925.6 |
| Upland Open Land | 54.60 | 54.61 | 20.2 |
| Upland Forest / Woodland | 54.61 | 54.64 | 153.8 |
| Agriculture | 54.64 | 54.80 | 848.9 |
| Upland Open Land | 54.80 | 54.88 | 427.8 |
| Upland Forest / Woodland | 54.88 | 54.89 | 91.5 |
| Upland Open Land | 54.89 | 54.92 | 125.5 |
| Upland Forest / Woodland | 54.92 | 55.01 | 500.9 |
| Agriculture | 55.01 | 55.06 | 241.9 |
| Upland Open Land | 55.06 | 55.06 | 25.4 |
| Commercial/Industrial | 55.06 | 55.07 | 25.7 |
| Upland Open Land | 55.07 | 55.07 | 15.5 |
| Agriculture | 55.07 | 55.27 RR | 1,029.5 |
| Upland Open Land | 55.27 RR | 55.27 RR | 41.6 |
| Upland Forest / Woodland | 55.27 RR | 55.64 RR | 1,924.5 |
| Agriculture | 55.64 RR | 55.50 | 441.1 |
| Upland Forest / Woodland | 55.50 | 55.53 | 171.1 |
| Wetland | 55.53 | 55.54 | 39.1 |
| Upland Open Land | 55.54 | 55.59 | 271.3 |
| Upland Forest / Woodland | 55.59 | 55.66 | 355.6 |
| Agriculture | 55.66 | 55.66 | 13.7 |
| Upland Forest / Woodland | 55.66 | 55.67 | 54.3 |
| Agriculture | 55.67 | 55.68 | 21.0 |
| Upland Forest / Woodland | 55.68 | 55.73 | 286.7 |
| Upland Open Land | 55.73 | 55.74 | 53.3 |
| Commercial/Industrial | 55.74 | 55.75 | 48.2 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Agriculture | 55.75 | 55.78 | 148.8 |
| Upland Forest / Woodland | 55.78 | 55.91 | 696.3 |
| Agriculture | 55.91 | 56.28 | 1,953.7 |
| Upland Open Land | 56.28 | 56.30 | 96.2 |
| Upland Forest / Woodland | 56.30 | 56.37 | 375.6 |
| Upland Open Land | 56.37 | 56.38 | 28.0 |
| Commercial/Industrial | 56.38 | 56.38 | 31.4 |
| Upland Open Land | 56.38 | 56.39 | 24.4 |
| Upland Forest / Woodland | 56.39 | 56.42 RR | 174.3 |
| Wetland | 56.42 RR | 56.43 RR | 78.3 |
| Upland Forest / Woodland | 56.43 RR | 56.44 RR | 3.2 |
| Wetland | 56.44 RR | 56.44 RR | 11.9 |
| Upland Forest / Woodland | 56.44 RR | 56.47 RR | 158.9 |
| Commercial/Industrial | 56.47 RR | 56.47 RR | 13.6 |
| Upland Forest / Woodland | 56.47 RR | 56.49 | 154.2 |
| Open Water | 56.49 | 56.50 | 31.4 |
| Upland Forest / Woodland | 56.50 | 56.51 | 51.3 |
| Wetland | 56.51 | 56.52 RR | 62.9 |
| Upland Forest / Woodland | 56.52 RR | 56.57 RR | 267.8 |
| Wetland | 56.57 RR | 56.59 RR | 76.8 |
| Upland Forest / Woodland | 56.59 RR | 56.64 RR | 263.0 |
| Wetland | 56.64 RR | 56.66 RR | 127.8 |
| Upland Forest / Woodland | 56.66 RR | 56.70 RR | 205.4 |
| Open Water | 56.70 RR | 56.71 RR | 67.9 |
| Upland Forest / Woodland | 56.71 RR | 56.73 RR | 116.3 |
| Upland Open Land | 56.73 RR | 56.74 RR | 13.3 |
| Agriculture | 56.74 RR | 56.78 | 518.3 |
| Upland Open Land | 56.78 | 56.81 | 166.5 |
| Upland Forest / Woodland | 56.81 | 56.85 | 199.5 |
| Wetland | 56.85 | 56.85 | 17.0 |
| Upland Forest / Woodland | 56.85 | 56.93 | 418.1 |
| Agriculture | 56.93 | 56.97 | 185.0 |
| Upland Forest / Woodland | 56.97 | 57.03 | 338.2 |
| Upland Open Land | 57.03 | 57.03 | 10.7 |
| Upland Forest / Woodland | 57.03 | 57.06 | 131.4 |
| Wetland | 57.06 | 57.07 | 56.0 |
| Upland Forest / Woodland | 57.07 | 57.16 | 486.8 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Wetland | 57.16 | 57.19 | 145.8 |
| Upland Forest / Woodland | 57.19 | 57.26 | 385.1 |
| Upland Open Land | 57.26 | 57.27 | 22.8 |
| Residential | 57.27 | 57.28 | 58.0 |
| Upland Open Land | 57.28 | 57.28 | 38.2 |
| Residential | 57.28 | 57.29 | 41.7 |
| Upland Open Land | 57.29 | 57.34 | 231.7 |
| Upland Forest / Woodland | 57.34 | 57.34 | 47.7 |
| Upland Open Land | 57.34 | 57.46 | 631.1 |
| Commercial/Industrial | 57.46 | 57.47 | 50.2 |
| Upland Open Land | 57.47 | 57.52 | 236.0 |
| Upland Forest / Woodland | 57.52 | 57.54 | 134.9 |
| Wetland | 57.54 | 57.56 | 84.8 |
| Upland Forest / Woodland | 57.56 | 57.56 | 2.5 |
| Wetland | 57.56 | 57.57 | 66.8 |
| Upland Forest / Woodland | 57.57 | 57.58 | 26.1 |
| Agriculture | 57.58 | 57.62 | 244.4 |
| Upland Forest / Woodland | 57.62 | 57.76 | 707.4 |
| Upland Open Land | 57.76 | 57.78 | 135.6 |
| Residential | 57.78 | 57.81 | 163.3 |
| Commercial/Industrial | 57.81 | 57.82 | 43.6 |
| Upland Open Land | 57.82 | 57.85 | 133.6 |
| Wetland | 57.85 | 57.85 | 13.1 |
| Upland Open Land | 57.85 | 57.85 | 2.0 |
| Commercial/Industrial | 57.85 | 57.86 | 33.7 |
| Upland Open Land | 57.86 | 57.86 | 34.5 |
| Wetland | 57.86 | 57.87 | 20.2 |
| Upland Forest / Woodland | 57.87 | 57.89 | 93.4 |
| Upland Open Land | 57.89 | 58.01 | 675.9 |
| Wetland | 58.01 | 58.02 | 52.2 |
| Upland Open Land | 58.02 | 58.34 | 1,677.0 |
| Upland Forest / Woodland | 58.34 | 58.40 | 320.1 |
| Upland Open Land | 58.40 | 58.44 | 180.3 |
| Upland Forest / Woodland | 58.44 | 58.46 | 145.2 |
| Agriculture | 58.46 | 58.58 RR | 598.7 |
| Upland Forest / Woodland | 58.58 RR | 58.6 RR | 117.1 |
| Agriculture | 58.6 RR | 58.62 RR | 130.7 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 58.62 RR | 58.65 RR | 164.8 |
| Open Water | 58.65 RR | 58.66 RR | 30.6 |
| Upland Forest / Woodland | 58.66 RR | 58.77 | 825.5 |
| Upland Open Land | 58.77 | 58.82 | 245.0 |
| Upland Forest / Woodland | 58.82 | 59.21 RR | 2,089.4 |
| Upland Open Land | 59.21 RR | 59.34 RR | 659.2 |
| Commercial/Industrial | 59.34 RR | 59.34 RR | 28.2 |
| Residential | 59.34 RR | 59.39 RR | 233.5 |
| Upland Open Land | 59.39 RR | 59.63 | 1,177.3 |
| Upland Forest / Woodland | 59.63 | 59.65 | 112.8 |
| Upland Open Land | 59.65 | 59.67 | 86.1 |
| Upland Forest / Woodland | 59.67 | 59.72 | 282.7 |
| Upland Open Land | 59.72 | 59.73 | 39.0 |
| Upland Forest / Woodland | 59.73 | 59.76 | 135.9 |
| Upland Open Land | 59.76 | 59.80 | 227.8 |
| Upland Forest / Woodland | 59.80 | 59.84 | 200.4 |
| Upland Open Land | 59.84 | 59.86 | 141.1 |
| Upland Forest / Woodland | 59.86 | 59.89 | 130.2 |
| Upland Open Land | 59.89 | 59.99 | 525.9 |
| Commercial/Industrial | 59.99 | 59.99 | 19.7 |
| Upland Open Land | 59.99 | 60.25 | 1,376.7 |
| Commercial/Industrial | 60.25 | 60.26 | 45.7 |
| Upland Open Land | 60.26 | 60.46 | 1,041.5 |
| Upland Forest / Woodland | 60.46 | 60.73 RR | 1,439.1 |
| Open Water | 60.73 RR | 60.73 RR | 15.7 |
| Wetland | 60.73 RR | 60.76 RR | 116.1 |
| Upland Forest / Woodland | 60.76 RR | 60.79 RR | 189.6 |
| Upland Open Land | 60.79 RR | 60.82 RR | 165.1 |
| Upland Forest / Woodland | 60.82 RR | 60.83 RR | 41.7 |
| Wetland | 60.83 RR | 60.84 RR | 33.0 |
| Upland Forest / Woodland | 60.84 RR | 60.86 RR | 91.8 |
| Upland Open Land | 60.86 RR | 60.93 | 558.5 |
| Agriculture | 60.93 | 61.15 | 1,167.3 |
| Upland Open Land | 61.15 | 61.15 | 8.5 |
| Upland Forest / Woodland | 61.15 | 61.36 | 1,110.1 |
| Upland Open Land | 61.36 | 61.37 | 26.3 |
| Commercial/Industrial | 61.37 | 61.37 | 21.1 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 61.37 | 61.38 | 40.0 |
| Upland Forest / Woodland | 61.38 | 61.40 | 105.5 |
| Upland Open Land | 61.40 | 61.43 | 169.8 |
| Agriculture | 61.43 | 61.59 | 827.4 |
| Upland Open Land | 61.59 | 61.61 | 95.4 |
| Agriculture | 61.61 | 61.64 | 173.3 |
| Upland Open Land | 61.64 | 61.69 | 234.8 |
| Upland Forest / Woodland | 61.69 | 61.83 | 770.6 |
| Upland Open Land | 61.83 | 61.91 | 423.0 |
| Agriculture | 61.91 | 62.18 RR | 1,414.6 |
| Upland Open Land | 62.18 RR | 62.34 RR | 836.3 |
| Upland Forest / Woodland | 62.34 RR | 62.35 RR | 53.4 |
| Upland Open Land | 62.35 RR | 62.48 RR | 705.7 |
| Upland Forest / Woodland | 62.48 RR | 62.55 RR | 370.6 |
| Open Water | 62.55 RR | 62.55 RR | 13.0 |
| Upland Forest / Woodland | 62.55 RR | 62.52 | 279.1 |
| Wetland | 62.52 | 62.52 | 8.4 |
| Upland Forest / Woodland | 62.52 | 62.54 | 86.4 |
| Upland Open Land | 62.54 | 62.66 | 638.8 |
| Wetland | 62.66 | 62.67 | 63.7 |
| Upland Open Land | 62.67 | 62.82 | 748.0 |
| Commercial/Industrial | 62.82 | 62.82 | 23.8 |
| Upland Open Land | 62.82 | 62.89 | 371.1 |
| Upland Forest / Woodland | 62.89 | 62.99 RR | 512.9 |
| Wetland | 62.99 RR | 62.99 RR | 23.9 |
| Upland Forest / Woodland | 62.99 RR | 63.03 RR | 182.3 |
| Upland Open Land | 63.03 RR | 63.04 RR | 48.2 |
| Upland Forest / Woodland | 63.04 RR | 63.05 RR | 71.0 |
| Upland Open Land | 63.05 RR | 63.08 RR | 141.6 |
| Commercial/Industrial | 63.08 RR | 63.08 RR | 31.6 |
| Upland Open Land | 63.08 RR | 63.09 RR | 39.2 |
| Upland Forest / Woodland | 63.09 RR | 63.15 RR | 309.3 |
| Upland Open Land | 63.15 RR | 63.17 RR | 134.5 |
| Upland Forest / Woodland | 63.17 RR | 63.42 RR | 1,287.1 |
| Open Water | 63.42 RR | 63.42 RR | 17.6 |
| Upland Forest / Woodland | 63.42 RR | 63.53 | 1,336.1 |
| Upland Open Land | 63.53 | 63.53 | 28.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|---|----------------|---------------|---------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 63.53 | 63.59 | 304.4 |
| Open Water | 63.59 | 63.65 | 296.2 |
| Upland Forest / Woodland | 63.65 | 63.84 | 1,041.3 |
| Wetland | 63.84 | 63.85 | 63.0 |
| Upland Forest / Woodland | 63.85 | 63.93 RR | 386.2 |
| Silviculture | 63.93 RR | 64.03 RR | 540.2 |
| Upland Forest / Woodland | 64.03 RR | 64.05 RR | 102.6 |
| Open Water | 64.05 RR | 64.06 RR | 33.7 |
| Wetland | 64.06 RR | 64.06 RR | 49.3 |
| Upland Forest / Woodland | 64.06 RR | 64.08 RR | 68.1 |
| Upland Open Land | 64.08 RR | 64.09 RR | 50.5 |
| Upland Forest / Woodland | 64.09 RR | 64.11 RR | 104.6 |
| Upland Open Land | 64.11 RR | 64.34 | 1,324.5 |
| Commercial/Industrial | 64.34 | 64.34 | 11.5 |
| Upland Open Land | 64.34 | 64.41 | 368.7 |
| Upland Forest / Woodland | 64.41 | 64.47 | 328.5 |
| Open Water | 64.47 | 64.48 | 13.2 |
| Upland Forest / Woodland | 64.48 | 64.63 | 790.2 |
| Residential | 64.63 | 64.64 | 73.5 |
| Upland Forest / Woodland | 64.64 | 64.78 | 755.9 |
| Upland Open Land | 64.78 | 64.79 | 14.5 |
| Commercial/Industrial | 64.79 | 64.79 | 22.8 |
| Upland Open Land | 64.79 | 64.99 RR | 1,029.3 |
| Wetland | 64.99 RR | 65.00 RR | 69.3 |
| Upland Open Land | 65.00 RR | 65.00 RR | 0.6 |
| Upland Forest / Woodland | 65.00 RR | 65.01 RR | 42.2 |
| Upland Open Land | 65.01 RR | 65.09 RR | 456.5 |
| Upland Forest / Woodland | 65.09 RR | 65.13 RR | 182.3 |
| Upland Open Land | 65.13 RR | 65.17 RR | 210.2 |
| Upland Forest / Woodland | 65.17 RR | 65.17 RR | 30.5 |
| Wetland | 65.17 RR | 65.17 RR | 5.5 |
| Upland Forest / Woodland | 65.17 RR | 65.19 RR | 103.8 |
| Upland Open Land | 65.19 RR | 65.34 RR | 748.5 |
| Commercial/Industrial | 65.34 RR | 65.34 RR | 21.2 |
| Upland Open Land | 65.34 RR | 65.35 RR | 43.4 |
| Agriculture | 65.35 RR | 65.39 RR | 209.7 |
| Upland Open Land | 65.39 RR | 65.4 RR | 42.5 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Agriculture | 65.4 RR | 65.56 RR | 854.5 |
| Upland Forest / Woodland | 65.56 RR | 65.57 | 522.8 |
| Upland Open Land | 65.57 | 65.57 | 37.6 |
| Upland Forest / Woodland | 65.57 | 65.76 | 982.1 |
| Upland Open Land | 65.76 | 65.78 | 98.9 |
| Agriculture | 65.78 | 65.82 | 246.6 |
| Upland Open Land | 65.82 | 65.83 | 19.3 |
| Upland Forest / Woodland | 65.83 | 65.89 | 350.6 |
| Upland Open Land | 65.89 | 65.96 RR | 349.5 |
| Upland Forest / Woodland | 65.96 RR | 65.97 RR | 70.6 |
| Upland Open Land | 65.97 RR | 66.05 RR | 410.9 |
| Agriculture | 66.05 RR | 66.12 RR | 356.1 |
| Commercial/Industrial | 66.12 RR | 66.12 RR | 19.6 |
| Upland Open Land | 66.12 RR | 66.13 RR | 16.3 |
| Agriculture | 66.13 RR | 66.25 RR | 636.9 |
| Upland Forest / Woodland | 66.25 RR | 66.38 RR | 688.5 |
| Commercial/Industrial | 66.38 RR | 66.38 RR | 22.2 |
| Upland Open Land | 66.38 RR | 66.43 RR | 266.4 |
| Residential | 66.43 RR | 66.44 RR | 66.5 |
| Upland Open Land | 66.44 RR | 66.47 RR | 147.3 |
| Upland Forest / Woodland | 66.47 RR | 66.55 RR | 430.9 |
| Upland Open Land | 66.55 RR | 66.63 RR | 410.7 |
| Wetland | 66.63 RR | 66.64 RR | 34.4 |
| Upland Open Land | 66.64 RR | 66.7 RR | 332.8 |
| Upland Forest / Woodland | 66.7 RR | 66.79 RR | 480.1 |
| Upland Open Land | 66.79 RR | 66.87 RR | 438.1 |
| Upland Forest / Woodland | 66.87 RR | 66.96 RR | 428.7 |
| Upland Open Land | 66.96 RR | 67.03 RR | 376.0 |
| Commercial/Industrial | 67.03 RR | 67.07 RR | 212.9 |
| Residential | 67.07 RR | 67.07 RR | 37.9 |
| Upland Open Land | 67.07 RR | 67.16 RR | 470.2 |
| Commercial/Industrial | 67.16 RR | 67.17 RR | 16.3 |
| Upland Open Land | 67.17 RR | 67.24 RR | 381.0 |
| Upland Forest / Woodland | 67.24 RR | 67.26 RR | 101.4 |
| Upland Open Land | 67.26 RR | 67.27 RR | 59.8 |
| Upland Forest / Woodland | 67.27 RR | 67.41 RR | 720.2 |
| Upland Open Land | 67.41 RR | 67.59 RR | 966.8 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 67.59 RR | 67.60 | 864.7 |
| Open Water | 67.60 | 67.60 | 24.8 |
| Upland Open Land | 67.60 | 67.73 | 675.4 |
| Upland Forest / Woodland | 67.73 | 67.95 | 1,149.4 |
| Upland Open Land | 67.95 | 68.07 | 618.7 |
| Upland Forest / Woodland | 68.07 | 68.10 | 200.6 |
| Open Water | 68.10 | 68.11 | 8.4 |
| Upland Forest / Woodland | 68.11 | 68.22 | 608.1 |
| Residential | 68.22 | 68.22 | 16.7 |
| Upland Open Land | 68.22 | 68.25 | 114.0 |
| Upland Forest / Woodland | 68.25 | 68.36 | 602.7 |
| Wetland | 68.36 | 68.36 | 15.7 |
| Upland Forest / Woodland | 68.36 | 68.41 | 247.4 |
| Open Water | 68.41 | 68.41 | 2.8 |
| Upland Forest / Woodland | 68.41 | 68.49 | 395.9 |
| Upland Open Land | 68.49 | 68.50 | 100.1 |
| Upland Forest / Woodland | 68.50 | 68.58 | 400.1 |
| Upland Open Land | 68.58 | 68.58 | 0.6 |
| Upland Forest / Woodland | 68.58 | 68.58 | 24.1 |
| Upland Open Land | 68.58 | 68.59 | 26.2 |
| Upland Forest / Woodland | 68.59 | 68.60 | 76.2 |
| Upland Open Land | 68.60 | 68.62 | 79.6 |
| Upland Forest / Woodland | 68.62 | 68.62 | 9.4 |
| Upland Open Land | 68.62 | 68.63 | 21.1 |
| Upland Forest / Woodland | 68.63 | 68.65 | 124.0 |
| Upland Open Land | 68.65 | 68.65 | 10.9 |
| Commercial/Industrial | 68.65 | 68.66 | 28.4 |
| Upland Open Land | 68.66 | 68.66 | 34.4 |
| Upland Forest / Woodland | 68.66 | 68.79 | 688.5 |
| Open Water | 68.79 | 68.80 | 12.6 |
| Upland Forest / Woodland | 68.80 | 68.82 | 125.5 |
| Upland Open Land | 68.82 | 68.84 | 107.3 |
| Upland Forest / Woodland | 68.84 | 68.95 | 572.3 |
| Upland Open Land | 68.95 | 69.02 | 402.5 |
| Upland Forest / Woodland | 69.02 | 69.03 | 22.8 |
| Upland Open Land | 69.03 | 69.03 | 23.9 |
| Upland Forest / Woodland | 69.03 | 69.03 | 11.4 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Commercial/Industrial | 69.03 | 69.05 | 100.4 |
| Upland Forest / Woodland | 69.05 | 69.09 | 203.2 |
| Upland Open Land | 69.09 | 69.24 | 762.4 |
| Upland Forest / Woodland | 69.24 | 69.42 | 978.8 |
| Residential | 69.42 | 69.43 | 23.7 |
| Upland Open Land | 69.43 | 69.43 | 1.5 |
| Upland Forest / Woodland | 69.43 | 69.46 | 200.3 |
| Upland Open Land | 69.46 | 69.47 | 13.9 |
| Upland Forest / Woodland | 69.47 | 69.48 | 61.7 |
| Open Water | 69.48 | 69.48 | 8.0 |
| Upland Forest / Woodland | 69.48 | 69.57 RR | 474.6 |
| Upland Open Land | 69.57 RR | 69.59 RR | 107.8 |
| Upland Forest / Woodland | 69.59 RR | 69.6 RR | 34.8 |
| Upland Open Land | 69.6 RR | 69.61 RR | 62.1 |
| Residential | 69.61 RR | 69.63 RR | 95.5 |
| Commercial/Industrial | 69.63 RR | 69.64 RR | 51.4 |
| Residential | 69.64 RR | 69.65 RR | 48.3 |
| Upland Open Land | 69.65 RR | 69.69 RR | 220.2 |
| Upland Forest / Woodland | 69.69 RR | 69.69 RR | 34.5 |
| Upland Open Land | 69.69 RR | 69.72 RR | 157.6 |
| Commercial/Industrial | 69.72 RR | 69.74 RR | 76.0 |
| Upland Open Land | 69.74 RR | 69.76 RR | 99.1 |
| Commercial/Industrial | 69.76 RR | 69.77 RR | 51.0 |
| Upland Open Land | 69.77 RR | 69.78 RR | 87.5 |
| Commercial/Industrial | 69.78 RR | 69.79 RR | 56.9 |
| Upland Open Land | 69.79 RR | 69.82 RR | 122.2 |
| Upland Forest / Woodland | 69.82 RR | 69.86 RR | 236.6 |
| Upland Open Land | 69.86 RR | 69.88 RR | 86.1 |
| Commercial/Industrial | 69.88 RR | 69.88 RR | 19.4 |
| Upland Open Land | 69.88 RR | 69.89 RR | 32.6 |
| Upland Forest / Woodland | 69.89 RR | 69.9 RR | 32.9 |
| Upland Open Land | 69.9 RR | 69.94 RR | 219.8 |
| Upland Forest / Woodland | 69.94 RR | 69.96 RR | 144.8 |
| Open Water | 69.96 RR | 69.97 RR | 5.7 |
| Upland Forest / Woodland | 69.97 RR | 70.27 RR | 2,039.3 |
| Open Water | 70.27 RR | 70.27 RR | 11.4 |
| Upland Forest / Woodland | 70.27 RR | 70.29 RR | 86.0 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Open Land | 70.29 RR | 70.29 RR | 25.3 |
| Upland Forest / Woodland | 70.29 RR | 70.58 | 1,545.5 |
| Upland Open Land | 70.58 | 70.59 | 58.5 |
| Upland Forest / Woodland | 70.59 | 70.72 | 700.8 |
| Open Water | 70.72 | 70.73 | 24.2 |
| Upland Forest / Woodland | 70.73 | 70.76 | 170.3 |
| Upland Open Land | 70.76 | 70.76 | 9.7 |
| Upland Forest / Woodland | 70.76 | 70.81 | 237.3 |
| Upland Open Land | 70.81 | 70.83 | 136.4 |
| Upland Forest / Woodland | 70.83 | 70.92 | 467.7 |
| Upland Open Land | 70.92 | 70.93 | 38.3 |
| Upland Forest / Woodland | 70.93 | 71.03 | 559.2 |
| Upland Open Land | 71.03 | 71.04 | 59.7 |
| Upland Forest / Woodland | 71.04 | 71.07 | 117.7 |
| Upland Open Land | 71.07 | 71.07 | 32.0 |
| Upland Forest / Woodland | 71.07 | 71.09 | 108.5 |
| Upland Open Land | 71.09 | 71.10 | 24.0 |
| Upland Forest / Woodland | 71.10 | 71.31 | 1,124.3 |
| Upland Open Land | 71.31 | 71.31 | 17.0 |
| Commercial/Industrial | 71.31 | 71.35 | 171.8 |
| Upland Open Land | 71.35 | 71.35 | 24.5 |
| Upland Forest / Woodland | 71.35 | 71.35 | 14.0 |
| Upland Open Land | 71.35 | 71.48 | 640.9 |
| Upland Forest / Woodland | 71.48 | 71.49 | 56.1 |
| Open Water | 71.49 | 71.49 | 25.9 |
| Upland Forest / Woodland | 71.49 | 71.50 | 47.2 |
| Upland Open Land | 71.50 | 71.54 | 228.3 |
| Upland Forest / Woodland | 71.54 | 71.56 | 100.0 |
| Upland Open Land | 71.56 | 71.57 | 60.9 |
| Upland Forest / Woodland | 71.57 | 71.58 | 53.8 |
| Upland Open Land | 71.58 | 71.62 | 173.7 |
| Upland Forest / Woodland | 71.62 | 71.63 | 96.8 |
| Upland Open Land | 71.63 | 71.74 | 531.8 |
| Upland Forest / Woodland | 71.74 | 71.74 | 49.6 |
| Wetland | 71.74 | 71.75 | 43.9 |
| Upland Forest / Woodland | 71.75 | 71.93 | 930.8 |
| Upland Open Land | 71.93 | 71.95 RR | 95.9 |

| REVISED [Oct 2019] - Table 8-A | | | |
|--|-----------------------|----------------------|----------------------|
| Land Use Crossed by Milepost for the Southgate Project Pipeline | | | |
| Land Use | Entry Milepost | Exit Milepost | Length (feet) |
| Upland Forest / Woodland | 71.95 RR | 71.96 RR | 74.5 |
| Upland Open Land | 71.96 RR | 72.02 RR | 312.7 |
| Upland Forest / Woodland | 72.02 RR | 72.03 | 119.7 |
| Upland Open Land | 72.03 | 72.05 | 85.3 |
| Upland Forest / Woodland | 72.05 | 72.07 | 116.3 |
| Upland Open Land | 72.07 | 72.07 | 12.4 |
| Upland Forest / Woodland | 72.07 | 72.08 | 45.9 |
| Upland Open Land | 72.08 | 72.11 | 150.5 |
| Upland Forest / Woodland | 72.11 | 72.22 | 605.6 |
| Upland Open Land | 72.22 | 72.24 | 76.5 |
| Upland Forest / Woodland | 72.24 | 72.40 | 845.5 |
| Upland Open Land | 72.40 | 72.40 | 22.5 |
| Upland Forest / Woodland | 72.40 | 72.41 | 56.1 |
| Upland Open Land | 72.41 | 72.44 | 161.8 |
| Upland Forest / Woodland | 72.44 | 72.62 | 950.1 |
| Upland Open Land | 72.62 | 72.63 | 40.5 |
| Upland Forest / Woodland | 72.63 | 72.76 RR | 683.5 |
| Residential | 72.76 RR | 72.79 RR | 172.4 |
| Upland Forest / Woodland | 72.79 RR | 72.87 RR | 390.1 |
| Residential | 72.87 RR | 72.9 RR | 176.5 |
| Commercial/Industrial | 72.9 RR | 72.91 RR | 80.5 |
| Upland Open Land | 72.91 RR | 72.92 RR | 36.9 |
| Wetland | 72.92 RR | 72.93 RR | 36.4 |
| Upland Open Land | 72.93 RR | 72.93 RR | 34.1 |
| Wetland | 72.93 RR | 72.98 RR | 221.2 |
| Upland Open Land | 72.98 RR | 72.98 RR | 41.2 |
| Wetland | 72.98 RR | 72.99 RR | 45.0 |
| Upland Open Land | 72.99 RR | 73.17 RR | 1,051.3 |

Note: Mileposts with an "RR" indicate locations where a re-route was incorporated into the pipeline alignment.

| REVISED [Oct 2019] - Table 8-B | | | | | | |
|---|----------|--|--------------|--------------|-------------------|-----------------|
| Roadways Crossed by the Southgate Project | | | | | | |
| Facility, State, County | Milepost | Road Name | Surface Type | Jurisdiction | Public or Private | Crossing Method |
| H-605 Pipeline | | | | | | |
| Virginia | | | | | | |
| Pittsylvania | N/A | N/A | N/A | N/A | N/A | N/A |
| H-650 Pipeline | | | | | | |
| Virginia | | | | | | |
| Pittsylvania | 0.7 | County Road 703 / Fairview N | Asphalt | County | Public | Bore |
| Pittsylvania | 0.9 | State Route 57 / Halifax Road | Asphalt | State | Public | Bore |
| Pittsylvania | 2.9 | County Road 694 / Davis Road | Asphalt | County | Public | Bore |
| Pittsylvania | 3.0 | County Road 703 / Fairview Road | Asphalt | County | Public | Bore |
| Pittsylvania | 4.2 | County Road 1437 / Woodlawn Academy Road | Asphalt | County | Public | Bore |
| Pittsylvania | 4.3 | County Road 1437 / Woodlawn Academy Road | Asphalt | County | Public | Bore |
| Pittsylvania | 4.3 | U.S. Highway 29 | Asphalt | U.S. | Public | Bore |
| Pittsylvania | 7.2 | County Road 836 / White Oak Circle | Asphalt | County | Public | Bore |
| Pittsylvania | 7.4 | County Road 718 / Dry Fork Road | Asphalt | County | Public | Bore |
| Pittsylvania | 8.1 | County Road 1099 / Hylton Lane | Asphalt | County | Public | Bore |
| Pittsylvania | 9.4 | County Road 834 / Hopewell Road | Asphalt | County | Public | Bore |
| Pittsylvania | 10.2 | County Road 1071 / Tobacco Road | Gravel | County | Public | Open Cut |
| Pittsylvania | 10.8 | State Route 41 / Franklin Turnpike | Asphalt | State | Public | Bore |
| Pittsylvania | 12.4 | County Road 865 / Hutson Road | Asphalt | County | Public | Bore |
| Pittsylvania | 13.4 | County Road 866 / Sandy Creek Road | Asphalt | County | Public | Bore |
| Pittsylvania | 14.9 | County Road 750 / Whitmell School Road | Asphalt | County | Public | Bore |
| Pittsylvania | 15.9 | County Road 844 / Mount Cross Road | Asphalt | County | Public | Bore |
| Pittsylvania | 16.5 | County Road 868 / Silver Creek Road | Asphalt | County | Public | Bore |
| Pittsylvania | 18.3 | County Road 878 / Pine Lake Road | Asphalt | County | Public | Bore |
| Pittsylvania | 19.0 | County Road 876 / Cedar Spring Road | Asphalt | County | Public | Bore |
| Pittsylvania | 19.3 | County Road 869 / Stony Mill Road | Asphalt | County | Public | Bore |
| Pittsylvania | 20.0 | U.S. Highway 58 / Martinsville Highway | Asphalt | U.S. | Public | Bore |
| Pittsylvania | 22.1 | County Road 875 / Horseshoe Road | Asphalt | County | Public | Bore |
| Pittsylvania | 23.7 RR | County Road 862 / Oak Hill Road | Asphalt | County | Public | Bore |
| North Carolina | | | | | | |
| Rockingham | 26.2 | State Road 1745 / Buffalo Road | Asphalt | State | Public | Bore |
| Rockingham | 26.6 | U.S. Hwy 311 / Hwy 770 | Asphalt | State | Public | Bore |
| Rockingham | 30.5 | State Hwy 700 / S Fieldcrest Road | Asphalt | State | Public | Bore |
| Rockingham | 30.7 | State Road 1951 / Quesinberry Road | Asphalt | State | Public | Bore |
| Rockingham | 31.6 | State Road 1951 / Quesinberry Road | Asphalt | State | Public | Bore |

| REVISED [Oct 2019] - Table 8-B | | | | | | |
|---|----------|---|--------------|--------------|-------------------|-----------------|
| Roadways Crossed by the Southgate Project | | | | | | |
| Facility, State, County | Milepost | Road Name | Surface Type | Jurisdiction | Public or Private | Crossing Method |
| Rockingham | 33.2 | State Road 1945 / Moir Mill Road | Asphalt | State | Public | Bore |
| Rockingham | 36.3 | State Road 1980 / Mount Carmel Church Road | Asphalt | State | Public | Bore |
| Rockingham | 36.6 | State Road 1982 / Wolf Island Road | Asphalt | State | Public | Bore |
| Rockingham | 38.8 | State Road 1941 / Crutchfield Road | Asphalt | State | Public | Bore |
| Rockingham | 39.7 | U.S. Highway 29 | Asphalt | U.S. | Public | Bore |
| Rockingham | 40.4 | State Road 2552 / Narrow Gauge Road | Asphalt | State | Public | Bore |
| Rockingham | 41.6 | U.S. Highway 29 | Asphalt | U.S. | Public | Bore |
| Rockingham | 42.2 | U.S. Highway 158 | Asphalt | U.S. | Public | Bore |
| Rockingham | 43.2 | State Road 2579 / Brooks Road | Asphalt | State | Public | Bore |
| Rockingham | 43.4 | State Road 2588 / Knowles Road | Asphalt | State | Public | Bore |
| Rockingham | 44.9 | State Road 2571 / Grooms Road | Asphalt | State | Public | Bore |
| Rockingham | 48.4 | State Road 150 / State Highway 150 | Asphalt | State | Public | Bore |
| Rockingham | 49.1 | State Road 87 / State Highway 87 | Asphalt | State | Public | Bore |
| Rockingham | 49.5 | State Road 2614 / High Rock Road | Asphalt | State | Public | Bore |
| Rockingham | 51.6 RR | State Road 2619 / Kernodle Road | Asphalt | State | Public | Bore |
| Rockingham | 52.0 | State Road 2658 / Parkdale Road | Asphalt | State | Public | Bore |
| Rockingham | 52.6 | Tri County Drive | Gravel | Private | Private | Open Cut |
| Alamance | 53.1 | State Road 2903 / Troxler Mill Road | Asphalt | State | Public | Bore |
| Alamance | 53.3 | State Road 1577 / Lee Lewis Road | Asphalt | State | Public | Bore |
| Alamance | 54.1 | State Road 1576 / Jug House Road | Asphalt | State | Public | Bore |
| Alamance | 55.1 | State Road 1576 / Gilliam Church Road | Asphalt | State | Public | Bore |
| Alamance | 55.8 | State Highway 87 | Asphalt | State | Public | Bore |
| Alamance | 56.4 | State Road 1571 / Altamahaw Race Track Road | Asphalt | State | Public | Bore |
| Alamance | 56.5 | State Road 1649 / Lonzie Foster Trail | Gravel | State | Public | Open Cut |
| Alamance | 57.3 | State Route 1591 / Hollyfield Road" | Gravel | State | Public | Open Cut |
| Alamance | 57.5 | State Road 1565 / Dodd Road | Asphalt | State | Public | Bore |
| Alamance | 57.8 | State Road 1002 / Altamahaw Union Ridge Rd | Asphalt | State | Public | Bore |
| Alamance | 57.9 | State Road 1561 / Hub Mill Road | Asphalt | State | Public | Bore |
| Alamance | 59.3 RR | State Road 1595 / Danieleley Water Wheel Road | Asphalt | State | Public | Bore |
| Alamance | 60.0 | State Road 1593 / Burch Bridge Road | Asphalt | State | Public | Bore |
| Alamance | 60.3 | State Road 1598 / Isley School Road | Asphalt | State | Public | Bore |
| Alamance | 61.4 | State Road 1601 / Huffines Drive | Asphalt | State | Public | Bore |

| REVISED [Oct 2019] - Table 8-B | | | | | | |
|--|----------|---|--------------|--------------|-------------------|-----------------|
| Roadways Crossed by the Southgate Project | | | | | | |
| Facility, State, County | Milepost | Road Name | Surface Type | Jurisdiction | Public or Private | Crossing Method |
| Alamance | 62.8 | State Road 1001 / Union Ridge Road | Asphalt | State | Public | Bore |
| Alamance | 63.1 RR | State Highway 62 | Asphalt | State | Public | Bore |
| Alamance | 64.8 | State Route 1750 / Faucette Lane | Asphalt | State | Public | Bore |
| Alamance | 65.3 RR | State Road 1729 / Deep Creek Church Road | Asphalt | State | Public | Bore |
| Alamance | 66.1 RR | State Road 1735 / N. Fonville Rd | Asphalt | State | Public | Bore |
| Alamance | 66.4 RR | State Road 1752 / Sandy Cross Road | Asphalt | State | Public | Bore |
| Alamance | 68.2 | Indian Village Trail | Gravel | County | Public | Open Cut |
| Alamance | 68.7 | State Road 1737 / Haw River Hopedale Road | Asphalt | State | Public | Bore |
| Alamance | 69.0 | U.S. Highway 70 / Haw River Bypass | Asphalt | U.S. | Public | Bore |
| Alamance | 69.6 RR | State Highway 49 / W. Main Street | Asphalt | State | Public | Bore |
| Alamance | 69.7 RR | State Road 1935 / Stone St | Asphalt | State | Public | Bore |
| Alamance | 71.3 | Interstate 40 / Interstate 85 | Asphalt | U.S. | Public | Bore |
| Alamance | 72.9 RR | State Highway 54 / E Harden Street | Asphalt | State | Public | Bore |
| Notes: N/A = Not Applicable Mileposts with an "RR" indicate locations where a re-route was incorporated into the pipeline alignment. | | | | | | |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Virginia | | | | | | | | |
| Pittsylvania | 0.0 | 1- Story House | Yes | North | 22 | 2,563 | RSS-H650-045 | Stay within access road PA-PI-001C limits. Proposed barricade fence 100 linear feet from house. |
| Pittsylvania | 0.1 | House - 2 Story | No | South | 27 | 911 | N/A | Protect |
| Pittsylvania | 0.1 | Barn | No | South | 42 | 1,037 | N/A | Protect |
| Pittsylvania | 2.3 | Shed | No | East | 50 | 1,278 | N/A | Stay within access road TA-PI-005 limits. |
| Pittsylvania | 2.3 | Shed | No | East | 7 | 1,720 | N/A | Stay within access road TA-PI-005 limits. |
| Pittsylvania | 2.3 | Shed | No | East | 35 | 1,828 | N/A | Stay within access road TA-PI-005 limits. |
| Pittsylvania | 2.3 | Shed | No | East | 4 | 1,871 | N/A | Stay within access road TA-PI-005 limits. |
| Pittsylvania | 2.3 | Shed | No | East | 0 | 1,821 | N/A | Protect |
| Pittsylvania | 2.3 | Shed | No | East | 20 | 1,967 | N/A | Stay within access road TA-PI-005 limits. |
| Pittsylvania | 2.3 | Shed | No | East | 0 | 2,012 | N/A | Protect |
| Pittsylvania | 4.5 | 1- Story House | Yes | East | 4 | 735 | RSS-H650-024 | Use existing driveway (TA-PI-007) to pass by residences. Post both enter and exit caution/slow signage to alert contractors. Proposed Barricade Fence 100 linear feet from corner of house. |
| Pittsylvania | 4.5 | Garage | No | East | 0 | 663 | RSS-H650-024 | Protect |
| Pittsylvania | 4.5 | Garage | No | East | 0 | 748 | RSS-H650-024 | Protect |
| Pittsylvania | 4.5 | Farm Stalls | No | East | 10 | 880 | N/A | Stay within access road TA-PI-007 limits. |
| Pittsylvania | 4.5 | Barn | No | East | 0 | 930 | RSS-H650-024 | Protect |
| Pittsylvania | 4.5 | Well Pump House | No | East | 17 | 921 | N/A | Stay within access road TA-PI-007 limits. |
| Pittsylvania | 5.1 | House | Yes | East | 48 | 2,886 | N/A | Stay within access road TA-PI-011 limits. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|---|---|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number a/ | Mountain Valley Proposed Action a/ |
| Pittsylvania | 6.5 | Office | Yes | West | 28 | 1,283 | N/A | Stay within access road TA-PI-016 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 25 | 930 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 47 | 923 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | House | Yes | East | 46 | 862 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 0 | 917 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 6 | 943 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 7 | 877 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 8.5 | Shed | No | East | 5 | 935 | N/A | Stay within access road TA-PI-022 limits. |
| Pittsylvania | 9.0 | Barn | No | West | 10 | 1,445 | N/A | Stay within access road TA-PI-023 limits. |
| Pittsylvania | 9.0 | Barn | No | West | 13 | 1,482 | N/A | Stay within access road TA-PI-023 limits. |
| Pittsylvania | 9.0 | Tobacco Shed | No | West | 5 | 1,642 | N/A | Stay within access road TA-PI-023 limits. |
| Pittsylvania | 10.3 | 2-Story House | Yes | East | 34 | 59 | RSS-H650-016 | Protect – Proposed barricade fence. |
| Pittsylvania | 10.3 | Porch | Yes | East | 22 | 46 | RSS-H650-016 | Protect – Proposed barricade fence. |
| Pittsylvania | 10.3 | Garage | No | East | 29 | 54 | RSS-H650-016 | Protect |
| Pittsylvania | 10.3 | Shed | No | East | 0 | 10 | RSS-H650-016 | To be removed |
| Pittsylvania | 10.6 | Shed | No | East | 49 | 110 | N/A | Protect |
| Pittsylvania | 10.7 | House - 2 story | Yes | East | 28 | 88 | N/A | Protect |
| Pittsylvania | 10.8 | Mailbox stone column | No | West | 0 | 14 | N/A | Remove |
| Pittsylvania | 10.8 | Stone entry wall | No | West | 0 | 0 | N/A | Remove |
| Pittsylvania | 10.8 | Stone entry wall | No | East | 0 | 14 | N/A | Remove |
| Pittsylvania | 13.1 | Shed | No | East | 11 | 205 | N/A | Stay within access road TA-PI-032 limits. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Pittsylvania | 14.9 | House | Yes | East | 46 | 152 | N/A | Protect |
| Pittsylvania | 15.9 | Garage | No | East | 5 | 55 | N/A | Protect |
| Pittsylvania | 16.0 | Shed | No | East | 0 | 164 | N/A | Protect |
| Pittsylvania | 16.3 | Mobile home - single wide | Yes | East | 28 | 86 | N/A | Protect |
| Pittsylvania | 16.3 | Garage | No | East | 28 | 133 | N/A | Protect |
| Pittsylvania | 16.7 | 1-Story House | Yes | West | 28 | 282 | RSS-H650-029 | Use existing driveway (TA-PI-041) to pass by residences. Post both enter and exit caution/slow signage to alert contractors. |
| Pittsylvania | 17.2 | Barn | No | East | 0 | 1,718 | N/A | Protect |
| Pittsylvania | 17.2 | House | Yes | East | 31 | 1,857 | N/A | Stay within access road TA-PI-043 limits. |
| Pittsylvania | 18.4 | Tobacco Shed | No | West | 5 | 29 | N/A | Protect |
| Pittsylvania | 18.4 | Tobacco Shed | No | West | 10 | 34 | N/A | Protect |
| Pittsylvania | 19.1 | Garage | No | East | 46 | 108 | N/A | Protect |
| Pittsylvania | 19.6 | Shed | No | West | 34 | 93 | N/A | Protect |
| Pittsylvania | 19.9 | Business - auto sales | No | West | 35 | 288 | N/A | Stay within access road TA-PI-050 limits. |
| Pittsylvania | 20.2 | Garage | No | East | 18 | 35 | N/A | Protect |
| Pittsylvania | 20.2 | Mobile home | Yes | East | 26 | 81 | RSS-H650-004 | Install safety fence at limit of workspace extending 100 feet from house. |
| Pittsylvania | 20.3 | Car awning | No | East | 5 | 44 | RSS-H650-005 | Proposed barricade fence. Protect |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Pittsylvania | 20.3 | Mobile home | Yes | East | 26 | 61 | RSS-H650-005 | The workspace has been adjusted in this location. Proposed barricade fence. Protect |
| Pittsylvania | 22.0 | 2-Story House | Yes | East | 45 | 133 | N/A | Protect |
| Pittsylvania | 22.2 | House - 1 story, fallen down | No | East | 0 | 79 | RSS-H650-041 | Protect if possible or Remove |
| North Carolina | | | | | | | | |
| Rockingham | 28.1 | Shed | No | West | 33 | 3,678 | N/A | Protect |
| Rockingham | 29.2 | Shed | No | West | 37 | 1,331 | N/A | Protect |
| Rockingham | 29.2 | Shed | No | West | 23 | 1,217 | N/A | Protect |
| Rockingham | 29.2 | Shed | No | West | 26 | 1,185 | N/A | Protect |
| Rockingham | 29.6 | Mobile home | Yes | West | 43 | 1,680 | N/A | Protect |
| Rockingham | 30.0 | Barn | No | West | 0 | 1,397 | RSS-H650-030 | Protect |
| Rockingham | 30.0 | House | Yes | West | 30 | 1,422 | RSS-H650-030 | Stay within access road TA-RO-080 limits. |
| Rockingham | 30.5 | House - 1 story, abandoned | No | North | 3 | 43 | RSS-H650-031 | Protect |
| Rockingham | 30.5 | House - 1 story | Yes | South | 29 | 122 | N/A | Protect |
| Rockingham | 30.7 | House - 1 Story | Yes | East | 40 | 100 | N/A | Protect |
| Rockingham | 31.7 | House - 1 story | Yes | North | 46 | 86 | N/A | Protect |
| Rockingham | 32.4 | Shed | No | East | 4 | 1,467 | N/A | Stay within access road TA-RO-085 limits. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Rockingham | 32.5 | 1-Story House | Yes | East | 20 | 1,430 | RSS-H650-025 | Stay within limits of access road TA-RO-085. Proposed barricade fence 100 linear feet from corner of house. |
| Rockingham | 32.8 | Barn | No | West | 4 | 959 | N/A | Stay within limits of access road TA-RO-087. |
| Rockingham | 32.8 | Barn | No | West | 4 | 1551 | N/A | Stay within limits of access road TA-RO-087. |
| Rockingham | 35.4 | Shed - abandoned | No | North | 0 | 232 | N/A | Protect if possible or remove |
| Rockingham | 35.4 | Mobile home | Yes | North | 32 | 512 | N/A | Stay within limits of access road TA-RO-092. |
| Rockingham | 35.4 | House - 1 story | Yes | North | 27 | 560 | N/A | Stay within limits of access road TA-RO-092. |
| Rockingham | 36.4 | Abandoned cabin | No | North | 37 | 97 | N/A | Protect |
| Rockingham | 36.5 | Abandoned cabin | No | North | 32 | 91 | N/A | Protect |
| Rockingham | 36.5 | Abandoned cabin | No | North | 30 | 90 | N/A | Protect |
| Rockingham | 36.5 | Abandoned cabin | No | North | 30 | 93 | N/A | Protect |
| Rockingham | 36.6 | Barn | No | South | 25 | 64 | N/A | Protect |
| Rockingham | 36.6 | Garage | No | South | 35 | 150 | N/A | Protect |
| Rockingham | 36.6 | House | No | South | 36 | 151 | N/A | Protect |
| Rockingham | 37.1 | House - 1 story, abandoned | No | East | 0 | 48 | RSS-H650-032 | Protect if possible or remove. |
| Rockingham | 37.70 | House | Yes | West | 45 | 1,365 | N/A | Stay within limits of access road TA-RO-102. |
| Rockingham | 39.60 | Barn | No | West | 12 | 493 | N/A | Stay within limits of access road TA-RO-107. |
| Rockingham | 39.60 | Barn | No | West | 14 | 502 | RSS-H650-046 | Stay within limits of access road TA-RO-107. |
| Rockingham | 39.60 | 1-Story House | Yes | West | 12 | 490 | RSS-H650-046 | Stay within limits of access road TA-RO-107. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Rockingham | 40.3 | House - 1 story | Yes | East | 26 | 65 | RSS-H650-034 | The workspace has been adjusted in this location. Proposed barricade fence. Protect |
| Rockingham | 40.9 | Shed | No | West | 44 | 1,229 | N/A | Stay within limits of access road TA-RO-111. |
| Rockingham | 40.9 | House | Yes | West | 50 | 1,304 | N/A | Stay within limits of access road TA-RO-111. |
| Rockingham | 40.9 | Shed | No | West | 22 | 1,313 | N/A | Stay within limits of access road TA-RO-111. |
| Rockingham | 41.4 | Abandoned Old House | No | West | 0 | 0 | RSS-H650-047 | Remove |
| Rockingham | 41.4 | House | Yes | West | 13 | 1,514 | RSS-H650-048 | Stay within limits of access road TA-RO-112. |
| Rockingham | 41.4 | House | Yes | West | 50 | 1,697 | N/A | Stay within limits of access road TA-RO-112. |
| Rockingham | 41.8 | Barn | No | North | 23 | 804 | N/A | Stay within limits of access road TA-RO-113A. |
| Rockingham | 42.4 | Shed | No | West | 9 | 47 | N/A | Protect |
| Rockingham | 43.1 | Garage | No | East | 5 | 46 | N/A | Protect |
| Rockingham | 43.1 | 1-Story House | No | West | 11 | 114 | RSS-H650-039 | Protect |
| Rockingham | 43.9 | Shed, abandoned | No | East | 2 | 886 | N/A | Stay within limits of access road TA-RO-119. |
| Rockingham | 44.1 | Shed | No | East | 5 | 1,328 | N/A | Stay within limits of access road TA-RO-122. |
| Rockingham | 44.1 | Shed | No | East | 0 | 1,615 | RSS-H650-026 | Protect |
| Rockingham | 44.1 | 1- Story House | Yes | East | 3 | 1,612 | RSS-H650-026 | Stay within limits of access road TA-RO-122. Proposed barricade fence. |
| Rockingham | 45.0 | House - 2 story, abandoned | No | West | 26 | 110 | N/A | Stay within limits of access road TA-RO-125. |
| Rockingham | 46.1 | Storage building | No | West | 24 | 718 | N/A | Protect |
| Rockingham | 46.1 | Shed | No | West | 47 | 750 | N/A | Stay within limits of access road TA-RO-127. |
| Rockingham | 46.1 | Shed | No | West | 0 | 884 | N/A | Stay within limits of access road TA-RO-127. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Rockingham | 46.1 | Shed | No | West | 21 | 928 | N/A | Stay within limits of access road TA-RO-127. |
| Rockingham | 46.1 | Mobile home | Yes | North | 32 | 925 | N/A | Stay within limits of access road TA-RO-127. |
| Rockingham | 46.1 | 1-Story House | Yes | West | 18 | 1,058 | RSS-H650-027 | Stay within limits of access road TA-RO-127. Proposed barricade fence. |
| Rockingham | 46.1 | House | Yes | West | 35 | 2,205 | N/A | Stay within limits of access road TA-RO-127. |
| Rockingham | 49.1 | House - 2 story, log cabin, abandoned | No | Crosses | 0 | 0 | RSS-H650-001 | To be removed |
| Rockingham | 49.2 | Dilapidated shack | No | West | 0 | 3 | RSS-H650-002 | To be removed |
| Rockingham | 49.2 | Smoke House | No | East | 0 | 10 | RSS-H650-002 | To be removed |
| Rockingham | 49.3 | Chicken coop | No | Crosses | 0 | 0 | RSS-H650-002 | To be removed |
| Rockingham | 49.3 | Shed | No | East | 0 | 31 | RSS-H650-002 | To be removed |
| Rockingham | 49.3 | House - 2 story, abandoned | No | East | 11 | 59 | RSS-H650-002 | The workspace has been adjusted in this location Protect |
| Rockingham | 49.3 | Shed | No | East | 0 | 62 | N/A | Relocate if possible, or remove. |
| Rockingham | 49.8 | Car awning | No | West | 44 | 635 | N/A | Stay within limits of access road TA-RO-138. |
| Rockingham | 52.6 | Tractor awning | No | North | 21 | 153 | N/A | Protect |
| Alamance | 52.9 | 1-Story House | Yes | East | 32 | 125 | N/A | Protect |
| Alamance | 53.0 | Barn, abandoned | No | East | 7 | 154 | N/A | Protect |
| Alamance | 53.0 | Barn, abandoned | No | East | 20 | 155 | N/A | Protect |
| Alamance | 53.0 | Shed | No | East | 0 | 33 | N/A | Relocate if possible, or remove. |
| Alamance | 53.0 | Falling down wood building | No | East | 0 | 57 | N/A | Remove |
| Alamance | 54.7 | Barn | No | West | 10 | 1,907 | N/A | Stay within limits of access road TA-AL-155. |
| Alamance | 54.7 | Barn | No | West | 18 | 1,962 | N/A | Stay within limits of access road TA-AL-155. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|--|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Alamance | 54.7 | Barn | No | West | 5 | 1,976 | N/A | Stay within limits of access road TA-AL-155. |
| Alamance | 54.7 | Barn | No | West | 15 | 2,071 | N/A | Stay within limits of access road TA-AL-155. |
| Alamance | 54.7 | Barn | No | West | 0 | 2,058 | N/A | Protect |
| Alamance | 54.7 | Barn | No | West | 0 | 2,210 | N/A | Protect |
| Alamance | 54.7 | Garage | No | West | 21 | 2,256 | N/A | Stay within limits of access road TA-AL-155. |
| Alamance | 54.7 | House, 1-Story | No | West | 29 b/ | 2,100 | RSS-H650-040 | Protect |
| Alamance | 55.1 | Shed | No | East | 21 | 126 | N/A | Protect |
| Alamance | 56.5 RR | Garage | No | East | 35 | 193 | N/A | Protect |
| Alamance | 56.8 | Shed | No | West | 10 | 219 | N/A | Protect |
| Alamance | 57.3 | Shed | No | East | 17 | 73 | N/A | Protect |
| Alamance | 57.3 | Garage | No | East | 15 | 106 | N/A | Protect |
| Alamance | 57.8 | Barn, abandoned | No | East | 6 | 120 | N/A | Protect |
| Alamance | 57.8 | Mobile home | Yes | North | 26 | 83 | RSS-H650-008 | The workspace has been adjusted in this location. Proposed barricade fence. Protect |
| Alamance | 57.8 | Barn | No | East | 12 | 256 | N/A | Stay within limits of access road TA-AL-161. |
| Alamance | 58.0 | Barn | No | East | 18 | 434 | N/A | Stay within limits of access road TA-AL-162. |
| Alamance | 59.1 | 1-Story House | Yes | South | 43 | 115 | N/A | Protect |
| Alamance | 59.1 | Shed | No | South | 0 | 91 | N/A | Protect |
| Alamance | 59.2 | 1-Story House | Yes | South | 44 | 84 | N/A | Protect |
| Alamance | 59.2 RR | Shed | No | North | 8 | 75 | N/A | Protect |
| Alamance | 59.2 RR | Shed | No | North | 10 | 106 | N/A | Protect |
| Alamance | 59.4 RR | House | Yes | North | 47 | 82 | N/A | Protect |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|---|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Alamance | 61.5 | Shed | No | East | 26 | 180 | N/A | Stay within limits of access road TA-AL-168. |
| Alamance | 61.5 | Shed | No | East | 38 | 175 | N/A | Stay within limits of access road TA-AL-168. |
| Alamance | 62.5 | Shed | No | North | 0 | 327 | N/A | Protect |
| Alamance | 62.7 | 1-Story House | No | North | 6 | 515 | RSS-H650-037 | Protect |
| Alamance | 62.5 | Barn | No | North | 0 | 62 | N/A | To be removed |
| Alamance | 65.0 RR | Shed | No | Crosses | 0 | 0 | N/A | To be removed |
| Alamance | 66.4 RR | Barn | No | Crosses | 0 | 0 | N/A | To be removed |
| Alamance | 66.9 RR | Shed | No | West | 0 | 31 | N/A | To be removed |
| Alamance | 67.0 RR | Shed | No | East | 26 | 167 | N/A | Protect |
| Alamance | 67.0 RR | Barn | No | East | 3 | 43 | N/A | Protect |
| Alamance | 67.1 RR | 1-Story House | Yes | West | 16 | 76 | RSS-H650-051 | Protect |
| Alamance | 67.1 RR | Barn | No | West | 22 | 82 | N/A | Protect |
| Alamance | 67.3 RR | 1-Story House | Yes | West | 18 | 1,013 | RSS-H650-028 | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. |
| Alamance | 67.3 RR | 1-Story House | Yes | West | 8 | 921 | RSS-H650-028 | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. |
| Alamance | 67.3 RR | Barn | Yes | West | 12 | 795 | RSS-H650-028 | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. |
| Alamance | 67.3 RR | Barn | Yes | West | 15 | 708 | RSS-H650-028 | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. |
| Alamance | 67.3 RR | Barn | Yes | West | 2 | 600 | RSS-H650-028 | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. |
| Alamance | 67.9 | Barn | No | East | 6 | 1,146 | N/A | Stay within limits of access road TA-AL-181. |
| Alamance | 68.2 | House | No | West | 28 | 1,203 | N/A | Stay within limits of access road TA-AL-181A. |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|---|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Alamance | 68.2 | Mobile home | No | West | 28 | 1,143 | N/A | Stay within limits of access road TA-AL-181A. |
| Alamance | 68.2 | House | Yes | West | 43 | 1,055 | N/A | Stay within limits of access road TA-AL-181A. |
| Alamance | 68.2 | 1-Story House | No | West | 10 | 863 | RSS-H650-038 | Protect |
| Alamance | 68.2 | Car port | No | West | 34 | 655 | N/A | Stay within limits of access road TA-AL-181A. |
| Alamance | 68.2 | Garage | No | West | 36 | 479 | N/A | Stay within limits of access road TA-AL-181A. |
| Alamance | 68.6 | Barn | No | North | 5 | 76 | N/A | Protect |
| Alamance | 69.1 | 2-Story House | Yes | East | 26 | 88 | RSS-H650-009 | Install safety fence at limit of workspace extending 100 feet from house. |
| Alamance | 69.3 | Shed | No | North | 7 | 66 | N/A | Protect |
| Alamance | 69.3 | Chicken / rabbit coop | No | Crosses | 0 | 0 | N/A | Remove or Relocate |
| Alamance | 69.3 | Shed | No | North | 0 | 4 | N/A | Remove or Relocate |
| Alamance | 69.4 | Shed | No | North | 31 | 117 | N/A | Protect |
| Alamance | 69.4 | Portable building | No | North | 32 | 116 | N/A | Protect |
| Alamance | 69.4 | Shed in concrete | No | North | 28 | 87 | N/A | Protect |
| Alamance | 69.4 | Shed | No | North | 43 | 104 | N/A | Protect |
| Alamance | 69.5 | Shed | No | East | 48 | 117 | N/A | Protect |
| Alamance | 69.6 RR | 2-Story House | Yes | East | 13 | 35 | RSS-H650-050 | Protect |
| Alamance | 69.6 RR | Store | No | West | 2 | 27 | N/A | Protect |
| Alamance | 69.6 RR | Store | No | West | 16 | 76 | N/A | Protect |
| Alamance | 69.6 RR | House | Yes | East | 31 | 71 | N/A | Protect |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|---|---|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number a/ | Mountain Valley Proposed Action a/ |
| Alamance | 69.7 RR | House | Yes | West | 26 | 77 | N/A | Protect |
| Alamance | 69.7 RR | House | Yes | West | 26 | 98 | N/A | Protect |
| Alamance | 69.7 RR | Abandoned clothing factory | No | East | 5 | 48 | N/A | Protect |
| Alamance | 69.9 RR | Abandoned clothing factory | No | East | 5 | 47 | N/A | Protect |
| Alamance | 69.9 RR | Commercial building | No | East | 0 | 32 | N/A | To be removed |
| Alamance | 70.7 | Shed, fallen down | No | West | 35 | 76 | N/A | Protect |
| Alamance | 71.4 | Green House | No | East | 48 | 107 | N/A | Protect |
| Alamance | 71.4 | Green House | No | East | 38 | 100 | N/A | Protect |
| Alamance | 72.2 | Shed | No | East | 48 | 174 | N/A | Protect |
| Alamance | 72.7 | Garage | No | East | 38 | 97 | N/A | Protect |
| Alamance | 72.8 RR | Shed | No | East | 16 | 64 | N/A | Protect |
| Alamance | 72.8 RR | Garage | No | West | 48 | 56 | RSS-H650-015 | N/A |
| Alamance | 72.8 RR | Garage | No | Crosses | 0 | 0 | RSS-H650-015 | To be removed |
| Alamance | 72.8 RR | Camper | No | Crosses | 0 | 0 | RSS-H650-015 | To be removed |
| Alamance | 72.8 RR | Shed | No | East | 45 | 182 | N/A | Protect |
| Alamance | 72.9 RR | Mobile home | Yes | West | 11 | 37 | RSS-H650-036 | Protect |
| Alamance | 72.9 RR | 1-Story House - Abandoned | No | Crosses | 0 | 0 | RSS-H650-036 | To be removed |
| Pittsylvania | CY-01 | House - 1 story | No | North | 0 | 1,511 | RSS-H650-033 | Install safety fence around the house at a 1-foot off-set from the property line. |
| Pittsylvania | CY-01 | Garage | No | North | 0 | 1,586 | RSS-H650-033 | Install safety fence around the house at a 1-foot off-set from the property line. |
| Pittsylvania | CY-03 | Warehouse | No | East | 0 | 58,418 | N/A | N/A |

| REVISED [Oct 2019] - Table 8-D | | | | | | | | |
|--|----------------------|---|-------------------|--|--|---|--|---|
| Structures within 50 Feet of the Southgate Project | | | | | | | | |
| State, County | Approximate Milepost | Building Type (House, Shed, Garage, etc.) | Occupied (yes/no) | Direction from centerline of easement (North, East, South, West) | Distance from Edge of closest workspace limit (feet) | Distance From Centerline of easement (feet) | Residential Construction Plan Number <u>a/</u> | Mountain Valley Proposed Action <u>a/</u> |
| Rockingham | CY-05 | House - 1 story | Yes | West | 0 | 15,620 | RSS-H650-003 | Install safety fence around the house at a 1-foot off-set from the property line and 15-foot offset from the house. |
| Rockingham | CY-05 | Fuel bays | No | West | 0 | 15,418 | N/A | N/A |
| Rockingham | CY-05 | Truck stop | No | West | 0 | 15,368 | N/A | N/A |
| Rockingham | CY-05 | Garage bays | No | West | 0 | 15,325 | N/A | N/A |
| Rockingham | CY-05 | Warehouse | No | West | 0 | 14,825 | N/A | N/A |
| Rockingham | CY-05 | Garage | No | West | 0 | 14,725 | N/A | N/A |
| Pittsylvania | CY-19 | House - 2 story | Yes | West | <u>26</u> | 10,188 | RSS-H650-043 | The limit of disturbance for the contractor yard will be trimmed to allow 26 feet between the limit of the yard and the residence |
| Pittsylvania | CY-22 | House - 1 story Fallen down | No | West | <u>26</u> | 11,527 | RSS-H650-044 | The limit of disturbance for the contractor yard will be trimmed to allow 26 feet between the limit of the yard and the residence |

a/ See Appendix 8-C. N/A = Not Applicable.
b/ Pending civil survey, approximate distance based on aerial photography.

| REVISED [Oct 2019] - Table 23-1 | | | | | | |
|---------------------------------|----------|--|--|--|--|---|
| Drawing No. | Milepost | Tract No(s) | Noise and vibration mitigation (See EIR# 23b) | Other construction techniques (See EIR# 23c) | Landowner negotiation status for residences to be removed (See EIR# 23d) | Landowner negotiation status for residences within 15 feet of construction workspace areas (See EIR# 24) |
| RSS-H650-001 | 49.10 | NC-RO-162.000 | Not Applicable | To be Removed | Negotiating | Negotiating |
| RSS-H650-002 | 49.25 | NC-RO-165.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Not Applicable | Negotiating |
| RSS-H650-003 | CY-05 | NC-RO-001.200.CY05 NC-RO-001.300.CY05 NC-RO-001.400.CY05 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Install safety fence around the house at a 1-foot offset from the property line and 15-foot offset from the house. | Not Applicable | NC-RO-001.200.CY05 NC-RO-001.300.CY05 – ARE BOTH ACQUIRED NC-RO-001.200.CY05 is not and will not be an occupied residence. Available for CY office space as offered by the Landowner. Landowner has stated they have no intention of allowing residential occupation. NC-RO-001.400.CY05 is Negotiating. |
| RSS-H650-024 | 4.50 | VA-PI-033.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Use existing driveway (TA-PI-007) to pass by residences. Post both enter and exit caution/slow signage to alert contractors. Proposed Barricade Fence 100 linear feet from corner of house. | Not Applicable | Acquired - No specific Agreement regarding structure. |

| REVISED [Oct 2019] - Table 23-1 | | | | | | |
|---------------------------------|----------|--------------------------------|--|---|--|--|
| Drawing No. | Milepost | Tract No(s) | Noise and vibration mitigation (See EIR# 23b) | Other construction techniques (See EIR# 23c) | Landowner negotiation status for residences to be removed (See EIR# 23d) | Landowner negotiation status for residences within 15 feet of construction workspace areas (See EIR# 24) |
| RSS-H650-026 | 44.10 | NC-RO-133.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Stay within limits of access road TA-RO-122. Proposed barricade fence. | Not Applicable | Acquired - No specific Agreement regarding structure. |
| RSS-H650-028 | 67.30 | NC-AL-133.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Stay within limits of access road TA-AL-180. Proposed barricade fence 100 linear feet from corner of house. | Not Applicable | Acquired |
| RSS-H650-031 | 30.5 | NC-RO-019.000 NC-RO-022.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Protect | Not Applicable | NC-RO-019.000 is Negotiating NC-RO-022.000 - Acquired |
| RSS-H650-032 | 37.1 | NC-RO-069.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Acquired - No specific Agreement regarding structure. | Acquired - No specific Agreement regarding structure. |

| REVISED [Oct 2019] - Table 23-1 | | | | | | |
|---------------------------------|----------|---------------|--|--|--|--|
| Drawing No. | Milepost | Tract No(s) | Noise and vibration mitigation (See EIR# 23b) | Other construction techniques (See EIR# 23c) | Landowner negotiation status for residences to be removed (See EIR# 23d) | Landowner negotiation status for residences within 15 feet of construction workspace areas (See EIR# 24) |
| RSS-H650-033 | CY-01 | VA-PI-002.015 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Install safety fence around the house at a 1-foot offset from the property line. | Not Applicable | Mountain Valley owns parcel and structure. |
| RSS-H650-036 | 72.9 | NC-AL-207.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Removal of structure is currently being discussed as part of negotiation | Agreement pending execution |
| RSS-H650-037 | 62.7 | NC-AL-086.200 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Not Applicable | Negotiating |
| RSS-H650-038 | 68.2 | NC-AL-143.100 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Not Applicable | Negotiating |

| REVISED [Oct 2019] - Table 23-1 | | | | | | |
|---------------------------------|----------|---------------|--|--|--|--|
| Drawing No. | Milepost | Tract No(s) | Noise and vibration mitigation (See EIR# 23b) | Other construction techniques (See EIR# 23c) | Landowner negotiation status for residences to be removed (See EIR# 23d) | Landowner negotiation status for residences within 15 feet of construction workspace areas (See EIR# 24) |
| RSS-H650-039 | 43.1 | NC-RO-118.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Not Applicable | Acquired |
| RSS-H650-041 | 22.2 | VA-PI-171.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Acquired | Acquired |
| RSS-H650-046 | 39.6 | NC-RO-094.300 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Stay within limits of access road TA-RO-107. | Not Applicable | Acquired |
| RSS-H650-047 | 41.4 | NC-RO-111.000 | Not Applicable | Remove | Acquired | Acquired |
| RSS-H650-048 | 41.4 | NC-RO-111.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Stay within limits of access road TA-RO-112 | Acquired | Acquired |

| REVISED [Oct 2019] - Table 23-1 | | | | | | |
|---------------------------------|----------|---------------|--|--|--|--|
| Drawing No. | Milepost | Tract No(s) | Noise and vibration mitigation (See EIR# 23b) | Other construction techniques (See EIR# 23c) | Landowner negotiation status for residences to be removed (See EIR# 23d) | Landowner negotiation status for residences within 15 feet of construction workspace areas (See EIR# 24) |
| RSS-H650-050 | 69.6 | NC-AL-168.000 | Minimize work duration by proactive construction planning and execution. Only utilize construction equipment necessary to complete the work scope. Limit work hours to daylight hours. | Not Applicable | Negotiating | Negotiating |



MVP Southgate Project

Docket No. CP19-14-000

Landowner Complaint Resolution Procedure

October 2019

FERC Environmental Condition #9

Mountain Valley shall develop and implement an environmental complaint resolution procedure, and file such procedure with the Secretary, for review and approval by the Director of OEP. The procedure shall provide landowners with clear and simple directions for identifying and resolving their environmental mitigation problems/concerns during construction of the Project and restoration of the right-of-way. Prior to **construction**, Mountain Valley shall mail the complaint procedures to each landowner whose property will be crossed by the Project.

- a. In its letter to affected landowners, Mountain Valley shall:
 - i. provide a local contact that the landowners should call first with their concerns; the letter shall indicate how soon a landowner should expect a response;
 - ii. instruct the landowners that if they are not satisfied with the response, they should call Mountain Valley's Hotline; the letter shall indicate how soon to expect a response; and
 - iii. instruct the landowners that if they are still not satisfied with the response from Mountain Valley's Hotline, they should contact the Commission's Landowner Helpline at 877-337-2237 or at LandownerHelp@ferc.gov.
- b. In addition, Mountain Valley shall include in its weekly status report a copy of a table that contains the following information for each problem/concern:
 - i. the identity of the caller and date of the call;
 - ii. the location by milepost and identification number from the authorized alignment sheet(s) of the affected property;
 - iii. a description of the problem/concern; and
 - iv. an explanation of how and when the problem was resolved, will be resolved, or why it has not been resolved.

MVP Southgate Project Response

The Project has developed and will implement an environmental complaint resolution procedure, Mountain Valley is filing this procedure with the Secretary, for review and approval by the Director of OEP. The procedure will provide landowners with clear and simple directions for identifying and resolving their environmental mitigation problems/concerns during construction of the Project and restoration of the right-of-way. Prior to construction, the Project will mail in a letter, the complaint procedures to each landowner whose property will be crossed by the Project.

Below is the proposed environmental complaint resolution procedure.

ENVIRONMENTAL COMPLAINT RESOLUTION PROCEDURES

Mountain Valley Pipeline, LLC (Mountain Valley) will work to address and resolve complaints regarding the construction and restoration of the MVP Southgate Project (Project) in a timely manner. The Project team has worked diligently with landowners to identify the best possible route for the proposed pipeline and we value the relationships we have formed with these stakeholders. Mountain Valley will continue to work with landowners throughout the construction of the pipeline to address any issues that may arise and we have established specific procedures to resolve any landowner concerns.

First, Mountain Valley has established local contacts for landowners to call first with their concerns. The name and contact information for this local contact will be provided to landowners. Landowners should generally expect an initial response from the local contact within 24 hours.

Second, if landowners are not satisfied with the response from the local contact, they can call the Project's 24-hour hotline at 1-833-MV-SOUTH (1-833-687-6884) or send an email to mail@mvpSouthgate.com. The hotline is a toll-free number that serves as a means for landowners and stakeholders to contact appropriate representatives with questions, concerns, and complaints. The hotline call response process is as follows:

Step 1: Gathering Information

A Mountain Valley representative will contact and request all necessary information to complete the caller information section of the hotline record, including the caller's name, address, phone number, and brief description of the purpose of the call.

Step 2: Defining the Issues

The Mountain Valley representative will work with the caller to help understand and address their concerns. If a representative can resolve the issue, they will record this on the hotline record. Otherwise, the caller will be advised that their concerns have been documented and that they can generally expect a return call within 24 hours from an appropriate Mountain Valley representative.

Step 3: Resolution

If the issues are resolved during Step 2, a representative will complete the process by documenting how a resolution was reached for the hotline record. If a resolution is not reached during Step 2, the hotline record will be forwarded to the appropriate Mountain Valley representative who will return the call. The process for this issue should generally follow these steps until resolution is reached. For any contact received through a means other than the hotline or the local contact described above, the Mountain Valley representative will either (a) direct the landowner to the local contact or hotline as appropriate or (b) request all necessary information to complete the caller information section of the record including the caller's name, address, phone number, and Project reference and proceed to Step 2 above.

Third, if a resolution is not reached or the landowner is not satisfied with the response from Mountain Valley, then the landowner may contact the FERC Landowner Helpline at 877-337- 2237 or at LandownerHelp@ferc.gov.

Mountain Valley will include in its weekly status report a table that contains the following information for each problem/concern: the identity of the caller and date of the call; the location by milepost and identification number from the authorized alignment sheet(s) of the affected property; a description of the problem/concern; and an explanation of how and when the problem was resolved, will be resolved, or why it has not been resolved.



MVP Southgate Project

Docket No. CP19-14-000

Resource Report 9 Table Updates

October 2019

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| REVISED [Oct 2019] - Table 9.2-6 | | | | | | | | |
|--|-----------------------------------|---------------|---------------|------------------|------------------|-----------------|--------------|-------------|
| Estimated Construction Emissions from the MVP Southgate Project – 2020 | | | | | | | | |
| SOURCE | 2020 CONSTRUCTION EMISSIONS (TPY) | | | | | | | |
| | CO ₂ | CO | NOx | PM ₁₀ | PM ₂₅ | SO ₂ | VOC | HAPS |
| Lambert Compressor Station/Interconnect: | | | | | | | | |
| Construction Equipment Engines | 7,664 | 15.26 | 22.16 | 1.64 | 1.64 | 0.0413 | 3.13 | 0.18 |
| On-Road Vehicle Travel | 470 | 3.77 | 0.46 | 3.72 | 0.92 | 0.0033 | 0.13 | 0.05 |
| Off-Road Vehicle Travel | 1,766 | 5.78 | 3.87 | 17.63 | 2.04 | 0.0144 | 0.50 | 0.11 |
| Earthmoving Fugitives | N/A | N/A | N/A | 12.61 | 1.26 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 1.81 | 0.27 | N/A | N/A | N/A |
| Open Burning | 70 | 3.09 | 0.09 | 0.37 | 0.37 | N/A | 0.53 | N/A |
| Lambert Total | 9,970 | 27.89 | 26.57 | 37.79 | 6.50 | 0.0589 | 4.29 | 0.34 |
| Meter Stations: | | | | | | | | |
| Construction Equipment Engines | 4,411 | 7.61 | 13.04 | 0.91 | 0.91 | 0.0238 | 1.71 | 0.10 |
| On-Road Vehicle Travel | 150 | 1.26 | 0.13 | 2.51 | 0.62 | 0.0010 | 0.04 | 0.02 |
| Off-Road Vehicle Travel | 1,855 | 4.52 | 4.46 | 15.44 | 1.84 | 0.0155 | 0.53 | 0.11 |
| Earthmoving Fugitives | N/A | N/A | N/A | 3.05 | 0.31 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 0.44 | 0.07 | N/A | N/A | N/A |
| Open Burning | 4 | 0.19 | 0.005 | 0.02 | 0.02 | N/A | 0.03 | N/A |
| Meter Station Total | 6,420 | 13.57 | 17.64 | 22.38 | 3.76 | 0.0403 | 2.32 | 0.22 |
| Pipeline: | | | | | | | | |
| Construction Equipment Engines | 83,586 | 71.95 | 196.60 | 11.22 | 11.22 | 0.4379 | 24.76 | 1.92 |
| On-Road Vehicle Travel | 2,822 | 25.24 | 2.10 | 11.19 | 2.73 | 0.0190 | 0.75 | 0.32 |
| Off-Road Vehicle Travel | 1,464 | 6.50 | 2.77 | 18.01 | 2.04 | 0.0115 | 0.41 | 0.11 |
| Earthmoving Fugitives | N/A | N/A | N/A | 947.60 | 94.76 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 136.40 | 20.46 | N/A | N/A | N/A |
| Open Burning | 8,595 | 378.38 | 10.81 | 45.95 | 45.95 | N/A | 64.86 | N/A |
| Pipeline Total | 96,467 | 482.07 | 212.28 | 1,170.3 | 177.15 | 0.4684 | 90.78 | 2.35 |
| Pipeline in Pittsylvania, VA | 32,139 | 158.71 | 70.77 | 19.10 | 18.89 | 0.1564 | 29.91 | 0.78 |
| Pipeline in Rockingham, NC | 32,702 | 186.41 | 71.41 | 22.47 | 22.27 | 0.1558 | 34.68 | 0.78 |
| Pipeline in Alamance, NC | 31,626 | 136.95 | 70.11 | 16.46 | 16.26 | 0.1562 | 26.19 | 0.78 |
| 2020 TOTAL: | 112,857 | 523.5 | 256.5 | 1,230.5 | 187.4 | 0.6 | 97.4 | 2.9 |
| N/A indicates that the specific pollutant emissions are not expected from that source. | | | | | | | | |

| REVISED [Oct 2019] - Table 9.2-7 | | | | | | | | |
|--|-----------------------------------|-------------|-------------|------------------|-------------------|-----------------|-------------|-------------|
| Estimated Construction Emissions from the MVP Southgate Project – 2021 | | | | | | | | |
| SOURCE | 2021 CONSTRUCTION EMISSIONS (TPY) | | | | | | | |
| | CO ₂ | CO | NOx | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | HAPS |
| Lambert Compressor Station/Interconnect: | | | | | | | | |
| Construction Equipment Engines | 1,929 | 2.14 | 4.46 | 0.34 | 0.34 | 0.0101 | 0.69 | 0.04 |
| On-Road Vehicle Travel | 95 | 0.65 | 0.12 | 0.58 | 0.14 | 0.0007 | 0.03 | 0.01 |
| Off-Road Vehicle Travel | 233 | 0.84 | 0.49 | 2.48 | 0.29 | 0.0019 | 0.07 | 0.02 |
| Earthmoving Fugitives | N/A | N/A | N/A | 6.30 | 0.63 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 0.91 | 0.14 | N/A | N/A | N/A |
| Open Burning | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | 0.00 | N/A |
| Lambert Total | 2,257 | 3.62 | 5.07 | 10.60 | 1.53 | 0.0126 | 0.78 | 0.07 |
| Meter Stations: | | | | | | | | |
| Construction Equipment Engines | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 |
| On-Road Vehicle Travel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 |
| Off-Road Vehicle Travel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 |
| Earthmoving Fugitives | N/A | N/A | N/A | 0.00 | 0.00 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 0.00 | 0.00 | N/A | N/A | N/A |
| Open Burning | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | 0.00 | N/A |
| Meter Station Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 |
| Pipeline: | | | | | | | | |
| Construction Equipment Engines | 4,417 | 2.21 | 5.93 | 0.32 | 0.32 | 0.0221 | 1.14 | 0.10 |
| On-Road Vehicle Travel | 292 | 1.75 | 0.43 | 0.90 | 0.23 | 0.0022 | 0.08 | 0.03 |
| Off-Road Vehicle Travel | 131 | 0.60 | 0.24 | 1.64 | 0.19 | 0.0010 | 0.04 | 0.01 |
| Earthmoving Fugitives | N/A | N/A | N/A | 552.76 | 55.28 | N/A | N/A | N/A |
| Wind Erosion | N/A | N/A | N/A | 79.56 | 11.93 | N/A | N/A | N/A |
| Open Burning | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | 0.00 | N/A |
| Pipeline Total | 4,840 | 4.56 | 6.61 | 635.19 | 67.94 | 0.0253 | 1.26 | 0.14 |
| Pipeline in Pittsylvania, VA | 1,629 | 1.53 | 2.25 | 240.77 | 25.74 | 0.0086 | 0.42 | 0.05 |
| Pipeline in Rockingham, NC | 1,594 | 1.51 | 2.15 | 214.30 | 22.92 | 0.0083 | 0.41 | 0.04 |
| Pipeline in Alamance, NC | 1,617 | 1.52 | 2.21 | 180.12 | 19.29 | 0.0085 | 0.42 | 0.05 |
| 2021 TOTAL: | 7,097 | 8.2 | 11.7 | 645.8 | 69.5 | 0.04 | 2.0 | 0.2 |
| N/A indicates that the specific pollutant emissions are not expected from that source. | | | | | | | | |

| REVISED [Oct 2019] - Table 33-1 | | | |
|--|---|--|----------------------------------|
| Operational Fugitive Leaks and Blowdown Event Emissions from the MVP Southgate Project (Excluding the Lambert Compressor Station) | | | |
| Pollutant | Fugitive Leaks (Tons per Year) | Blowdown Events (Tons per Year) | Total (Tons per Year) |
| VOC | 0.2 | 4.2 | 4.4 |
| CO2e | 156 | 4,229 | 4,384 |
| HAP (Hexane) | 0.01 | 0.20 | 0.21 |

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| NO CHANGE - Table 9.3-15 | | | | | | | | |
|---|-----|---|-----------|--|--|------|---|--|
| Predicted Sound Levels – Compressor and Meter Station | | | | | | | | |
| Compressor/ Meter Station | NSA | Distance from Compressor/ Meter Station to NSA (feet) | Direction | Measured Existing Ambient (L _{dn} dBA) | Estimated Contribution of Station Equipment (L _{eq} dBA / L _{dn} dBA) | | Combined, All Sources Including Ambient (L _{dn} dBA) | Increase Above Existing Condition (dB) |
| | | | | | | | | |
| Lambert Compressor Station | 1 | 3,480 | WSW | 46.8 | 41.6 | 48.0 | 50.5 | 3.7 |
| | 2 | 3,500 | SW | | 35.2 | 41.6 | 47.9 | 1.1 |
| | 3 | 3,290 | SE | 62.8 | 34.3 | 40.7 | 62.8 | 0.0 |
| | 4 | 3,800 | N | 44.8 | 33.0 | 39.4 | 45.9 | 1.1 |
| LN 3600 Interconnect | 1 | 1,700 | NNW | 49.7 | 21.3 | 27.7 | 49.7 | 0.0 |
| T-15 Dan River Interconnect | 1 | 750 | S | 65.0 | 40.4 | 46.8 | 65.1 | 0.1 |
| T-21 Haw River Interconnect | 1 | 550 | N | 65.0 | 35.4 | 41.8 | 65.0 | 0.0 |

| NO CHANGE - Table 9.3-8 | | | | | | | | | | |
|--|-----|---------------------------------------|-------|-----------------|--|-----------------|--------------------------------|-----------------|--|-----------------|
| Predicted Temporary Sound Levels Due to Construction, Single 12-Hour Daytime Shift | | | | | | | | | | |
| Compressor / Meter Station | NSA | Existing Ambient Sound Levels, dBA a/ | | | Predicted Sound Level –Single Daytime Shift, dBA | | Construction Plus Ambient, dBA | | Temporary Increase in Sound Level, dBA | |
| | | Day | Night | L _{dn} | Day | L _{dn} | Day | L _{dn} | Day | L _{dn} |
| Lambert Compressor Station / Interconnect | 1 | 36.8 | 40.8 | 46.8 | 48.7 | 46.6 | 49.0 | 49.7 | 12.2 | 2.9 |
| | 2 | | | | 46.5 | 44.4 | 46.9 | 48.8 | 10.2 | 2.0 |
| | 3 | 60.4 | 55.1 | 62.8 | 43.8 | 41.7 | 60.5 | 62.8 | 0.1 | 0.0 |
| | 4 | 38.6 | 38.4 | 44.8 | 42.7 | 40.7 | 44.1 | 46.3 | 5.5 | 1.4 |
| LN 3600 Interconnect | 1 | 47.2 | 42.1 | 49.7 | 51.2 | 49.1 | 52.7 | 52.4 | 5.4 | 2.7 |
| T-15 Dan River Interconnect | 1 | 63.1 | 57.1 | 65.0 | 64.7 | 62.7 | 67.0 | 67.0 | 3.9 | 2.0 |
| T-21 Haw River Interconnect | 1 | 62.8 | 57.2 | 65.0 | 67.1 | 65.1 | 68.5 | 68.1 | 5.6 | 3.1 |

a/ To be conservative, ambient levels have been processed to remove insect noise.

| NO CHANGE - Table 9.3-9 | | | | | | | | | | |
|---|-----|---------------------------------------|-------|-----------------|--|-----------------|--------------------------------|-----------------|--|-----------------|
| Predicted Temporary Sound Levels Due to Construction, 24-Hour Construction Activities | | | | | | | | | | |
| Compressor / Meter Station | NSA | Existing Ambient Sound Levels, dBA a/ | | | Predicted Sound Level –Single Daytime Shift, dBA | | Construction Plus Ambient, dBA | | Temporary Increase in Sound Level, dBA | |
| | | Day | Night | L _{dn} | Night | L _{dn} | Night | L _{dn} | Night | L _{dn} |
| Lambert Compressor Station / Interconnect | 1 | 36.8 | 40.8 | 46.8 | 45.9 | 53.1 | 47.1 | 54.0 | 6.3 | 7.2 |
| | 2 | | | | 43.7 | 50.9 | 45.5 | 52.3 | 4.7 | 5.5 |
| | 3 | 60.4 | 55.1 | 62.8 | 41.0 | 48.2 | 55.3 | 63.0 | 0.2 | 0.1 |
| | 4 | 38.6 | 38.4 | 44.8 | 40.0 | 47.1 | 42.3 | 49.1 | 3.9 | 4.3 |
| LN 3600 Interconnect | 1 | 47.2 | 42.1 | 49.7 | 48.5 | 55.4 | 49.4 | 56.4 | 7.3 | 6.7 |
| T-15 Dan River Interconnect | 1 | 63.1 | 57.1 | 65.0 | 62.0 | 69.2 | 63.2 | 70.6 | 6.2 | 5.6 |
| T-21 Haw River Interconnect | 1 | 62.8 | 57.2 | 65.0 | 64.4 | 71.5 | 65.2 | 72.4 | 8.0 | 7.4 |

a/: To be conservative, ambient levels have been processed to remove insect noise.

| REVISED [Oct 2019] - Table 9.3-11 | | | | | | |
|---|--|------------------|------------------------|--------------|---|---|
| Predicted Temporary Sound Levels Due to HDD / Railroad Crossing | | | | | | |
| HDD and Railroad Crossing | Distance and Direction of the Closest NSA to Site Center | Existing Ambient | Calculated Sound Level | | Existing Ambient L_{dn} Plus L_{dn} of Operations | Temporary Change in the Ambient Sound Level |
| | | L_{dn} dBA | L_{eq} dBA | L_{dn} dBA | L_{dn} dBA | L_{dn} dBA |
| Dan River HDD | 1400 feet N | 42.8 | 46.5 | 52.9 | 53.3 | 10.5 |
| Stony Creek Reservoir HDD | 300 feet NW | 39.7 | 54.2 | 60.6 | 60.6 | 20.9 |
| Railroad Crossing 1 | 3550 feet E | 58.9 | 38.7 | 45.1 | 59.0 | 0.2 |
| Railroad Crossing 2 | 3000 feet S | 41.1 | 31.9 | 38.3 | 42.9 | 1.8 |
| Railroad Crossing 3 | 250 feet NW | 45.5 | 63.1 | 69.5 | 69.5 | 24.0 |
| Railroad Crossing 4 | 500 feet N | 48.9 | 58.8 | 65.2 | 65.3 | 16.4 |

| REVISED [Oct 2019] - Table 9.3-12 | | | | | |
|--|--|------------------|---------------------------------------|---|---|
| Predicted Temporary Sound Levels Due to HDD / Railroad Crossings with Noise Mitigation | | | | | |
| HDD Crossing (Entry or Exit Site) | Distance and Direction of the Closest NSA to Site Center | Existing Ambient | Calculated L_{dn} of the Operations | Existing Ambient L_{dn} Plus L_{dn} of Operations | Temporary Change in the Ambient Sound Level |
| | | L_{dn} dBA | L_{dn} dBA | L_{dn} dBA | L_{dn} dBA |
| Stony Creek Reservoir HDD | 300 feet NW | 39.7 | 48.6 | 49.2 | 9.5 |
| Railroad Crossing 3 | 250 feet NW | 45.5 | 57.5 | 57.8 | 12.3 |
| Railroad Crossing 4 | 500 feet N | 48.9 | 53.2 | 54.6 | 5.7 |

Table 132-1, below, summarizes the predicted sound levels at the NSAs during the ESD event.

| NO CHANGE - Table 132-1 | | | | |
|-------------------------|---|-------------------------------|---|---|
| NSA | Distance from Compressor Station to NSA, feet | Direction from Station to NSA | Highest Expected Sound Level Due to an ESD Event, L_{max} dBA | 10-minute Average Sound Level of an ESD Event, L_{eq} , dBA |
| 1 | 3,480 | WSW | 63.9 | 58.9 |
| 2 | 3,500 | SW | 63.4 | 58.4 |
| 3 | 3,290 | SE | 56.1 | 51.1 |
| 4 | 3,800 | N | 55.5 | 50.5 |

| NO CHANGE - Table 36-1 | | | | | | |
|--|---|-------------------------------|--------------------------------------|--|--|--|
| Predicted Sound Level Impact of an ESD Event on the 10-minute L_{eq} | | | | | | |
| NSA | Distance from Compressor Station to NSA, feet | Direction from Station to NSA | Measured Night Average, L_{eq} dBA | 10-minute L_{eq} of an ESD Event, L_{eq} , dBA | 10-minute L_{eq} during an ESD Event (Ambient + Event Level), L_{eq} dBA | Potential Increase in 10-minute L_{eq} |
| 1 | 3,480 | WSW | 40.8 | 58.9 | 59.0 | 18.2 |
| 2 | 3,500 | SW | | 58.4 | 58.5 | 17.7 |
| 3 | 3,290 | SE | 55.1 | 51.1 | 56.6 | 1.5 |
| 4 | 3,800 | N | 38.4 | 50.5 | 50.8 | 12.4 |

| NO CHANGE - Table 36-2 | | | | | | | |
|--|---|-------------------------------|--|--|---|--|--|
| Predicted Sound Level Impact of an ESD Event on the 24-hour L_{dn} | | | | | | | |
| NSA | Distance from Compressor Station to NSA, feet | Direction from Station to NSA | Measured 24-hour Day Night Sound Level, L_{dn} dBA | 10-minute L_{eq} of an ESD Event, L_{eq} , dBA | L_{dn} for Single ESD Event, L_{dn} dBA | L_{dn} for a day with an ESD Event (Ambient + Event Level), L_{dn} dBA | Increase in the L_{dn} due to a Single ESD Event, dBA L_{dn} |
| 1 | 3,480 | WSW | 50.7 | 58.9 | 47.3 | 52.3 | 1.6 |
| 2 | 3,500 | SW | | 58.4 | 46.8 | 52.2 | 1.5 |
| 3 | 3,290 | SE | 64 | 51.1 | 39.5 | 64.0 | 0.0 |
| 4 | 3,800 | N | 56.4 | 50.5 | 38.9 | 56.5 | 0.1 |



MVP Southgate Project

Docket No. CP19-14-000

Resource Report 10 Table Updates

October 2019

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| REVISED Table 10.5-1 | | | |
|--|--|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 1 | | | |
| Feature | Current Route (September, 2019) | Route Alternative 1 | Difference |
| General | | | |
| Total length (miles) <u>a/</u> | 30.1 | 30.1 | 0 |
| Length adjacent to existing ROW (miles) | 15.2 | 4.6 | -10.6 |
| Land affected during construction (acres) <u>a/</u> | 365.3 | 365.2 | -0.1 |
| Land affected during operation (acres) <u>a/</u> | 182.7 | 182.6 | -0.1 |
| Land Use | | | |
| Populated areas within ½ mile (number) | 0 | 0 | 0 |
| National Forest System lands crossed (miles) | 0 | 0 | 0 |
| National Forest Wilderness crossed (miles) | 0 | 0 | 0 |
| State lands crossed (forests, parks, wildlife management areas) (miles) | 0 | 0 | 0 |
| Scenic Trail crossings (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Designated Natural and Scenic Rivers, Nationwide Rivers Inventory, significant fisheries, ponds/lakes (number) | 1 | 0 | -1 |
| NRHP designated or eligible historic districts crossed (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 1 | 0 | -1 |
| Landowner parcels crossed (number) | 159 | 159 | 2 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 1 / 4 | 0 / 11 | -1 / +7 |
| Environmental Justice Areas (miles) | 6.8 | 4.1 | -2.7 |
| Resources | | | |
| Agricultural Land crossed (miles) <u>c/</u> | 10.5 | 9.5 | -1 |
| Open Land crossed (miles) | 8.3 | 6.9 | -1.4 |
| Residential Land (miles) | 0.1 | 0.4 | +0.3 |
| Commercial/Industrial Land (miles) | 0.5 | 0.3 | -0.2 |
| Forest Areas (miles) | 14.7 | 17.4 | +2.7 |
| Forested Land affected during construction (acres) | 179.1 | 209.3 | +30.2 |
| Forested Land affected during operation (acres) | 89.2 | 104.8 | +15.6 |
| Total Wetlands (NWI) crossed (feet) | 1289 | 726 | -563 |
| NWI Wetlands affected by construction (acres) <u>b/</u> | 2.2 | 1.4 | -0.8 |
| PEM NWI wetlands affected by construction (acres) <u>b/</u> | 0.1 | 0 | -0.1 |
| PEM NWI wetlands affected by operation (acres) <u>a/</u> | 0.1 | 0 | -0.1 |
| PSS NWI wetlands affected by construction (acres) <u>b/</u> | 0.7 | 0.6 | -0.1 |
| PSS NWI wetlands affected by operation (acres) <u>a/</u> | 0.4 | 0.4 | 0 |
| PFO NWI wetlands crossed (feet) | 813 | 391 | -422 |
| PFO NWI wetlands affected by construction (acres) <u>b/</u> | 1.4 | 0.8 | -0.6 |
| PFO NWI wetlands affected by operation (acres) <u>a/</u> | 0.9 | 0.5 | -0.4 |
| Perennial waterbody crossings (number) | 16 | 14 | -2 |
| Crossings of major waterbodies (>100 feet) (number) | 0 | 0 | 0 |

| REVISED Table 10.5-1 | | | |
|---|--|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 1 | | | |
| Feature | Current Route (September, 2019) | Route Alternative 1 | Difference |
| Presence of critical habitat or federally endangered or threatened species (Yes/No). Number of species. | No/0 | No/0 | 0 |
| Shallow bedrock crossed (miles) | 4.4 | 3.8 | -0.6 |
| Karst area crossed (miles) | 0 | 0 | 0 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. Includes a 5.4-mile long lateral from Alternative 1 to an interconnect with PSNC Energy, east of Eden, North Carolina.</p> <p><u>b/</u> Assuming 75-foot-wide construction ROW.</p> <p><u>c/</u> Includes pasture/hay and cultivated crops.</p> <p>Populated Areas = census designated places, consolidated cities, and incorporated places. ROW = right-of-way. NWI = National Wetland Inventory. NRHP = National Register of Historic Places. PEM = Palustrine Emergent Wetland; PSS = Palustrine Scrub-Shrub Wetland; PFO = Palustrine Forested Wetland.</p> <p><u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page VA Parcel Boundaries and Standard Fields - https://www.arcgis.com/home/item.html?id=f1dcca1f42e40cbba791feae2e23690 NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ USDA - https://data.fs.usda.gov/geodata/edw/datasets.php NRHP - National Register of Historic Places - https://www.nps.gov/nr/research/data_downloads.htm ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.5-2 | | | |
|--|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 2 | | | |
| Feature | Current Route (September 2019) | Route Alternative 2 | Difference |
| General | | | |
| Total length (miles) <u>a/</u> | 43.3 | 43.3 | 0 |
| Length adjacent to existing ROW (miles) | 19.1 | 7.1 | -12 |
| Land affected during construction (acres) <u>a/</u> | 525.2 | 525.4 | +0.2 |
| Land affected during operation (acres) <u>a/</u> | 262.7 | 262.6 | -0.1 |
| Land Use | | | |
| Populated areas within ½ mile (number) | 0 | 0 | 0 |
| National Forest System lands crossed (miles) | 0 | 0 | 0 |
| National Forest Wilderness crossed (miles) | 0 | 0 | 0 |
| State lands crossed (forests, parks, wildlife management areas) (miles) | 0 | 0 | 0 |
| Scenic Trail crossings (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Designated Natural and Scenic Rivers, Nationwide Rivers Inventory, significant fisheries, ponds/lakes (number) | 2 | 0 | -2 |
| NRHP designated or eligible historic districts crossed (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 1 | 0 | -1 |
| Landowner parcels crossed (number) | 233 | 200 | -33 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 1 / 6 | 2 / 11 | +1 / +5 |
| Environmental Justice Areas (miles) | 6.8 | 3.4 | -3.4 |
| Resources | | | |
| Agricultural Land crossed (miles) <u>c/</u> | 17.2 | 13.7 | +3.5 |
| Open Land crossed (miles) | 13.5 | 10.6 | -2.9 |
| Residential Land (miles) | 0.2 | 0.3 | +0.1 |
| Commercial/Industrial Land (miles) | 0.6 | 0.3 | -0.3 |
| Forest Areas (miles) | 20.2 | 22.6 | +2.4 |
| Forested Land affected during construction (acres) | 246 | 274.7 | +28.7 |
| Forested Land affected during operation (acres) | 122.7 | 137.3 | +14.6 |
| Total Wetlands (NWI) crossed (feet) | 2,007 | 3,047 | +1,040 |
| NWI Wetlands affected by construction (acres) <u>b/</u> | 2.9 | 5.4 | 2.5 |
| PEM NWI wetlands affected by construction (acres) <u>b/</u> | 0.8 | 0 | -0.8 |
| PEM NWI wetlands affected by operation (acres) <u>a/</u> | 0.6 | 0 | -0.6 |
| PSS NWI wetlands affected by construction (acres) <u>b/</u> | 0.7 | 0.5 | -0.2 |
| PSS NWI wetlands affected by operation (acres) <u>a/</u> | 0.4 | 0.3 | -0.1 |
| PFO NWI wetlands crossed (feet) | 833 | 2,763 | +1,930 |
| PFO NWI wetlands affected by construction (acres) <u>b/</u> | 1.4 | 4.9 | +3.5 |
| PFO NWI wetlands affected by operation (acres) <u>a/</u> | 0.9 | 3.3 | +2.4 |
| Perennial waterbody crossings (number) | 18 | 19 | +1 |
| Crossings of major waterbodies (>100 feet) (number) | 1 | 0 | -1 |

| REVISED Table 10.5-2 | | | |
|---|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 2 | | | |
| Feature | Current Route (September 2019) | Route Alternative 2 | Difference |
| Presence of critical habitat or federally endangered or threatened species (Yes/No). Number of species. | No / 0 | No / 0 | 0 |
| Shallow bedrock crossed (miles) | 4.4 | 4.3 | -0.1 |
| Karst area crossed (miles) | 0 | 0 | 0 |
| <p>a/ Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. Includes an 8.8-mile long lateral from Alternative 2 to an interconnect with PSNC Energy, east of Eden, North Carolina.</p> <p>b/ Assuming 75-foot-wide construction ROW.</p> <p>c/ Includes pasture/hay and cultivated crops.</p> <p>Populated Areas = census designated places, consolidated cities, and incorporated places.</p> <p>ROW = right-of-way. NWI = National Wetland Inventory. NRHP = National Register of Historic Places.</p> <p>PEM = Palustrine Emergent Wetland; PSS = Palustrine Scrub-Shrub Wetland; PFO = Palustrine Forested Wetland.</p> <p><u>Information Sources:</u></p> <p>GIS – Analysis based on Geodatabase layers and shapefiles.</p> <p>NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page</p> <p>VA Parcel Boundaries and Standard Fields - https://www.arcgis.com/home/item.html?id=f1dcca1f42e40cbba791feae2e23690</p> <p>NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus</p> <p>NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/</p> <p>USGS – U.S. Geological Survey - http://www.usgs.gov/</p> <p>NHD – National Hydrography Dataset - http://nhd.usgs.gov/</p> <p>USDA - https://data.fs.usda.gov/geodata/edw/datasets.php</p> <p>NRHP - National Register of Historic Places - https://www.nps.gov/nr/research/data_downloads.htm</p> <p>ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.5-3 | | | |
|--|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 3 | | | |
| Feature | Current Route (September 2019) | Route Alternative 3 | Difference |
| General | | | |
| Total length (miles) <u>a/</u> | 61.1 | 63.4 | +2.3 |
| Length adjacent to existing ROW (miles) | 31 | 25.5 | -5.5 |
| Land affected during construction (acres) <u>a/</u> | 740.4 | 768.7 | +28.3 |
| Land affected during operation (acres) <u>a/</u> | 370.3 | 384.3 | +14 |
| Land Use | | | |
| Populated areas within ½ mile (number) | 0 | 1 | +1 |
| National Forest System lands crossed (miles) | 0 | 0 | 0 |
| National Forest Wilderness crossed (miles) | 0 | 0 | 0 |
| State lands crossed (forests, parks, wildlife management areas) (miles) | 0 | 0 | 0 |
| Scenic Trail crossings (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Designated Natural and Scenic Rivers, Nationwide Rivers Inventory, significant fisheries, ponds/lakes (number) | 2 | 0 | -2 |
| NRHP designated or eligible historic districts crossed (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 2 | 0 | -2 |
| Landowner parcels crossed (number) | 323 | 376 | +53 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 4 / 12 | 2 / 23 | -2 / 11 |
| Environmental Justice Areas (miles) | 6.8 | 17.2 | +10.4 |
| Resources | | | |
| Agricultural Land crossed (miles) <i>c/</i> | 25.0 | 15.1 | -9.9 |
| Open Land crossed (miles) | 20.2 | 12.6 | -7.6 |
| Residential Land (miles) | 0.4 | 1.0 | +0.6 |
| Commercial/Industrial Land (miles) | 0.7 | 0.6 | -0.1 |
| Forest Areas (miles) | 27.4 | 38.4 | +11 |
| Forested Land affected during construction (acres) | 332.7 | 464.3 | +131.6 |
| Forested Land affected during operation (acres) | 166 | 232.6 | +66.6 |
| Total Wetlands (NWI) crossed (feet) | 2,231 | 3,159 | +928 |
| NWI Wetlands affected by construction (acres) <i>b/</i> | 3.2 | 5.5 | 2.3 |
| PEM NWI wetlands affected by construction (acres) <i>b/</i> | 1.1 | 0.6 | -0.5 |
| PEM NWI wetlands affected by operation (acres) <u>a/</u> | 0.8 | 0.4 | -0.4 |
| PSS NWI wetlands affected by construction (acres) <i>b/</i> | 0.7 | 2.1 | +1.4 |
| Total PSS NWI wetlands affected by operation (acres) <u>a/</u> | 0.5 | 1.2 | +0.7 |
| PFO NWI wetlands crossed (feet) | 833 | 1,614 | +781 |
| PFO NWI wetlands affected by construction (acres) <i>b/</i> | 1.4 | 2.8 | +1.4 |
| PFO NWI wetlands affected by operation (acres) <u>a/</u> | 0.9 | 1.9 | +1.0 |
| Perennial waterbody crossings (number) | 28 | 31 | +3 |
| Crossings of major waterbodies (>100 feet) (number) | 1 | 0 | -1 |

| REVISED Table 10.5-3 | | | |
|--|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Route Alternative 3 | | | |
| Feature | Current Route (September 2019) | Route Alternative 3 | Difference |
| Presence of critical habitat or federally endangered or threatened species (Yes/No). Number of species. | No / 0 | No / 0 | 0 |
| Shallow bedrock crossed (miles) | 5.1 | 10.5 | +5.4 |
| Karst area crossed (miles) | 1.9 | 0.6 | -1.3 |
| <p>a/ Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. Includes a 16.6-mile long lateral from Alternative 3 to an interconnect with PSNC Energy, east of Eden, North Carolina.</p> <p>b/ Assuming 75-foot-wide construction ROW.</p> <p>c/ Includes pasture/hay and cultivated crops.</p> <p>Populated Areas = census designated places, consolidated cities, and incorporated places.</p> <p>ROW = right-of-way. NWI = National Wetland Inventory. NRHP = National Register of Historic Places</p> <p>PEM = Palustrine Emergent Wetland; PSS = Palustrine Scrub-Shrub Wetland; PFO = Palustrine Forested Wetland.</p> <p><u>Information Sources:</u></p> <p>GIS – Analysis based on Geodatabase layers and shapefiles.</p> <p>NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page</p> <p>VA Parcel Boundaries and Standard Fields - https://www.arcgis.com/home/item.html?id=f1dcca1f42e40cbbba791feae2e23690</p> <p>NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus</p> <p>NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/</p> <p>USGS – U.S. Geological Survey - http://www.usgs.gov/</p> <p>NHD – National Hydrography Dataset - http://nhd.usgs.gov/</p> <p>USDA - https://data.fs.usda.gov/geodata/edw/datasets.php</p> <p>NRHP - National Register of Historic Places - https://www.nps.gov/nr/research/data_downloads.htm</p> <p>ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.5-4 | | | |
|---|---|---------------------------|-------------------|
| Comparison of the Current Route (September 2019) and FERC Alternative 1 | | | |
| Feature | Current Route (September 2019) | FERC Alternative 1 | Difference |
| Total length (miles) | 5.6 | 8.7 | -0.8 |
| Construction right-of-way (acres) <u>a/</u> | 114.7 | 105.4 | -9.3 |
| Permanent right-of-way (acres) <u>a/</u> | 57.3 | 52.7 | -4.6 |
| Total number of parcels crossed | 87 | 55 | -32 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 5 / 5 | 1 / 1 | -4 / -4 |
| Environmental Justice Areas (number) | 3.4 | 0.5 | -2.9 |
| Residential Land (miles) | 0.1 | 0.1 | 0 |
| Commercial/Industrial Land (miles) | 0.2 | 0.1 | -0.1 |
| Unlisted/Potential Eligible Historic Properties (number) | 1 | 0 | -1 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 1 | 1 | 0 |
| Number of waterbodies crossed | 19 | 24 | +5 |
| Number of NWI wetlands crossed | 1 | 9 | +8 |
| Total NWI wetland crossing length (feet) | 25 | 3,990 | +3,965 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.2 | 6.4 | +6.2 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 30.8 | 18 | -12.8 |
| Forest Areas (miles) | 5.7 | 5.3 | -0.4 |
| Forested Land affected during construction (acres) | 68.3 | 65 | -3.3 |
| Forested Land affected during operation (acres) | 34.4 | 32.4 | -2 |
| Length adjacent to existing ROW (miles) | 0 | 5.6 | +5.6 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.5-5 | | | |
|---|---|---------------------------|-------------------|
| Comparison of the Current Route (September 2019) and FERC Alternative 2 | | | |
| Feature | Current Route (September 2019) | FERC Alternative 2 | Difference |
| Total length (miles) | 3.9 | 4.0 | +0.1 |
| Construction right-of-way (acres) <u>a/</u> | 47.9 | 48.5 | +0.6 |
| Permanent right-of-way (acres) <u>a/</u> | 23.9 | 24.2 | +0.3 |
| Total number of parcels crossed | 43 | 32 | -11 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 5 / 5 | 0 / 0 | -5 / -5 |
| Environmental Justice Areas (number) | 3.4 | 0.5 | -2.9 |
| Residential Land (miles) | 0.1 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0.1 | 0.1 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 1 | 0 | -1 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 1 | 1 | 0 |
| Number of waterbodies crossed | 8 | 13 | +5 |
| Number of NWI wetlands crossed | 0 | 9 | +9 |
| Total NWI wetland crossing length (feet) | 0 | 4,163 | +4,163 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.1 | 6.4 | +6.3 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 6 | 5.8 | -0.2 |
| Forest Areas (miles) | 2.7 | 2.1 | -0.6 |
| Forested Land affected during construction (acres) | 32.2 | 26.2 | -6 |
| Forested Land affected during operation (acres) | 16.2 | 13 | -3.2 |
| Length adjacent to existing ROW (miles) | 0 | 3.5 | +3.5 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

Table 10.5-6**Comparison of the Current Route (September 2019) and FERC Alternative 3**

In its *November 2018 Resource Report 10 – Alternatives*, the Project evaluated FERC Alternative 3 between MP 65.8 and MP 67.5 in Alamance County, North Carolina, at the request of FERC. Approximately 1.7 miles of FERC Alternative 3 is commensurate with the Mystic Valley Reroute. In its March 28, 2019 Supplemental Filing, the Project adopted and incorporated portions of FERC Alternative 3 and the Mystic Valley Reroute alignments into its preferred pipeline route. Therefore, FERC Alternative 3 has been eliminated from the analysis as it is no longer applicable.

REVISED Table 10.5-7

Comparison of the Current Route (September 2019) and FERC Alternative 4

| Feature | Current Route (September 2019) | FERC Alternative 4 | Difference |
|--|---|---------------------------|-------------------|
| Total length (miles) | 5.3 | 9.4 | +4.1 |
| Construction right-of-way (acres) <u>a/</u> | 64.2 | 114.1 | +49.9 |
| Permanent right-of-way (acres) <u>a/</u> | 32.1 | 57.0 | +24.9 |
| Total number of parcels crossed | 55 | 56 | 1 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 3 / 3 | 0 / 0 | -3 / -3 |
| Environmental Justice Areas (number) | 1.3 | 4.3 | +3.0 |
| Residential Land (miles) | 0.1 | 0.1 | 0 |
| Commercial/Industrial Land (miles) | 0.1 | 0.3 | +0.2 |
| Unlisted/Potential Eligible Historic Properties (number) | 1 | 0 | -1 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 1 | 1 | 0 |
| Number of waterbodies crossed | 13 | 14 | +1 |
| Number of NWI wetlands crossed | 1 | 5 | +4 |
| Total NWI wetland crossing length (feet) | 25 | 321 | +296 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.2 | 0.4 | +0.2 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 14.9 | 37.7 | +22.8 |
| Forest Areas (miles) | 3.4 | 5.3 | +1.9 |
| Forested Land affected during construction (acres) | 40.2 | 64.6 | +24.4 |
| Forested Land affected during operation (acres) | 20.3 | 32.2 | +11.9 |
| Length adjacent to existing ROW (miles) | 0 | 1.9 | +1.9 |

a/ Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW.

b/ Assuming 75-foot-wide construction ROW.

c/ Includes pasture/hay and cultivated crops.

ROW = right-of-way. NWI = National Wetland Inventory

Information Sources:

GIS – Analysis based on Geodatabase layers and shapefiles.

NC Parcel Boundaries and Standard Fields - <http://data.nconemap.gov/geoportal/catalog/search/resource/details.page>

NLCD – 2016 National Land Cover Dataset - <https://www.mrlc.gov/data/nlcd-2016-land-cover-conus>

NWI – National Wetlands Inventory - <http://www.fws.gov/wetlands/>

USGS – U.S. Geological Survey - <http://www.usgs.gov/>

NHD – National Hydrography Dataset - <http://nhd.usgs.gov/>

ESRI - GIS Mapping - <http://www.esri.com/>

| REVISED Table 10.5-8 | | | |
|---|---|---------------------------|-------------------|
| Comparison of the Current Route (September 2019) and FERC Alternative 5 | | | |
| Feature | Current Route (September 2019) | FERC Alternative 5 | Difference |
| Total length (miles) | 1.4 | 2.2 | +0.8 |
| Construction right-of-way (acres) <u>a/</u> | 17.4 | 26.4 | +9 |
| Permanent right-of-way (acres) <u>a/</u> | 8.7 | 13.1 | +4.4 |
| Total number of parcels crossed | 16 | 19 | +3 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 2 / 2 | 0 / 0 | -2/ -2 |
| Environmental Justice Areas (number) | 1.1 | 0.9 | -0.2 |
| Residential Land (miles) | 0.1 | 0 | -0.1 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 3 | 3 | 0 |
| Number of NWI wetlands crossed | 0 | 0 | 0 |
| Total NWI wetland crossing length (feet) | 0 | 0 | 0 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0 | 0 | 0 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 2.1 | 12 | +9.9 |
| Forest Areas (miles) | 0.9 | 1 | +0.1 |
| Forested Land affected during construction (acres) | 11.3 | 11.9 | +0.6 |
| Forested Land affected during operation (acres) | 5.7 | 5.9 | +0.2 |
| Length adjacent to existing ROW (miles) | 0 | 0 | 0 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.5-9 | | | |
|---|---|---------------------------|-------------------|
| Comparison of the Current Route (September 2019) and FERC Alternative 6 | | | |
| Feature | Current Route (September 2019) | FERC Alternative 6 | Difference |
| Total length (miles) | 3.8 | 4.4 | +0.6 |
| Construction right-of-way (acres) <u>a/</u> | 46.1 | 53.3 | +7.2 |
| Permanent right-of-way (acres) <u>a/</u> | 23.0 | 26.6 | +3.6 |
| Total number of parcels crossed | 21 | 28 | +7 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0 / 0 | 1 / 1 | +1 / +1 |
| Environmental Justice Areas (number) | 0 | 0 | 0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 5 | 10 | +5 |
| Number of NWI wetlands crossed | 1 | 2 | +1 |
| Total NWI wetland crossing length (feet) | 20 | 131 | +111 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.1 | 0.3 | +0.2 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 23.2 | 17.6 | -5.6 |
| Forest Areas (miles) | 1.6 | 2.9 | +1.3 |
| Forested Land affected during construction (acres) | 19.9 | 34.3 | +14.4 |
| Forested Land affected during operation (acres) | 9.9 | 17.4 | +7.5 |
| Length adjacent to existing ROW (miles) | 0.3 | 2.5 | +2.2 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

Table 10.5-10**Comparison of the Original Route and Mystic Valley Reroute (Current Route - September 2019)**

In its *November 2018 Resource Report 10 – Alternatives*, the Project evaluated the Mystic Valley Reroute (Preferred Route) Between MP 64.0 and MP 67.5 in Alamance County, North Carolina, to avoid a U.S. Army Corps of Engineers Cripple Creek Mitigation Bank and address landowner concerns along its original route. While the Mystic Valley Reroute resulted in similar environmental impacts as the original route, the Project determined that the Mystic Valley Reroute warranted adoption and incorporation into its preferred pipeline route because it avoided a U.S. Army Corps of Engineers Cripple Creek Mitigation Bank and eliminated landowner concerns along its original route. Therefore, the Mystic Valley Reroute has been eliminated from the analysis as it is no longer applicable.

| REVISED Table 10.6-1 | | | |
|---|---|--|-------------------|
| Comparison of the Current Route (September 2019) and Robert Pollok-Hill View Farms Variation | | | |
| Feature | Current Route (September 2019) | Robert Pollok-Hill View Farms Variation | Difference |
| Total length (miles) | 1.0 | 1.0 | 0 |
| Construction right-of-way (acres) <u>a/</u> | 12.2 | 12.1 | -0.1 |
| Total length within Robert Pollok-Hill View Farms Property (miles) | 0.5 | 0.3 | -0.2 |
| Construction right-of-way within Robert Pollok-Hill View Farms Property (acres) <u>a/</u> | 5.4 | 3.7 | -1.7 |
| Permanent right-of-way (acres) <u>a/</u> | 6.0 | 6.0 | 0 |
| Total number of parcels crossed | 5 | 6 | -1 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0/0 | 0/0 | 0/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 0 | 0 | 0 |
| Number of NWI wetlands crossed | 0 | 0 | 0 |
| Total NWI wetland crossing length (feet) | 0 | 0 | 0 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0 | 0 | 0 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 9.1 | 9.5 | +0.4 |
| Forest Areas (miles) | 0.2 | 0.2 | 0 |
| Forested Land affected during construction (acres) | 2.8 | 2.3 | -0.5 |
| Forested Land affected during operation (acres) | 1.4 | 1.2 | -0.2 |
| Length adjacent to existing ROW (miles) | 0 | 1 | +1 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 10.6-2 | | | |
|--|---|---|-------------------|
| Comparison of the Current Route (September 2019) and MP 40.0 to MP 41.4 Variation | | | |
| Feature | Current Route (September 2019) | MP 40.0 to MP 41.4 Variation | Difference |
| Total length (miles) | 1.5 | 1.6 | +0.1 |
| Construction right-of-way (acres) <u>a/</u> | 18.1 | 19.7 | +1.6 |
| Permanent right-of-way (acres) <u>a/</u> | 9 | 9.8 | +0.8 |
| Total number of parcels crossed | 10 | 8 | -2 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 1/1 | 0/0 | -1/-1 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 3 | 3 | 0 |
| Number of NWI wetlands crossed | 1 | 1 | 0 |
| Total NWI wetland crossing length (feet) | 243 | 303 | +60 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.4 | 0.5 | +0.1 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 1.6 | 3.1 | +1.5 |
| Forest Areas (miles) | 0.9 | 1.1 | +0.2 |
| Forested Land affected during construction (acres) | 11.3 | 12.9 | +1.6 |
| Forested Land affected during operation (acres) | 5.6 | 6.4 | +0.8 |
| Length adjacent to existing ROW (miles) | 0 | 0 | 0 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory Information Sources: GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

Table 10.6-3

Comparison of the Original Route and MP 69.5 to MP 69.7 Variation (Current Route - September 2019)

In its *November 2018 Resource Report 10 – Alternatives*, the Project evaluated the MP 69.5 to MP 69.7 Variation (Preferred Route) in Alamance County, North Carolina, to avoid a significant part of the Town of Haw River's vision for revitalizing the downtown / Main Street core area that the original route crossed. While the MP 69.5 to MP 69.7 Variation resulted in similar environmental impacts as the original route, it avoided the Town of Haw River's vision for revitalizing the downtown/Main Street core area, addressed town concerns along its original route, and was adopted and incorporated into the Project's November 2018 preferred pipeline route.

In its *May 22, 2019 Supplemental Filing*, the Project evaluated a route variation (Town of Haw River Variation) that would relocate the pipeline route to the west, further from the Town of Haw River. While the Town of Haw River Variation did not offer a significant environmental advantage over the November 2018 pipeline route it offered significant advantages regarding reduced impacts to landowners and Town residents.

In its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project explained that the Town of Haw River route variation was developed by the Project in an attempt to minimize impacts to the Town during the construction phase. The route variation closely resembles the Project's footprint during the pre-filing process (original route) and was surveyed during that timeframe. The May 2019 preferred route extends directly behind the Municipal Building and Fire Station was implemented after early discussions with Town of Haw management regarding future potential development near the pre-filed route. The Project noted that the Town of Haw River route variation has many benefits as it will reduce impacts to the Town residences, avoid direct impacts to the Fire Station and Community Center, and is expected to reduce overall construction duration in that area by 66% by diverting directly south to cross Main Street and running west behind former textile mill structures. A railroad crossing would occur further west and away from residences.

In its *August 9, 2019 Supplemental Information*, the Project adopted and incorporated Modification: MVP-VRR4-093-1422, which is a modified version of the Town of Haw River variations. This revised route will avoid constructing pipeline through Municipal Building parking lot, outdoor community center, and in close proximity to multiple residences. Therefore, the MP 69.5 to MP 69.7 Variation has been eliminated from the analysis as it is no longer applicable.

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-001.000 VA-PI-002.000 | MVP-RA-228-1624 | 0 | - | - | H-605 Lambert Compressor Station Suction Line |
| VA-PI-002.000 | MVP-RA-228-1627 | 0 | - | - | Lambert Compressor Station Discharge Line |
| VA-PI-008.000 VA-PI-009.000 | MVP-RA-143-1526 | 1 | 1.25 | 0.25 | Adjusted centerline ("CL") to be next to existing right-of-way ("ROW") |
| VA-PI-012.000 | MVP-RR-257-1422 | 2.25 | - | - | Adjusted the access road TA-PI-005 to end at a additional temporary workspace ("ATWS") that is outside of a wetland |
| VA-PI-014.000 | MVP-RA-143-1527 | 2.35 | 2.7 | 0.35 | Adjusted CL to be next to existing ROW |
| VA-PI-022.000 VA-PI-023.000 | MVP-RR-257-1425 | 3.4 | - | - | Extended access road TA-PI-006 to a public road |
| VA-PI-022.000 VA-PI-023.000 | MVP-RR-228-1312 | 3.55 | - | - | Contoured this work box to fit stream/wetland angles |
| VA-PI-029.000 VA-PI-030.000 VA-PI-031.000 VA-PI-032.000 | MVP-RA-143-1528 | 4.25 | 4.4 | 0.15 | Removed Point of Inflection ("PI's") |
| VA-PI-032.000 | MVP-RA-143-1529 | 4.6 | 4.9 | 0.30 | Adjusted CL to be next to existing ROW |
| VA-PI-034.000 | MVP-RA-143-1530 | 5 | 5.1 | 0.10 | Minimized creek crossing and adjust PI away from creek crossing |
| VA-PI-034.000 VA-PI-034.000.RR VA-PI-035.000 | MVP-RA-183-0855 | 5 | 5.3 | 0.30 | Adjusted CL to avoid being in stream for approximately 600 feet. |
| VA-PI-034.000 | MVP-RA-221-1831 | 5 | - | - | Trimmed ATWS to 30' x 100' to avoid sensitive resource area |
| VA-PI-034.000 | MVP-RA-221-1835 | 5 | - | - | Removed. Reduce / avoid impact on sensitive resource area |
| VA-PI-034.000 VA-PI-034.100.AR | MVP-RA-253-1423 | 5.1 | - | - | Modified access road layout |
| VA-PI-035.000 | MVP-RA-218-1715 | 5.3 | - | - | Access road removed |
| VA-PI-035.000 VA-PI-036.000 | MVP-RA-253-1606 | 5.5 | - | - | Removed TA-PI-044 |
| VA-PI-035.100.AR VA-PI-036.000 VA-PI-037.000 | MVP-VRR-270-1240 | 5.9 | - | - | Extend access road to a public road |
| VA-PI-037.000 | MVP-RA-153-1208 | 6.3 | 6.5 | 0.20 | Adjusted CL to be next to existing ROW |
| VA-PI-041.000 | MVP-RA-153-1215 | 7.2 | 7.3 | 0.10 | Adjusted CL to be next to existing ROW |
| VA-PI-041.000 VA-PI-042.000 VA-PI-044.000 | MVP-RA-228-1315 | 7.2 | 7.5 | 0.30 | Straighten out and follow existing pipelines |
| VA-PI-043.000 | MVP-RA-218-1732 | 7.6 | - | - | Removed TA-PI-020 |
| VA-PI-053.000 | MVP-RR-183-0902 | 9.6 | - | - | Adjusted access road to avoid cemetery |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-----------------|------------------|----------------|----------------|---|
| VA-PI-053.000 | MVP-RA-254-1528 | 9.6 | - | - | Modified access road layout |
| VA-PI-053.000 | MVP-RR-183-0859 | 9.65 | 10 | 0.35 | Adjusted centerline to avoid large cemetery |
| VA-PI-075.000 VA-PI-075.001.ASC VA-PI-076.000 | MVP-RR-221-1024 | 11 | 11.5 | 0.50 | Alternate route to avoid sensitive resource area |
| VA-PI-077.000 | MVP-RR-255-1641 | 11.65 | 11.9 | 0.25 | Adjusted centerline to avoid cemetery |
| VA-PI-079.000 | MVP-RA-218-2017 | 12.2 | - | - | Removed access road |
| VA-PI-082.000 | MVP-RA-219-1725 | 12.4 | - | - | Reduced ATWS to property lines to avoid cemetery |
| VA-PI-082.000 | MVP-RA-219-1839 | 12.6 | - | - | Removed access road |
| VA-PI-082.000 | MVP-RA-219-1846 | 12.65 | - | - | Removed access road |
| VA-PI-084.000 | MVP-RA-153-1249 | 12.8 | 13.1 | 0.30 | Adjusted CL to be next to existing ROW |
| VA-PI-092.200.AR | MVP-RR-219-0800 | 14.15 | - | - | The landowner requested that the access road not to go past their house and barn but from the gates at the road along the property line |
| VA-PI-092.200.AR | MVP-RA-254-1542 | 14.15 | - | - | Removed section of access road |
| VA-PI-094.000 | MVP-RA-153-1254 | 14.2 | 14.4 | 0.20 | Adjusted CL to be next to existing ROW |
| VA-PI-094.000 VA-PI-095.000 VA-PI-096.000 | MVP-RA-153-1257 | 14.7 | 14.85 | 0.15 | Adjusted CL to reduce the number of PIs. |
| VA-PI-096.000, VA-PI-099.000 | MVP-RA-218-2043 | 14.8 | 15.2 | 0.40 | Adjusted to route to the west based on the property evidence gathered and run the line north to a point of intersection with original route. Avoid VA-PI-097.000.ABU. |
| VA-PI-100.000 VA-PI-099.000 VA-PI-101.000 | MVP-RA-153-1303 | 15.2 | 15.45 | 0.25 | Adjusted CL to reduce the number of PIs in this location. |
| VA-PI-099.000 | MVP-RR-218-2047 | 15.2 | - | - | Landowner does not want the access road going by his house. |
| VA-PI-099.000 VA-PI-099.100.AR | MVP-RA-253-1127 | 15.4 | - | - | Remove section of TA-PI-037 |
| VA-PI-102.000.ABU VA-PI-103.000 | MVP-RA-179-1227 | 15.7 | 15.85 | 0.15 | Adjusted CL to be next to existing pipeline ROW. According to the LDAR info the slope is ~14.9% (8.2 deg) |
| VA-PI-103.000 VA-PI-104.000.ABU VA-PI-106.000 | MVP-RA-199-1127 | 15.9 | 16.05 | 0.15 | Avoided sensitive resource area. |
| VA-PI-106.000 | MVP-RA-253-1124 | 16.1 | - | - | Removed TA-PI-040 |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-115.000 VA-PI-118.000 | MVP-RA-219-1808 | 16.8 | 17.2 | 0.40 | At 16.9, propose to cross the creek at a more perpendicular angle. |
| VA-PI-118.000 | MVP-RA-253-1035 | 17.4 | - | - | Removed TA-PI-044 |
| VA-PI-120.000 VA-PI-121.000 VA-PI-122.000.ABU VA-PI-123.000 VA-PI-124.000 | MVP-RA-163-1213 | 18 | 18.4 | 0.40 | Adjusted CL to be next to the existing pipeline ROW. There is an old farm house and barn next to the existing pipeline ROW, potential karst area. |
| VA-PI-121.000 | MVP-RA-197-1303 | 18 | - | - | Adjusted CL of access road TA-PI-046 to avoid sensitive resource area |
| VA-PI-121.000 VA-PI-122.000.ABU VA-PI-123.000 VA-PI-124.000 | MVP-RA-239-1745 | 18.2 | 18.35 | 0.15 | Adjusted CL to avoid A frame electric poles |
| VA-PI-124.000 | MVP-RA-239-1750 | 18.3 | - | - | Mainline Valve 3 |
| VA-PI-150.000 | MVP-RA-228-1319 | 19.8 | 19.9 | 0.10 | Crossed the existing lines square |
| VA-PI-150.000 VA-PI-151.000 VA-PI-152.000 VA-PI-155.000 VA-PI-156.000 | MVP-RA-153-1458 | 19.9 | 20.3 | 0.40 | This will reduce the number of PI's needed and this route will miss the structure. |
| VA-PI-150.000 VA-PI-151.000 VA-PI-152.000 VA-PI-153.000.ABU VA-PI-154.000.ABU VA-PI-160.000 | MVP-RR-218-2110 | 19.9 | 20.4 | 0.50 | Preferred by the landowner. He had no issues with us co-locating but stressed that he did not want us to go through the center of his pasture. There is ~75' between the Williams line and the garage on tract VA-PI-153.000.ABU |
| VA-PI-160.000 | MVP-RR-257-1433 | 20.45 | - | - | Adjusted access road TA-PI-052 to avoid sensitive resource area |
| VA-PI-160.000 VA-PI-161.000 VA-PI-162.000 VA-PI-163.000 | MVP-RA-155-1441 | 20.5 | 21.2 | 0.70 | Adjusted CL to be next to existing ROW |
| VA-PI-164.100.AR VA-PI-164.000.ABU | MVP-RA-218-1737 | 21.2 | - | - | Removed TA-PI-054 |
| VA-PI-163.000 VA-PI-165.000 | MVP-RA-155-1446 | 21.35 | 21.65 | 0.30 | Adjusted CL to be next to existing ROW |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-171.000 VA-PI-172.000 VA-PI-173.000 | MVP-RA-155-1449 | 22.15 | 22.75 | 0.60 | Adjusted CL to be next to existing ROW |
| VA-PI-173.000 | MVP-RA-249-1429 | 22.35 | - | - | Removed ATWS 1172 |
| VA-PI-173.000 | MVP-RA-249-1444 | 22.35 | - | - | Removed TA-PI-056 |
| VA-PI-173.000 | MVP-RA-249-1437 | 22.45 | - | - | ATWS 1174 Removed |
| VA-PI-173.000 | MVP-RA-249-1447 | 22.45 | - | - | TA-PI-057 Removed |
| VA-PI-166.100.AR VA-PI-166.200.AR VA-PI-173.000 VA-PI-173.100.AR | MVP-RA-249-1450 | 22.6 | - | - | TA-PI-058 Removed |
| VA-PI-173.000 | MVP-RA-249-1454 | 22.7 | - | - | TA-PI-060 Removed |
| VA-PI-174.000 VA-PI-175.000 | MVP-RA-177-1447 | 23.1 | 23.7 | 0.60 | Adjusted CL to be next to existing ROW |
| VA-PI-178.000 | MVP-RA-177-1449 | 24.4 | 24.7 | 0.30 | Adjusted CL to be next to existing ROW |
| NC-RO-002.000 | MVP-RA-157-1313 | 26.25 | 26.45 | 0.20 | Adjusted CL to be next to existing ROW |
| NC-RO-005.000 NC-RO-006.000 | MVP-RR-269-1541 | 27 | 28.3 | 1.30 | Adjusted CL to avoid sensitive resource area and for LN3600 |
| NC-RO-005.000 NC-RO-006.000 | MVP-RR-270-1244 | 27.4 | - | - | Added access road |
| NC-RO-006.000 NC-RO-006.001.CS2 | MVP-RR-257-1435 | 28.1 | - | - | Extended access road PA-RO-000 to public road |
| NC-RO-006.000 | MVP-RA-153-1309 | 28.3 | - | - | Moved the ATWS to stay out of large wetland |
| NC-RO-007.000 | MVP-RA-159-1655 | 29.3 | 29.65 | 0.35 | There is side hill construction in this area, adjust CL to be on top of the hill |
| NC-RO-011.000 NC-RO-012.000.WBC NC-RO-013.000 NC-RO-014.000 NC-RO-015.000 NC-RO-016.000 NC-RO-018.000.ABU NC-RO-019.000 | MVP-RR-269-1549 | 29.9 | 30.55 | 0.65 | Adjusted CL for HDD profile and T15 location |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-011.000 | MVP-RR-270-1247 | 29.9 | - | - | Added ATWS for equipment and mats |
| NC-RO-011.000 | MVP-RR-270-1248 | 29.9 | - | - | Added ATWS for HDD area |
| NC-RO-011.000 | MVP-RR-270-1250 | 29.9 | - | - | Added ATWS for truck turning |
| NC-RO-011.000 | MVP-RR-270-1251 | 29.9 | - | - | Adjusted where the access road route |
| NC-RO-014.000 | MVP-RR-228-1322 | 30.3 | - | - | ATWS for Hydro test |
| NC-RO-022.000 NC-RO-025.000 | MVP-RR-257-1438 | 30.75 | 31.15 | 0.40 | Adjusted route to avoid red tract and 2 large stream crossings |
| NC-RO-025.000 NC-RO-027.000 NC-RO-029.000 | MVP-RA-159-1700 | 31.2 | 31.4 | 0.20 | Adjusted CL to reduce the amount of stream impact and to avoid side hill construction |
| NC-RO-025.900.AR NC-RO-025.850.ABU NC-RO-025.800.ABU NC-RO-025.700.AR NC-RO-025.650.ABU NC-RO-025.600.AR NC-RO-025.500.AR NC-RO-025.400.AR NC-RO-025.300.AR NC-RO-025.200.AR NC-RO-025.100.AR NC-RO-026.000.ABU NC-RO-025.000 | MVP-RA-219-1902 | 31.2 | - | - | Removed access road TA-RO-083 |
| NC-RO-029.000 NC-RO-030.000 | MVP-RA-179-1146 | 31.4 | 31.6 | 0.20 | Adjusted CL to stay away from sensitive resource area and bring the PI closer to the top of the hill |
| NC-RO-033.000 NC-RO-034.000 | MVP-RA-159-1706 | 31.6 | 31.9 | 0.30 | Adjusted CL to avoid side hill and multiple ravines |
| NC-RO-035.000 NC-RO-037.000 | MVP-RA-159-1717 | 32 | 32.15 | 0.15 | Adjusted CL to avoid side hill construction |
| NC-RO-038.000 | MVP-RR-257-1441 | 32.35 | 32.55 | 0.20 | Adjusted route to co-locate with existing pipeline |
| NC-RO-047.000 NC-RO-048.000 NC-RO-049.000 NC-RO-050.000 NC-RO-051.000 NC-RO-052.000 NC-RO-053.000 NC-RO-054.000 NC-RO-055.000 NC-RO-056.000 NC-RO-057.000 | MVP-RA-162-1521 | 34.2 | 35.35 | 1.15 | Adjusted CL to avoid side hill construction, baptism area around MP 34.6 and sensitive resource area around MP 34.9 |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|------------------|------------------|----------------|----------------|--|
| NC-RO-054.000 NC-RO-056.000 NC-RO-057.000 | MVP-RR-193-1030 | 34.95 | 35.35 | 0.40 | Adjusted CL to avoid multiple stream crossings and side hill construction |
| NC-RO-058.000 NC-RO-060.000 NC-RO-061.000 | MVP-RA-162-1535 | 35.9 | 36.35 | 0.45 | Adjusted CL to avoid side hill construction and to stay off "NO" tract |
| NC-RO-060.000 NC-RO-061.000 | MVP-RA-228-1520 | 36 | 36 | 0.00 | Removed ATWS 1304 because it is in a ravine. |
| NC-RO-060.000 | MVP-RA-242-1543 | 36 | - | - | Trimmed the work space out of the corner to stay off red tract |
| NC-RO-077.000 NC-RO-081.000 NC-RO-080.000 | MVP-RR-242-1509 | 37.6 | 37.85 | 0.25 | Adjusted route to avoid red tract |
| NC-RO-084.000 NC-RO-085.000 NC-RO-086.000 NC-RO-087.000 NC-RO-088.000 NC-RO-089.000 NC-RO-090.000 | MVP-RA-143-1533 | 38 | 38.8 | 0.80 | Avoided Side Hill Construction |
| NC-RO-085.000 | MVP-RA-230-1251 | 38.1 | - | - | Changed ATWS 1328 to 240' x 90' to fit inside survey corridor |
| NC-RO-091.000 | MVP-RA-230-1254 | 38.85 | - | - | Change ATWS 1337 to 90' x 110' to fit inside survey corridor |
| NC-RO-091.000 NC-RO-092.000 NC-RO-094.000 | MVP-RA-162-1541 | 39 | 39.35 | 0.35 | Adjusted CL to avoid side hill construction |
| NC-RO-092.000 NC-RO-094.000 NC-RO-095.000 | MVP-RR-193-1501 | 39.2 | 39.6 | 0.40 | Adjusted CL to bring the CL up the hill a little bit more and to get the WS out of the wetland/pond area |
| NC-RO-100.000 NC-RO-101.000 | MVP-RA-163-1116 | 40 | 40.2 | 0.20 | Adjusted CL to stay away from washout ditch |
| NC-RO-101.000 | MVP-RA-230-1302 | 40.15 | - | - | Change ATWS 1350 to 90' x 110' to fit inside survey corridor |
| NC-RO-101.000 | MVP-RA-230-1305 | 40.2 | - | - | Changed ATWS 1352 to 90' x 110' to fit inside survey corridor |
| NC-RO-106.000 | MVP-RA-230-1308 | 40.5 | - | - | Changed ATWS 1355 to 90' Wide to fit inside survey corridor |
| NC-RO-108.000 | MVP-RA-230-1311 | 40.6 | - | - | Changed ATWS 1357 to 90' Wide to fit inside survey corridor |
| NC-RO-109.000 | MVP-RA-153-1317 | 40.7 | 40.9 | 0.20 | Adjusted CL to avoid side hill construction |
| NC-RO-111.000 | MVP-VRR-270-1253 | 41.4 | - | - | Extended access road to public road |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| NC-RO-111.000 NC-RO-111.000.RC NC-RO-112.000 | MVP-RA-193-1511 | 41.45 | 41.8 | 0.35 | Adjusted CL to straighten out the route and reduce the number of PIs needed |
| NC-RO-111.000 NC-RO-112.000 | MVP-RR-249-1522 | 41.55 | 41.75 | 0.20 | Adjusted CL to be able to bore Hwy 29 |
| NC-RO-112.000 | MVP-RA-153-1320 | 41.6 | 41.8 | 0.20 | Straighten out this road crossing to follow the power lines. |
| NC-RO-111.000 NC-RO-112.000 | MVP-RR-249-1517 | 41.65 | - | - | ATWS for bore |
| NC-RO-112.000 | MVP-RA-157-1325 | 41.9 | 42.2 | 0.30 | Adjusted CL to stay away from small cemetery. |
| NC-RO-112.200 NC-RO-112.300 NC-RO-112.400 NC-RO-117.000 | MVP-RR-162-1547 | 42.3 | 43 | 0.70 | Adjusted CL to avoid AT&T tower |
| NC-RO-117.000 NC-RO-118.000.ABU NC-RO-122.000 | MVP-RR-177-1515 | 42.5 | 43.4 | 0.90 | Adjusted CL to stay away from large cemetery |
| NC-RO-122.000 | MVP-RA-230-1313 | 43.4 | - | - | Changed ATWS 1391 to 90' x 110' to fit inside survey corridor |
| NC-RO-122.100 | MVP-RA-230-1315 | 43.45 | - | - | Changed ATWS 1392 to 75' x 260' to fit inside survey corridor |
| NC-RO-133.200 | MVP-RA-230-1317 | 43.8 | - | - | Changed ATWS 1396 to 90' x 110' to fit inside survey corridor |
| NC-RO-133.000 | MVP-RA-230-1320 | 44.1 | - | - | Changed ATWS 1403 to 90' x 110' to fit inside survey corridor |
| NC-RO-138.000 | MVP-RA-230-1322 | 44.8 | - | - | Changed ATWS 1408 to 60' x 220' to fit inside survey corridor |
| NC-RO-140.000 NC-RO-142.000 | MVP-RA-153-1324 | 45.45 | 45.75 | 0.30 | CL adjustment to route around pasture. |
| NC-RO-148.505.AR NC-RO-148.510.AR | MVP-RR-254-1405 | 46.75 | - | - | Adjusted TA-RO-129 CL to MDS CL points of existing road and change the start of the access road off Frank Rd to follow existing gravel path |
| NC-RO-149.000 | MVP-RA-230-1324 | 47.05 | - | - | Changed ATWS 1429 to 90' x 230' to fit inside survey corridor |
| NC-RO-153.000 | MVP-RA-153-1329 | 47.3 | 47.5 | 0.20 | Straighten out to reduce the number of PIs |
| NC-RO-154.000 | MVP-RR-257-1443 | 47.3 | - | - | Extended access road TA-RO-130 to public road |
| NC-RO-154.000 | MVP-RA-153-1333 | 47.6 | 47.7 | 0.10 | Straighten out to reduce the number of PIs |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| NC-RO-154.000 | MVP-RA-230-1327 | 47.6 | - | - | Changed ATWS 1437 to 90' Wide to fit inside survey corridor |
| NC-RO-156.000 | MVP-RA-153-1338 | 48 | 48.1 | 0.10 | Straighten out to reduce the number of PIs |
| NC-RO-156.000 | MVP-RA-193-1529 | 48 | 48.1 | 0.10 | Adjusted CL to keep CL on top of hill |
| NC-RO-162.000 | MVP-RA-230-1329 | 48.7 | - | - | Changed ATWS 1449 to 90' Wide to fit inside survey corridor |
| NC-RO-165.000 | MVP-RA-253-1620 | 49.2 | - | - | Adjusted TA-RO-135 CL to MDS CL points of existing road and round turns |
| NC-RO-171.000 NC-RO-171.100.AR | MVP-RA-242-1439 | 49.8 | - | - | Removed access road TA-RO-138, runs through land owner's car port and past house. The access road is approx. 855 feet and the nearest road crossing is approx. 1330 feet. |
| NC-RO-170.000 NC-RO-171.100.AR | MVP-RR-257-1446 | 49.8 | - | - | Adjusted access road TA-RO-138 to avoid going under car port |
| NC-RO-181.000 | MVP-RA-253-1624 | 51.4 | - | - | Adjusted TA-RO-140 CL to MDS CL points of existing road and round turns |
| NC-RO-181.000 | MVP-RA-253-1626 | 51.6 | - | - | Adjusted TA-RO-141 CL to MDS CL points of existing road and round turns |
| NC-RO-183.000 | MVP-RA-253-1628 | 51.7 | - | - | Adjusted TA-RO-142 CL to MDS CL points of existing road and round turns |
| NC-RO-186.000 | MVP-RA-230-1331 | 52.55 | - | - | Changed ATWS 1477 to 90' x 110' to fit inside survey corridor |
| NC-RO-186.000 | MVP-RA-230-1333 | 52.6 | - | - | Changed ATWS 1478 to 90' x 110' to fit inside survey corridor |
| NC-AL-000.005 | MVP-RA-230-1335 | 52.6 | - | - | Change ATWS 1479 to 90' x 110' to fit inside survey corridor |
| NC-RO-186.000 | MVP-RR-257-1448 | 52.6 | - | - | Changed access road TA-TO-146 to go from public road to TWS |
| NC-AL-000.065 | MVP-RA-250-1321 | 53.5 | - | - | Trimmed this section of TA-AL-152 |
| NC-AL-008.000 NC-AL-009.000 | MVP-RR-165-1051 | 54.85 | 55.1 | 0.25 | Adjusted CL to avoid pond / swamp area |
| NC-AL-015.000 NC-AL-016.000 NC-AL-017.000.ABU NC-AL-018.000 | MVP-RA-206-1431 | 55.3 | - | - | Removed - There is enough ATWS at the PI (ATWS 1509) that this ATWS is not needed. |
| NC-AL-010.000 NC-AL-018.000 | MVP-RA-230-1340 | 55.3 | - | - | Changed ATWS 1509 to 75' x 230' to fit inside survey corridor |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-AL-018.000 NC-AL-019.000 NC-AL-021.000 NC-AL-022.000 NC-AL-023.000 NC-AL-024.000 NC-AL-025.000 NC-AL-025.100.AR NC-AL-027.000 | MVP-RA-153-1347 | 55.5 | 56.35 | 0.85 | Adjusted CL to reduce the number of PIs and to reduce the amount of tree clearing needed |
| NC-AL-018.000 | MVP-RR-270-1255 | 55.6 | - | - | Adjusted access road to be on existing path |
| NC-AL-028.000 | MVP-RA-153-1356 | 56.4 | - | - | Moved ATWS to the road crossing because the ATWS at MP 56.7 is on top of a pond |
| NC-AL-028.000 NC-AL-033.000 | MVP-RR-257-1513 | 56.8 | - | - | Added access road |
| NC-AL-035.000.ABU NC-AL-036.000 | MVP-RA-242-1409 | 56.9 | - | - | Removed access road TA-AL-160 runs on top of land owner's septic and in between their crop fields. The access road is approx. 2000 feet and the nearest road crossing is approx. 2740 feet. |
| NC-AL-033.000 | MVP-RR-257-1515 | 56.9 | - | - | Added access road |
| NC-AL-042.000 NC-AL-043.000 | MVP-RA-186-1423 | 57.35 | 57.75 | 0.40 | LiDAR suggests that the PI is in the pond. This adjustment is to avoid the pond |
| NC-AL-043.000 | MVP-RR-257-1517 | 57.75 | - | - | Extended access road TA-AL-161 to public road |
| NC-AL-051.000 | MVP-RA-231-0828 | 58.6 | - | - | Changed ATWS 1543 to 90' x 110' to fit inside survey corridor |
| NC-AL-054.000 NC-AL-058.000 | MVP-RA-228-1324 | 59.1 | 59.2 | 0.10 | Extended PIs out of the road ROW |
| NC-AL-075.000 | MVP-RA-231-0832 | 60.7 | - | - | Change ATWS 1559 to 90' x 110' to fit inside survey corridor |
| NC-AL-076.100.AR NC-AL-076.200.AR NC-AL-076.400.AR NC-AL-076.500.AR NC-AL-076.000 NC-AL-074.450.AR NC-AL-076.000 NC-AL-074.100.AR NC-AL-074.000 | MVP-RA-172-0945 | 60.8 | - | - | The landowner walked with the civil crew to show them where he wants the access road to be. |
| NC-AL-076.100.AR NC-AL-076.000 NC-AL-074.450.AR NC-AL-074.000 | MVP-RA-153-1402 | 60.9 | - | - | This property owner has an existing access road to the backfield that has been logged and cleared. |
| NC-AL-103.000 NC-AL-104.000 NC-AL-106.000 | MVP-RR-240-1812 | 61 | 67.5 | 6.50 | Mystic Valley Farm re-route |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-----------------|------------------|----------------|----------------|---|
| NC-AL-128.000 NC-AL-134.000 NC-AL-135.000 MVF-NC-AL-001.000 MVF-NC-AL-002.000 MVF-NC-AL-003.000 MVF-NC-AL-004.000 MVF-NC-AL-005.000 MVF-NC-AL-006.000 MVF-NC-AL-007.000 MVF-NC-AL-010.000 NC-AL-110.000.RC MVF-NC-AL-011.000 MVF-NC-AL-012.000.ABU MVF-NC-AL-013.000 MVF-NC-AL-016.000 MVF-NC-AL-017.000 NC-AL-120.000 NC-AL-119.000 FA34-AL-001.000 FA3-AL-002.000 FA3-AL-003.000 FA3-AL-005.000 FA3-AL-006.000 FA3-AL-007.000 FA3-AL-008.000 FA3-AL-009.000 FA3-AL-010.000 | | | | | |
| NC-AL-085.000 NC-AL-086.000 | MVP-RR-165-0832 | 62.25 | 62.5 | 0.25 | The land owner mentioned that in the field of tract NC-AL-085.000 they would like to put a sub-division in the future |
| NC-AL-086.000 | MVP-RA-231-0841 | 62.65 | - | - | Changed ATWS 1573 to 90' x 110' to fit inside survey corridor |
| NC-AL-089.000 NC-AL-088.000.ABU | MVP-RA-231-0844 | 62.8 | - | - | Changed ATWS 1575 to 90' x 330 to fit inside survey corridor |
| NC-AL-093.000 | MVP-RA-231-0846 | 63 | - | - | Changed ATWS 1577 to 90' x 110' to fit inside survey corridor |
| NC-AL-096.000 NC-AL-097.000 NC-AL-098.000 | MVP-RA-143-1534 | 63.1 | 63.5 | 0.40 | Extended PI out of creek |
| NC-AL-101.000.ABU NC-AL-102.000.ABU | MVP-RA-231-0848 | 63.45 | - | - | Changed ATWS 1582 to 90' x 230' to fit inside survey corridor |
| NC-AL-102.000.ABU | MVP-RA-231-0852 | 63.5 | - | - | Changed ATWS 1583 to 90' x 330' to fit inside survey corridor |
| NC-AL-103.000 | MVP-RR-206-1421 | 63.7 | - | - | This is an alternate access to TA-AL-172 and TA-AL-173 access roads. |
| NC-AL-103.000 NC-AL-103.100.AR | MVP-RA-250-1017 | 63.7 | - | - | Trimmed TA-AL-172 to remove the section behind the house |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-----------------|------------------|----------------|----------------|--|
| NC-AL-103.000 | MVP-RA-250-1019 | 64 | - | - | Removed TA-AL-173 |
| NC-AL-119.000 NC-AL-120.000 | MVP-RA-247-1539 | 65.6 | - | - | Mystic Valley Farm Access road 1 |
| NC-AL-120.000 | MVP-RA-231-0855 | 65.8 | - | - | Changed ATWS 1605 to 90' x 110' to fit inside survey corridor |
| NC-AL-121.000.ABU NC-AL-122.000 | MVP-RA-231-0858 | 65.9 | - | - | Change ATWS 1607 to 90' Wide to fit inside survey corridor |
| NC-AL-128.000 | MVP-RA-247-1557 | 66.75 | - | - | Mystic Valley Farm Access road 4 |
| NC-AL-132.100.AR NC-AL-133.000 NC-AL-128.000 NC-AL-133.000 | MVP-RA-247-1551 | 67.25 | - | - | Mystic Valley Farm Access road 2 |
| NC-AL-138.000 NC-AL-139.000 NC-AL-140.000 NC-AL-141.000 NC-AL-142.000 | MVP-RR-186-1407 | 67.9 | 68.2 | 0.30 | The LiDAR information suggests that the end of the pond is in the perm. ROW. This adjustment is to stay away from the pond |
| NC-AL-143.000 | MVP-RA-231-0901 | 68.3 | - | - | Changed ATWS 1629 to 90' Wide to fit inside survey corridor |
| NC-AL-143.000 | MVP-RR-270-1257 | 68.3 | - | - | Added perm. access road because Indian Village Trail is a private road |
| NC-AL-143.000 | MVP-RA-231-0903 | 68.35 | - | - | Changed ATWS 1631 to 90' x 110' to fit inside survey corridor |
| NC-AL-143.000 | MVP-RA-231-0907 | 68.4 | - | - | Changed ATWS 1632 to 90' x 110' to fit inside survey corridor |
| NC-AL-143.000 | MVP-RA-231-0928 | 68.45 | - | - | Changed ATWS 1634 to 90' x 110' to fit inside survey corridor |
| NC-AL-148.000 | MVP-RA-231-0930 | 68.7 | - | - | Changed ATWS 1639 to 90' x 165' to fit inside survey corridor |
| NC-AL-148.000 | MVP-RA-231-0933 | 68.8 | - | - | Changed ATWS 1641 to 90' x 110' to fit inside survey corridor |
| NC-AL-148.000 | MVP-RA-231-0937 | 68.85 | - | - | Changed ATWS 1643 to 90' x 140' to fit inside survey corridor |
| NC-AL-148.000 NC-AL-149.000 | MVP-RA-231-0939 | 68.95 | - | - | Changed ATWS 1646 to 85' x 220' to fit inside survey corridor |
| NC-AL-149.000 NC-AL-150.000 NC-AL-151.000 | MVP-RA-228-1327 | 69 | 69.1 | 0.10 | Straighten out and move PI out of road ROW |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|------------------|------------------|----------------|----------------|--|
| NC-AL-169.000.ABU NC-AL-170.000.ABU NC-AL-176.000.ABU NC-AL-179.000.ABU NC-AL-180.000.ABU NC-AL-181.000.ABU NC-AL-183.000 NC-AL-184.000 | MVP-RR-221-0832 | 69.5 | 69.9 | 0.40 | Less impact for this route. Shorter distance, less fittings, less pipe, lessen foreign utility impact, less overhead utility relocation. |
| NC-AL-182.000 NC-AL-182.100.ABU NC-AL-184.000 | MVP-RA-156-1740 | 69.8 | 69.95 | 0.15 | Adjusted CL to avoid abandoned building and to stay away from steep hill side |
| NC-AL-184.000 | MVP-RA-231-0941 | 69.9 | - | - | Changed ATWS 1659 to 90' x 110' to fit inside survey corridor |
| NC-AL-186.000 NC-AL-188.000 | MVP-RA-219-1820 | 70.35 | 70.7 | 0.35 | Proposed a couple minor shifts of centerline to account for side-hill terrain |
| NC-AL-191.000 | MVP-RA-231-0943 | 70.9 | - | - | Changed ATWS 1670 to 90' wide to fit inside survey corridor |
| NC-AL-191.000 | MVP-RA-231-0945 | 71 | - | - | Changed ATWS 1672 to 90' Wide to fit inside survey corridor |
| NC-AL-191.000 | MVP-RA-231-0947 | 71.05 | - | - | Changed ATWS 1675 to 90' x 110' to fit inside survey corridor |
| NC-AL-191.000 | MVP-RA-231-0948 | 71.3 | - | - | Changed ATWS 1676 to 80' x 280' to fit inside survey corridor |
| NC-AL-192.000 | MVP-RR-270-1300 | 71.55 | - | - | Extended access road to a public road |
| NC-AL-192.000 NC-AL-193.000 | MVP-RA-231-0950 | 71.8 | - | - | Changed ATWS 1680 to 90' x 230' to fit inside survey corridor |
| NC-AL-193.000 NC-AL-194.000 | MVP-RA-231-0952 | 71.9 | - | - | Changed ATWS 1681 to 90' x 260' to fit inside survey corridor |
| NC-AL-199.000 NC-AL-200.000 NC-AL-201.000 | MVP-RA-198-1549 | 72.4 | 72.7 | 0.30 | According to the LiDAR info, there is side hill construction in this area (~32.5%, ~18 deg.) Adjust the CL to avoid the side hill construction |
| NC-AL-210.000 | MVP-RR-270-1302 | 73.1 | - | - | Added perm. access road for T21 |
| NC-AL-210.000 | MVP-RR-270-1303 | 73.1 | - | - | Changed location of T21 Site |
| VA-PI-001.100 VA-PI-001.300 | MVP-VRR-296-1307 | 0 | - | - | Add new access road to be on private drive but keep the old one. Both will be permanent access roads |
| VA-PI-001.300.AR VA-PI-001.100.AR | MVP-VRA-339-1526 | 0 | - | - | Add flare to PA-PI-001A |
| VA-PI-002.000 | MVP-VRR-043-1447 | 0 | - | - | Change layout of Lambert CS |
| VA-PI-002.000 | MVP-RA-292-1124 | 0.1 | - | - | Edit ATWS 1001F to stay a minimum of 50 feet from the wetland/waterbody |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-006.000 VA-PI-008.000 | MVP-VRA-053-1723 | 1 | - | - | Add TWS wetland W-G18-2 enters limit of Disturbance ("LOD") at approx 73 feet |
| VA-PI-009.000 | MVP-VRA-353-1542 | 1.2 | - | - | Add space for turning to TA-PI-003 |
| VA-PI-008.300 VA-PI-009.000 | MVP-VRA-353-1540 | 1.2 | - | - | Add space for turning to TA-PI-003 |
| VA-PI-008.100.AR | MVP-VRA-339-1530 | 1.2 | - | - | Add flare to TA-PI-003 |
| VA-PI-009.000 | MVP-VRA-028-1433 | 1.2 | - | - | Edit ATWS 1018 because of adjusting access road to be on existing path |
| VA-PI-009.000 | MVP-VRA-292-1128 | 1.3 | - | - | Extend ATWS 1020 by 75 feet because of the removal of ATWS 1021 in large wetland |
| VA-PI-008.000 VA-PI-008.100.AR VA-PI-009.000 VA-PI-008.200.AR VA-PI-008.300.AR | MVP-RA-253-1407 | 1.5 | - | - | Adjusted TA-PI-003 CL to MDS CL points of existing road and round turns |
| VA-PI-010.000 | MVP-VRA-351-0913 | 1.6 | - | - | Add turning to TA-PI-004 |
| VA-PI-010.000 | MVP-VRA-340-0926 | 1.6 | - | - | Add to TA-PI-004 for turning |
| VA-PI-010.000 | MVP-VRR-310-1607 | 1.6 | - | - | Extend TA-PI-004 to a public road |
| VA-PI-010.000 | MVP-VRA-351-0911 | 1.6 | - | - | Add turning to TA-PI-004 |
| VA-PI-010.000 | MVP-VRA-031-1108 | 1.6 | - | - | Edit ATWS 1022 because of adjusting access road to be on existing path |
| VA-PI-010.000 | MVP-VRA-292-1132 | 1.6 | - | - | Delete ATWS 1021 because it is in a large wetland |
| VA-PI-012.000 | MVP-VRA-292-1135 | 2.1 | - | - | Delete ATWS 1025 because is it in a large wetland |
| VA-PI-012.000 VA-PI-014.000 | MVP-VRR-351-0915 | 2.3 | - | - | Extend TA-PI-005 to public road Fairview Rd |
| VA-PI-012.000 | MVP-VRA-340-0929 | 2.3 | - | - | Add to TA-PI-005 for turning |
| VA-PI-012.000 | MVP-VRA-292-1137 | 2.3 | - | - | Extend ATWS 1025A to tree line because of the removal of ATWS 1025 in large wetland |
| VA-PI-014.000 | MVP-VRA-028-1435 | 2.8 | - | - | Trim ATWS to stay off of driveway |
| VA-PI-023.000 | MVP-VRA-339-1532 | 3.4 | - | - | Add flare to TA-PI-006 |
| VA-PI-022.000 | MVP-RA-292-1139 | 3.6 | - | - | Edit ATWS 1036 to stay a minimum of 50 ft from the wetland/waterbody |
| VA-PI-024.000 VA-PI-025.000 | MVP-VRA-353-1445 | 3.7 | 3.95 | 0.25 | The landowner requested that the centerline is exactly to the property corner and then run the |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|------------------|------------------|----------------|----------------|---|
| | | | | | length of the property line until it is off the property |
| VA-PI-033.000 | MVP-VRA-339-1537 | 4.55 | - | - | Add to TA-PI-007 for turning |
| VA-PI-033.100.AR | MVP-VRA-339-1535 | 4.55 | - | - | Add to TA-PI-007 for turning |
| VA-PI-032.000 | MVP-VRA-028-1437 | 4.7 | - | - | Edit ATWS 1048 because of adjusting access road to be on existing path |
| VA-PI-032.000 | MVP-VRA-339-1554 | 4.8 | - | - | Add Flare to TA-PI-009 |
| VA-PI-032.000 VA-PI-032.100.AR | MVP-RA-253-1420 | 5.05 | - | - | Adjusted TA-PI-009 CL to MDS CL points of existing road and round turns |
| VA-PI-034.100.AR VA-PI-034.200.AR | MVP-VRA-277-0858 | 5.1 | - | - | Extend access road TA-PI-011 to Hwy 29 |
| - | MVP-VRA-339-1557 | 5.1 | - | - | Add flare to TA-PI-011 |
| VA-PI-036.000 | MVP-VRA-028-1439 | 5.9 | - | - | Edit ATWS 1056 because of adjusting access road to be on existing path |
| VA-PI-036.000 | MVP-RA-253-1609 | 6 | - | - | Adjusted TA-PI-015 CL to MDS CL points of existing road and round turns |
| VA-PI-036.000 | MVP-VRA-043-1335 | 6 | - | - | Add TWS because the environmental feature was removed by the state |
| VA-PI-037.000 | MVP-VRA-339-1559 | 6.2 | - | - | Add flare to TA-PI-017 |
| VA-PI-036.000 | MVP-VRA-043-1343 | 6.2 | - | - | Add TWS because the environmental feature was removed by the state |
| VA-PI-037.000 | MVP-VRA-028-1440 | 6.2 | - | - | Edit ATWS 1061 because of adjusting access road to be on existing path |
| VA-PI-039.000 | MVP-VRA-339-1603 | 6.85 | - | - | Add flare to TA-PI-018 |
| VA-PI-038.000 VA-PI-038.100.AR VA-PI-039.000 | MVP-RA-253-1614 | 7.05 | - | - | Adjusted TA-PI-018 CL to MDS CL points of existing road and round turns |
| VA-PI-047.000 | MVP-VRA-339-1613 | 8.2 | - | - | Add flare to TA-PI-021 |
| VA-PI-047.000 | MVP-RA-253-1616 | 8.4 | - | - | Adjusted TA-PI-021 CL to MDS CL points of existing road and round turns |
| VA-PI-047.000 VA-PI-048.000 | MVP-VRR-253-1618 | 8.65 | - | - | Adjusted TA-PI-022 CL to MDS CL points of existing road and round turns |
| VA-PI-050.000 | MVP-VRA-028-1441 | 8.9 | - | - | Edit ATWS 1082 because of adjusting access road to be on existing path |
| VA-PI-051.000 | MVP-VRA-339-1614 | 8.95 | - | - | Add flare to TA-PI-023 |
| VA-PI-051.000 | MVP-VRA-282-1127 | 9 | - | - | Add ATWS |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-052.000 | MVP-VRA-339-1617 | 9.1 | - | - | Add flare to TA-PI-024 |
| VA-PI-052.000 | MVP-VRA-028-1442 | 9.3 | - | - | Edit ATWS 1085 because of adjusting access road to be on existing path |
| VA-PI-053.000 | MVP-VRA-353-1543 | 9.6 | - | - | Add space for turning to TA-PI-025 |
| VA-PI-053.000 | MVP-VRA-353-1545 | 9.6 | - | - | Add space for turning to TA-PI-025 |
| VA-PI-053.000 | MVP-VRA-353-1547 | 9.6 | - | - | Add space for turning to TA-PI-025 |
| VA-PI-053.000 | MVP-VRA-339-1618 | 9.6 | - | - | Add flare to TA-PI-025 |
| VA-PI-060.000 | MVP-VRA-332-1532 | 10.3 | - | - | Trim TWS to stay off of VA-PI-060.000 |
| VA-PI-061.000 VA-PI-056.000.RC | MVP-VRA-339-1622 | 10.35 | - | - | Add flare to TA-PI-026B |
| VA-PI-075.000 | MVP-VRA-339-1626 | 11.1 | - | - | Add flare to TA-PI-027 |
| VA-PI-082.000 | MVP-VRA-339-1630 | 12.4 | - | - | Add flare to PA-PI-029 |
| VA-PI-081.000 | MVP-VRA-332-1652 | 12.4 | - | - | Trim ATWS to stay off of VA-PI-081.000 |
| VA-PI-084.000 VA-PI-085.000 | MVP-RA-254-1532 | 13.15 | - | - | Adjusted TA-PI-032 CL to MDS CL points of existing road and round turns |
| - | MVP-VRA-339-1631 | 13.2 | - | - | Add flare to TA-PI-033 |
| VA-PI-084.000 VA-PI-087.000 | MVP-VRA-028-1444 | 13.35 | - | - | Edit ATWS 1112 because of adjusting access road to be on existing path |
| - | MVP-VRA-339-1633 | 13.65 | - | - | Add flare to TA-PI-034 |
| VA-PI-090.000 VA-PI-091.000 | MVP-VRR-052-1359 | 13.7 | - | - | Move AR over to avoid wetlands and limit tree clearing |
| - | MVP-VRA-339-1634 | 14.15 | - | - | Add flare to TA-PI-035 |
| VA-PI-099.000 VA-PI-099.100 | MVP-VRA-028-1445 | 14.9 | - | - | Edit ATWS 1120 because of adjusting access road to be on existing path |
| VA-PI-096.000.RC | MVP-VRA-339-1636 | 15.2 | - | - | Add flare to TA-PI-037 |
| VA-PI-102.100 | MVP-VRA-353-1554 | 15.8 | - | - | Add space for turning to TA-PI-038 |
| VA-PI-102.000 | MVP-VRA-353-1553 | 15.8 | - | - | Add space for turning to TA-PI-038 |
| VA-PI-102.000 | MVP-VRA-353-1551 | 15.8 | - | - | Add space for turning to TA-PI-038 |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-102.000 | MVP-VRA-339-1638 | 15.8 | - | - | Add flare to TA-PI-038 |
| VA-PI-104.000 | MVP-VRA-332-1535 | 15.9 | - | - | Trim TWS to stay off of garage |
| VA-PI-104.100 VA-PI-103.000.RC | MVP-VRA-339-1639 | 16 | - | - | Add flare to TA-PI-039 |
| VA-PI-104.100 VA-PI-106.000 | MVP-VRA-028-1446 | 16 | - | - | Edit ATWS 1126 because of adjusting access road to be on existing path |
| VA-PI-116.000.ABU | MVP-VRA-339-1640 | 16.7 | - | - | Add flare to TA-PI-041 |
| VA-PI-115.000 | MVP-VRA-339-1643 | 16.7 | - | - | Add flare to TA-PI-042 |
| VA-PI-115.200 | MVP-VRA-052-1404 | 17.1 | - | - | Move TA-PI-043 over to avoid W-F18-46 |
| - | MVP-VRA-339-1644 | 17.2 | - | - | Add flare to TA-PI-043 |
| VA-PI-119.000 VA-PI-119.100 | MVP-VRA-339-1714 | 17.5 | - | - | Remove access road TA-PI-045 |
| VA-PI-119.000 | MVP-VRA-339-1646 | 17.5 | - | - | Add flare to TA-PI-045 |
| VA-PI-121.000 VA-PI-121.000.RC | MVP-VRA-339-1647 | 18 | - | - | Add flare to TA-PI-046 |
| VA-PI-129.000.RC VA-PI-125.000 | MVP-VRA-344-1526 | 18.65 | - | - | Extend TA-PI-048 to a public road |
| VA-PI-125.000 VA-PI-128.000 | MVP-VRA-344-1612 | 18.65 | - | - | Add to TA-PI-048 for turning |
| VA-PI-128.001 VA-PI-130.000 | MVP-VRA-022-1101 | 19 | - | - | Trim ATWS 1146 off of VA-PI-128.001 |
| VA-PI-143.000.RC | MVP-VRA-339-1654 | 19.5 | - | - | Add flare to TA-PI-049 |
| VA-PI-150.100 VA-PI-151.000.RC | MVP-VRA-339-1656 | 19.8 | - | - | Add flare to TA-PI-050 |
| VA-PI-149.000 VA-PI-150.000 | MVP-RA-292-1145 | 19.8 | - | - | Edit ATWS 1149 to stay a minimum of 50 ft from the wetland/waterbody |
| VA-PI-154.000.ABU | MVP-VRR-275-1245 | 20.2 | - | - | Add access road because Hyler Farm Ln becomes a private road approx. 60 feet from the edge of TWS |
| VA-PI-154.200 | MVP-VRA-285-1631 | 20.25 | - | - | Trim out TWS to have a 11' buffer around mobile home |
| VA-PI-160.000 | MVP-VRA-339-1658 | 20.45 | - | - | Add flare to TA-PI-052 |
| VA-PI-160.000 | MVP-VRR-052-1406 | 20.6 | - | - | Move TA-PI-052 over closer to pond to use culvert and follow existing path then follow current AR route to avoid cemetery |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-160.000 | MVP-VRA-052-1408 | 20.6 | - | - | Shift TA-PI-052 over to avoid W-F18-54 |
| VA-PI-162.000 VA-PI-163.000 | MVP-VRA-313-1017 | 21.1 | - | - | Rotate ground bed to parallel property line and to keep it on one land owner |
| VA-PI-165.000 | MVP-VRA-028-1456 | 21.6 | - | - | Edit ATWS 1168 because of adjusting access road to be on existing path |
| VA-PI-165.000 | MVP-VRA-339-1701 | 21.65 | - | - | Add flare to TA-PI-055 |
| VA-PI-169.000 | MVP-VRA-298-1122 | 21.9 | - | - | Trim out TWS to stay out of pond |
| VA-PI-172.000 | MVP-VRA-339-1705 | 23 | - | - | Add flare to TA-PI-061 |
| VA-PI-178.000 | MVP-VRA-053-1732 | 23.9 | - | - | Add TWS stream S-E18-34 only enters LOD at approx 60 feet |
| VA-PI-178.100 | MVP-VRA-052-1410 | 24 | - | - | Shift TA-PI-063 or avoid wetland W-E18-31 |
| VA-PI-178.100 | MVP-VRA-339-1707 | 24.05 | - | - | Add flare to TA-PI-063 |
| VA-PI-178.000 | MVP-VRA-339-1708 | 24.6 | - | - | Add flare to TA-PI-064 |
| VA-PI-180.000 | MVP-VRA-339-1719 | 24.8 | - | - | Add to TA-PI-066 for turning |
| VA-PI-180.000 | MVP-VRA-339-1710 | 24.8 | - | - | Add flare to TA-PI-066 |
| VA-PI-180.000 | MVP-VRA-339-1720 | 25.05 | - | - | Add to TA-PI-067 for turning |
| NC-RO-001.000 | MVP-VRA-339-1725 | 26 | - | - | Add to TA-PI-068 for turning |
| NC-RO-001.000 | MVP-VRA-339-1721 | 26 | - | - | Add to TA-PI-068 for turning |
| NC-RO-001.000 | MVP-VRA-340-1038 | 26.2 | - | - | Add flare to TA-RO-070 |
| NC-RO-001.001 NC-RO-004.000 | MVP-VRA-031-0947 | 26.3 | - | - | Trim TA-RO-071 to stay off of NC-RO-001.001 |
| NC-RO-004.000 NC-RO-002.000.RC | MVP-VRA-340-1041 | 26.7 | - | - | Add flare to TA-RO-071 |
| NC-RO-004.000.RC NC-RO-005.000 | MVP-VRA-340-1047 | 26.95 | - | - | Add to TA-RO-072A for turning |
| NC-RO-004.000.RC NC-RO-005.000 | MVP-VRA-340-1045 | 26.95 | - | - | Add to TA-RO-072A for turning |
| NC-RO-002.000.RC NC-RO-004.000 NC-RO-005.000 | MVP-VRA-340-1043 | 26.95 | - | - | Add flare to TA-RO-072 |
| NC-RO-005.000 | MVP-VRA-340-1052 | 27.15 | - | - | Add to TA-RO-073 for turning |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|-----------------------------------|--------------------|-------------------------|-----------------------|-----------------------|---|
| NC-RO-004.000.RC NC-RO-005.000 | MVP-VRA-340-1050 | 27.15 | - | - | Add to TA-RO-073 for turning |
| NC-RO-005.000 | MVP-VRA-028-1458 | 27.15 | - | - | Edit ATWS 1213B because of adjusting access road to be on existing path |
| NC-RO-005.000 | MVP-RA-292-1151 | 27.2 | - | - | Edit ATWS 1213D to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-005.000 | MVP-VRA-025-0826 | 27.3 | - | - | Add TWS and ATWS up to the edge of field |
| NC-RO-006.000 | MVP-VRA-353-1558 | 27.4 | - | - | Add space for turning to TA-RO-073A |
| NC-RO-006.000 | MVP-VRA-340-1054 | 27.4 | - | - | Add flare to TA-RO-073A |
| NC-RO-006.000 | MVP-VRA-340-1056 | 27.8 | - | - | Add to TA-RO-075 for turning |
| NC-RO-006.000 | MVP-VRA-345-1652 | 28.1 | - | - | Combine ATWS 1224A and 1224C |
| NC-RO-006.001.AR | MVP-VRA-340-1100 | 28.2 | - | - | Add flare to PA-RO-000 |
| NC-RO-006.000 | MVP-VRA-037-1332 | 28.2 | - | - | Add perm. ROW to TENNESSEE NATURAL GAS |
| NC-RO-006.000 | MVP-VRA-028-1459 | 28.3 | - | - | Edit ATWS 1230 because of adjusting access road to be on existing path |
| NC-RO-006.000 | MVP-VRA-340-1103 | 28.6 | - | - | Add to TA-RO-076 for turning |
| NC-RO-006.000 | MVP-VRA-340-1101 | 28.6 | - | - | Add to TA-RO-076 for turning |
| NC-RO-006.000 | MVP-VRA-028-1500 | 28.6 | - | - | Edit ATWS 1232 because of adjusting access road to be on existing path |
| NC-RO-007.000 | MVP-VRA-292-1153 | 29 | - | - | Edit ATWS 1237 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-007.000 | MVP-VRA-028-1501 | 29.15 | - | - | Edit ATWS 1239 because of adjusting access road to be on existing path |
| NC-RO-007.000 NC-RO-007.100.AR | MVP-VRA-340-1105 | 29.2 | - | - | Add flare to TA-RO-078 |
| NC-RO-007.000 | MVP-VRR-004-0828 | 29.3 | 29.5 | 0.2 | Adjust CL to top of hill to avoid side hill construction |
| NC-RO-007.000 NC-RO-007.300 | MVP-VRA-340-1106 | 29.6 | - | - | Add flare to TA-RO-079 |
| NC-RO-007.000 | MVP-RA-292-1154 | 29.6 | - | - | Edit ATWS 1243 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-011.000 | MVP-VRA-340-1108 | 29.9 | - | - | Add flare to TA-RO-080 |
| NC-RO-011.000 | MVP-VRA-353-1600 | 29.9 | - | - | Add space for turning to TA-RO-080 |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-011.000 NC-RO-012.000.WBC | MVP-VRA-063-1208 | 29.9 | - | - | Add TWS 5 feet wide centered on the CL of easement on top of permanent ROW from HDD exit down to water body 5' corridor centered on the pipe between the edges of the workspace between the entry and exit points. |
| NC-RO-011.000 | MVP-VRA-028-1502 | 29.9 | - | - | Edit ATWS 1247 because of adjusting access road to be on existing path |
| - | MVP-VRA-340-1109 | 30.4 | - | - | Add flare to TA-RO-081 |
| NC-RO-013.000 NC-RO-014.000 NC-RO-015.000 NC-RO-016.000 | MVP-VRA-063-1210 | 30.4 | - | - | Add TWS 5 feet wide centered on the CL of easement on top of permanent ROW from HDD entry down to water body 5' corridor centered on the pipe between the edges of the workspace between the entry and exit points. |
| NC-RO-015.000 NC-RO-015.000.RC | MVP-VRA-340-1118 | 30.45 | - | - | Add flare to PA-RO-082 |
| NC-RO-022.000 | MVP-VRA-289-1356 | 30.85 | - | - | Trim TWS to stay out of environmental buffer. Wait for survey data |
| NC-RO-022.000 NC-RO-025.000 | MVP-VRA-025-0831 | 30.9 | - | - | Trim TWS to make a 75' neck down because of the environmental buffer |
| NC-RO-025.000 | MVP-VRA-014-1555 | 31.1 | - | - | Trim TWS and ATWS to stay outside of environmental buffer |
| NC-RO-025.000 | MVP-VRA-014-1553 | 31.1 | - | - | Trim TWS and ATWS to stay outside of environmental buffer |
| NC-RO-025.000 | MVP-VRA-292-1156 | 31.1 | - | - | Edit TWS and ATWS 1253B to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-025.000 | MVP-VRA-014-1548 | 31.15 | - | - | Extend ATWS |
| NC-RO-030.000.RC NC-RO-033.000 | MVP-VRA-340-1121 | 31.65 | - | - | Add flare to TA-RO-084 |
| NC-RO-033.000 | MVP-VRA-053-1734 | 31.7 | - | - | Add TWS stream S-B18-120 doesn't enter LOD |
| NC-RO-033.000 | MVP-VRA-015-1411 | 31.7 | - | - | Trim ATWS to stay outside of environmental buffer |
| NC-RO-025.000 | MVP-VRA-025-0835 | 31.9 | - | - | Trim TWS and ATWS to stay outside of environmental buffer |
| NC-RO-034.000 | MVP-VRA-025-0839 | 31.9 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-037.000 | MVP-VRA-025-0841 | 32.1 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-038.200 | MVP-VRA-340-1122 | 32.4 | - | - | Add flare to TA-RO-085 |
| NC-RO-038.000 | MVP-VRA-340-1135 | 32.5 | - | - | Add to TA-RO-086 for turning |
| NC-RO-038.000 | MVP-VRA-340-1124 | 32.5 | - | - | Add to TA-RO-086 for turning |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-040.100 | MVP-VRA-340-1137 | 32.8 | - | - | Add flare to TA-RO-087 |
| NC-RO-040.000 | MVP-VRA-028-1503 | 32.8 | - | - | Edit ATWS 1271 because of adjusting access road to be on existing path |
| NC-RO-040.000 | MVP-RA-292-1159 | 32.9 | - | - | Edit ATWS 1274 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-040.000 | MVP-RA-292-1157 | 32.9 | - | - | Edit ATWS 1273 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-044.000 | MVP-VRA-353-1115 | 33.6 | - | - | Add flare to TA-RO-088 |
| NC-RO-044.000 | MVP-VRA-353-1116 | 33.6 | - | - | Adjust TA-RO-088 to stay off of NC-RO-044.100 |
| - | MVP-VRA-340-1139 | 33.6 | - | - | Add flare to TA-RO-088 |
| NC-RO-047.500 NC-RO-047.600 | MVP-VRA-340-1141 | 34.1 | - | - | Add flare to TA-RO-089 |
| NC-RO-047.000 | MVP-VRA-028-1245 | 34.2 | - | - | Trim TWS to stay 25' away from Duke's tower |
| NC-RO-047.000 | MVP-VRA-353-1428 | 34.2 | 34.3 | 0.1 | Adjust Stream and Duke Power crossing |
| NC-RO-053.000 | MVP-VRA-340-1144 | 34.7 | - | - | Add flare to TA-RO-091 |
| NC-RO-057.000 | MVP-VRA-028-1247 | 35.2 | - | - | Trim TWS to stay 25' away from Duke's tower |
| NC-RO-057.000 | MVP-VRA-028-1248 | 35.3 | - | - | Trim TWS to stay 25' away from Duke's tower |
| NC-RO-057.200.AR | MVP-VRA-340-1147 | 35.4 | - | - | Add flare to TA-RO-092 |
| NC-RO-057.000 | MVP-VRA-028-1249 | 35.4 | - | - | Trim ATWS to stay 25' away from power pole |
| - | MVP-VRA-340-1230 | 35.9 | - | - | Add flare to TA-RO-094 |
| NC-RO-061.000 NC-RO-061.000.RC | MVP-VRA-340-1232 | 36.15 | - | - | Add flare to TA-RO-095 |
| NC-RO-067.000 NC-RO-068.000 | MVP-VRA-340-1234 | 36.7 | - | - | Add flare to TA-RO-099 |
| NC-RO-069.000 | MVP-VRA-340-1236 | 37.1 | - | - | Add flare to TA-RO-100 |
| NC-RO-073.000 | MVP-VRA-014-1608 | 37.25 | - | - | Trim TWS to be outside of environmental buffer |
| - | MVP-VRA-340-1237 | 37.6 | - | - | Add flare to TA-RO-102 |
| NC-RO-081.000 | MVP-VRA-025-0842 | 37.7 | - | - | Trim TWS to stay outside of environmental buffer |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| NC-RO-086.000 | MVP-VRA-353-1604 | 38.1 | - | - | Add space for turning to TA-RO-103 |
| NC-RO-086.000 | MVP-VRA-353-1602 | 38.1 | - | - | Add space for turning to TA-RO-103 |
| NC-RO-086.000 | MVP-VRA-340-1239 | 38.1 | - | - | Add flare to TA-RO-103 |
| NC-RO-089.000 | MVP-VRA-028-1256 | 38.6 | - | - | Adjust TA-RO-104 to be 25' away from Duke's tower |
| NC-RO-089.000 | MVP-VRA-340-1240 | 38.6 | - | - | Add flare to TA-RO-104 |
| NC-RO-089.000 | MVP-VRA-014-1557 | 38.7 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-090.000 | MVP-VRA-014-1559 | 38.8 | - | - | Add ATWS |
| NC-RO-090.000 | MVP-VRA-014-1601 | 38.8 | - | - | Trim ATWS to be outside of environmental buffer |
| NC-RO-090.000 | MVP-VRA-014-1603 | 38.8 | - | - | Trim TWS and ATWS to be outside of environmental buffer |
| NC-RO-090.000.RC NC-RO-091.000 | MVP-VRA-340-1244 | 38.9 | - | - | Add flare to TA-RO-106 |
| NC-RO-091.000 | MVP-VRA-028-1504 | 38.9 | - | - | Edit ATWS 1338 because of adjusting access road to be on existing path |
| NC-RO-091.000 | MVP-VRA-028-1505 | 38.95 | - | - | Edit ATWS 1339 because of adjusting access road to be on existing path |
| NC-RO-094.000 NC-RO-095.000.RC NC-RO-094.200 | MVP-VRA-340-1245 | 39.4 | - | - | Add flare to TA-RO-107 |
| NC-RO-095.000 | MVP-VRA-028-1258 | 39.4 | - | - | Trim TWS to be 25' away from electric pole |
| NC-RO-094.000 | MVP-VRA-340-1253 | 39.6 | - | - | Add space for turning to TA-RO-108 |
| NC-RO-094.000 | MVP-VRA-340-1247 | 39.6 | - | - | Add flare to TA-RO-107 |
| NC-RO-100.200.AR | MVP-VRA-340-1250 | 39.7 | - | - | Add flare to PA-RO-109 |
| NC-RO-101.000 | MVP-VRA-028-1301 | 40.1 | - | - | Trim TWS to stay 25' away from electric pole |
| NC-RO-103.000 NC-RO-103.000.RC | MVP-VRA-285-1633 | 40.3 | - | - | Trim back TWS to have a 11' buffer around the house - 1 story |
| - | MVP-VRA-340-1255 | 40.9 | - | - | Add flare to TA-RO-111 |
| NC-RO-112.000 | MVP-VRA-340-1258 | 41.8 | - | - | Add space for turning to TA-RO-113 |
| NC-RO-112.100 | MVP-VRA-340-1256 | 41.8 | - | - | Add flare to PA-RO-113A |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-112.000.RC | MVP-VRA-340-1259 | 42.4 | - | - | Add flare to TA-RO-115 |
| NC-RO-117.000 | MVP-VRA-305-1714 | 42.9 | - | - | Trim TWS to make neck down 75' |
| NC-RO-117.000 | MVP-VRA-028-1303 | 42.95 | - | - | Trim TWS to stay 25' away from Duke's tower |
| NC-RO-117.000 | MVP-RA-292-1200 | 43.1 | - | - | Edit TWS and ATWS 1383 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-RO-121.000 | MVP-VRA-340-1300 | 43.2 | - | - | Add flare to TA-RO-115A |
| NC-RO-122.000 | MVP-VRA-289-1359 | 43.3 | - | - | Trim TWS to stay out of environmental buffer |
| NC-RO-124.000.RC | MVP-VRA-340-1302 | 43.4 | - | - | Add flare to TA-RO-117 |
| NC-RO-124.000.RC NC-RO-122.100 | MVP-VRA-340-1304 | 43.45 | - | - | Add flare to TA-RO-118 |
| NC-RO-133.100 | MVP-VRA-340-1306 | 43.9 | - | - | Add flare to TA-RO-119 |
| NC-RO-133.200 | MVP-VRA-353-1610 | 43.9 | - | - | Add space for turning to TA-RO-119 |
| NC-RO-133.000 | MVP-VRA-353-1608 | 43.9 | - | - | Add space for turning to TA-RO-119 |
| NC-RO-133.000 | MVP-VRA-353-1611 | 44.1 | - | - | Add space for turning to TA-RO-122 |
| NC-RO-133.000 | MVP-VRA-340-1308 | 44.1 | - | - | Add flare to TA-RO-122 |
| NC-RO-138.000.RC | MVP-VRA-340-1310 | 44.8 | - | - | Add flare to TA-RO-124 |
| NC-RO-139.000 | MVP-VRA-340-1314 | 44.95 | - | - | Add space for turning to TA-RO-125 |
| NC-RO-139.000 | MVP-VRA-340-1315 | 44.95 | - | - | Add space for turning to TA-RO-125 |
| NC-RO-138.000.RC NC-RO-139.000 | MVP-VRA-340-1317 | 45.3 | - | - | Add flare to TA-RO-126 |
| NC-RO-140.000 NC-RO-142.000 | MVP-VRA-025-0852 | 45.7 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-142.000 | MVP-VRA-025-0844 | 45.7 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-143.000 | MVP-VRA-053-1735 | 46.4 | - | - | Add TWS because stream S-A18-231 only enters LOD at approx 41 feet |
| NC-RO-148.505 | MVP-VRA-340-1436 | 46.7 | - | - | Add space for turning to TA-RO-129 |
| NC-RO-148.510.AR | MVP-VRA-340-1434 | 46.7 | - | - | Add space for turning to TA-RO-129 |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-148.510 | MVP-VRA-340-1320 | 46.7 | - | - | Add space for turning to TA-RO-129 |
| - | MVP-VRA-340-1437 | 47.3 | - | - | Add flare to TA-RO-130 |
| NC-RO-155.000 | MVP-VRA-025-0856 | 47.7 | - | - | Trim TWS to stay outside of environmental buffer |
| NC-RO-154.000 | MVP-VRA-025-0854 | 47.7 | - | - | Trim ATWS to stay outside of environmental buffer |
| NC-RO-154.000 | MVP-RA-292-1202 | 47.7 | - | - | Edit ATWS 1438 to stay a minimum of 50 ft from the wetland/waterbody |
| - | MVP-VRA-340-1443 | 48.2 | - | - | Add flare to TA-RO-131 |
| NC-RO-160.000 | MVP-VRA-353-1612 | 48.55 | - | - | Add space for turning to TA-RO-133 |
| NC-RO-157.000.RC NC-RO-159.000 | MVP-VRA-340-1444 | 48.55 | - | - | Add flare to TA-RO-133 |
| NC-RO-162.000.RC | MVP-VRA-340-1446 | 48.9 | - | - | Add flare to TA-RO-134 |
| NC-RO-165.000 | MVP-VRA-353-1613 | 49.2 | - | - | Add space for turning to TA-RO-135 |
| NC-RO-162.000.RC NC-RO-166.000 | MVP-VRA-340-1448 | 49.2 | - | - | Add flare to TA-RO-135 |
| NC-RO-165.000 | MVP-VRA-028-1304 | 49.2 | - | - | Delete ATWS 1453 because it is under Duke's ROW |
| NC-RO-165.000 | MVP-VRA-285-1635 | 49.25 | - | - | Trim out TWS to have a 11' buffer around house - 1 story, abandoned |
| NC-RO-165.000 NC-RO-166.000 NC-RO-167.000 | MVP-VRA-028-1306 | 49.3 | - | - | Delete ATWS 1455 because it is under Duke's ROW |
| NC-RO-168.000.RC | MVP-VRA-340-1450 | 49.5 | - | - | Add flare to TA-RO-136 |
| NC-RO-173.000 | MVP-VRA-028-1309 | 50.1 | - | - | Trim TWS to stay 25' away from Duke's tower |
| - | MVP-VRA-340-1453 | 50.3 | - | - | Add flare to TA-RO-139 |
| NC-RO-179.000 | MVP-VRA-292-1203 | 50.75 | - | - | Add TWS |
| NC-RO-182.000.RC | MVP-VRA-340-1455 | 51.4 | - | - | Add flare to TA-RO-140 |
| NC-RO-181.000 | MVP-VRA-340-1458 | 51.6 | - | - | Add to TA-RO-141 for turning |
| NC-RO-181.000 | MVP-VRA-340-1456 | 51.6 | - | - | Add to TA-RO-141 for turning |
| NC-RO-182.000.RC | MVP-VRA-340-1459 | 51.7 | - | - | Add flare to TA-RO-142 |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| NC-RO-183.000 NC-RO-183.100.AR NC-RO-183.200.AR NC-RO-183.300.AR | MVP-RR-253-1629 | 52 | - | - | Adjusted TA-RO-143 CL to MDS CL points of existing road and round turns |
| NC-GU-001.000 | MVP-VRA-340-1501 | 52.2 | - | - | Add flare to TA-RO-144 |
| NC-RO-183.000.RC NC-RO-185.000 | MVP-VRA-340-1502 | 52.2 | - | - | Add flare to TA-RO-144 |
| NC-GU-001.000 | MVP-VRA-340-1504 | 52.3 | - | - | Add space for turning to TA-RO-144 |
| NC-AL-000.045.RC NC-AL-000.045 | MVP-VRA-340-1509 | 53 | - | - | Add flare to TA-AL-147 |
| NC-AL-000.060.RC | MVP-VRA-340-1511 | 53.3 | - | - | Add flare to TA-AL-149 |
| NC-AL-002.000.AR | MVP-VRA-340-1526 | 53.5 | - | - | Add flare to TA-AL-152 |
| NC-AL-000.065 | MVP-VRA-053-1736 | 53.65 | - | - | Add TWS wetland W-A18-85 only enters LOD at approx 35 -40 feet |
| NC-AL-003.000 | MVP-VRA-340-1528 | 53.8 | - | - | Add flare to TA-AL-153 |
| NC-AL-005.000 | MVP-VRA-053-1737 | 54 | - | - | Add TWS steam S-A18-89 only enters LOD at approx 50 feet |
| NC-AL-006.100 | MVP-VRA-340-1530 | 54.2 | - | - | Add to TA-AL-154 for turning |
| - | MVP-VRA-340-1531 | 54.2 | - | - | Add flare to TA-AL-154 |
| NC-AL-006.000 | MVP-VRA-053-0922 | 54.35 | - | - | Add TWS back in because the wetland crosses the LOD approximately 70 feet so a neck down of 75' is not needed |
| NC-AL-006.100 | MVP-VRA-340-1532 | 54.7 | - | - | Add to TA-AL-155 for turning |
| NC-AL-009.000 | MVP-RA-292-1206 | 55 | - | - | Edit ATWS 1504 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-AL-018.000 | MVP-VRA-340-1534 | 55.6 | - | - | Add flare to TA-AL-157 |
| NC-AL-018.000 NC-AL-019.000 | MVP-VRA-028-1310 | 55.6 | - | - | Trim ATWS that to stay out of Duke's ROW |
| NC-AL-022.000 | MVP-VRA-028-1313 | 55.8 | - | - | Trim TWS to stay 25' away from electric poles |
| NC-AL-027.000 | MVP-VRA-340-1535 | 56.3 | - | - | Add flare to TA-AL-159 |
| NC-AL-033.000 | MVP-VRA-340-1537 | 56.8 | - | - | Add to TA-AL-159B for turning |
| NC-AL-033.000 | MVP-VRA-340-1538 | 56.8 | - | - | Add to TA-AL-159B for turning |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|------------------|------------------|----------------|----------------|---|
| NC-AL-033.000 | MVP-VRA-340-1542 | 56.9 | - | - | Add flare to TA-AL-159A |
| NC-AL-043.000 | MVP-VRA-305-1719 | 57.55 | - | - | Trim TWS to make neck down 75' |
| NC-AL-008.100 | MVP-VRA-353-1615 | 57.7 | - | - | Add space for turning to TA-AL-155 |
| NC-AL-043.000 | MVP-VRA-285-1636 | 57.8 | - | - | Trim back ATWS to have a 11' buffer around mobile home |
| NC-AL-044.000 NC-AL-044.000.RC NC-AL-046.000 | MVP-VRA-305-1721 | 57.85 | - | - | Trim TWS to make neck down 75' |
| NC-AL-043.000.RC | MVP-VRA-340-1546 | 58.05 | - | - | Add flare to TA-AL-162 |
| NC-AL-064.000 | MVP-VRA-305-1723 | 59.65 | - | - | Trim TWS to make neck down 75' |
| NC-AL-066.000 | MVP-VRA-340-1613 | 59.9 | - | - | Add flare to TA-AL-165 |
| NC-AL-068.000.RC | MVP-VRA-340-1615 | 60.2 | - | - | Add flare to PA-AL-166 |
| NC-AL-069.000 | MVP-VRA-354-1623 | 60.3 | - | - | Remove contractor yard CY-10 and TA-AL-165A |
| NC-AL-076.100 | MVP-VRA-340-1616 | 61.1 | - | - | Add flare to TA-AL-167 |
| NC-AL-081.000.RC | MVP-VRA-340-1617 | 61.55 | - | - | Add flare to TA-AL-168 |
| NC-AL-086.000 | MVP-VRA-340-1619 | 62.4 | - | - | Add flare to TA-AL-169 |
| NC-AL-086.000 | MVP-VRA-028-1507 | 62.5 | - | - | Edit ATWS 1572 because of adjusting access road to be on existing path |
| NC-AL-086.000 | MVP-VRA-053-1740 | 62.65 | - | - | Add TWS wetland W-A18-80 enters LOD at approx 70 feet |
| NC-AL-093.000 NC-AL-102.000 | MVP-VRA-063-1215 | 63.45 | - | - | Add TWS 5 feet wide centered on the CL of easement on top of permanent ROW from HDD exit down to water body 5' corridor centered on the pipe between the edges of the workspace between the entry and exit points. |
| NC-AL-103.000 | MVP-VRA-340-1653 | 63.7 | - | - | Move access road over to stay off of NC-AL-103.100 |
| NC-AL-101.000 | MVP-VRA-340-1620 | 63.7 | - | - | Add flare to TA-AL-171 |
| - | MVP-VRA-340-1621 | 63.7 | - | - | Add flare to TA-AL-172 |
| NC-AL-104.000 | MVP-VRA-063-1220 | 63.75 | - | - | Add TWS 5 feet wide centered on the CL of easement on top of permanent ROW from HDD entry down to water body 5' corridor centered on the pipe between the edges of the workspace between the entry and exit points. |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|------------------|------------------|----------------|----------------|---|
| NC-AL-103.000 NC-AL-104.000 | MVP-VRA-305-1724 | 64 | - | - | Trim TWS to make neck down 75' |
| - | MVP-VRA-340-1623 | 64.8 | - | - | Add flare to PA-AL-175A |
| MVF-NC-AL-007.000 MVF-NC-AL-010.000 | MVP-VRR-032-1136 | 64.8 | 65.2 | 0.4 | Adjust the CL to avoid cemetery and change the road crossing PI to be a little bit further away from the road ROW |
| MVF-NC-AL-007.000 | MVP-VRR-032-1140 | 65.1 | - | - | Add ATWS 50' x 200' for PI |
| MVF-NC-AL-007.000 | MVP-VRA-025-0905 | 65.2 | - | - | Add ATWS |
| MVF-NC-AL-011.000 | MVP-VRA-025-0906 | 65.3 | - | - | Add to ATWS 1588J and edit the north line to be off of the road ROW |
| MVF-NC-AL-011.000 MVF-NC-AL-012.000 | MVP-VRA-025-0907 | 65.3 | - | - | Trim ATWS to be outside of environmental buffer and to stay off of MVF-NC-AL-012.000 |
| MVF-NC-AL-011.000 MVF-NC-AL-012.000 | MVP-VRR-032-1147 | 65.3 | 65.45 | 0.15 | Adjust the route to be on the west edge of MVF-NC-AL-011.000 staying 10 ft away from property line and staying out of the environmental buffer. No LOD should be on MVF-NC-AL-012.000 |
| MVF-NC-AL-013.000 NC-AL-120.000 | MVP-VRA-305-1726 | 65.6 | - | - | Trim TWS to make neck down 75' |
| FA3-AL-006.000 | MVP-VRA-028-1532 | 66.4 | - | - | Trim ATWS 1588T to stay out of environmental buffer |
| NC-AL-132.100 | MVP-VRA-340-1629 | 67.25 | - | - | Add flare to TA-AL-180 |
| NC-AL-132.100 NC-AL-133.000 | MVP-VRA-340-1631 | 67.3 | - | - | Add space for turning to TA-AL-180 |
| MVF-NC-AL-013.000 MVF-NC-AL-011.000 | MVP-RA-292-1207 | 67.5 | - | - | Edit ATWS 1588K to stay a minimum of 50 ft from the wetland/waterbody |
| NC-AL-137.000 | MVP-RA-292-1208 | 67.6 | - | - | Edit ATWS 1620 to stay a minimum of 50 ft from the wetland/waterbody |
| NC-AL-143.000 | MVP-VRA-011-0842 | 68.35 | - | - | Trim TWS to reduce the environmental impact |
| NC-AL-148.000 | MVP-VRA-340-1635 | 68.95 | - | - | Add flare to TA-AL-185 |
| NC-AL-149.000 | MVP-VRA-353-1619 | 69.95 | - | - | Add space for turning to TA-AL-185 |
| NC-AL-191.000 | MVP-VRA-340-1638 | 70.9 | - | - | Add space for turning to TA-AL-188 |
| NC-AL-191.000 | MVP-VRA-340-1640 | 70.9 | - | - | Add to TA-AL-188, Change to ATWS |
| | MVP-VRA-340-1641 | 70.9 | - | - | Add flare to TA-AL-188 |
| NC-AL-191.100 | MVP-VRA-028-1508 | 71 | - | - | Edit ATWS 1674 because of adjusting access road to be on existing path |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| NC-AL-197.000 | MVP-VRA-340-1644 | 72.2 | - | - | Add flare to TA-AL-192 |
| NC-AL-210.000 NC-AL-211.000 | MVP-VRA-340-1646 | 73 | - | - | Add space for turning to PA-AL-194 |
| NC-AL-211.000 | MVP-VRA-340-1648 | 73 | - | - | Add flare to PA-AL-194 |
| NC-AL-210.000 | MVP-VRA-011-0850 | 73 | - | - | Trim ATWS to stay outside of the environmental buffer |
| NC-AL-210.000 | MVP-VRR-023-1100 | 73.11 | - | - | This is a place holder for the move of the T-21 site |
| NC-AL-210.000 | MVP-VRR-023-1057 | 73.11 | 73.13 | 0.02 | This is a place holder for the extension of the pipeline because of the T-21 move |
| VA-PI-142.200 | MVP-VRA-339-1717 | CY-03 | - | - | Adjust access road TA-PI-000B flare |
| NC-RO-001.400 | MVP-VRA-052-1357 | CY-05 | - | - | Trim CY-05 to avoid W-A18-249 |
| NC-RO-001.100.CY05 NC-RO-001.500.CY | MVP-VRA-354-1611 | CY-05 | - | - | Remove this part of CY-05 to stay off of NC-RO-001.100.CY05 |
| NC-RO-014.200.CY06 | MVP-VRA3-354-1613 | CY-06 | - | - | Remove this part of CY-06 to stay off of NC-RO-014.200.CY06 |
| NC-RO-014.100 | MVP-VRA-052-1646 | CY-06 | - | - | Trim out CY-06 to avoid wetland W-A18-245 and tree clearing |
| NC-RO-002.200.CY07 | MVP-VRA-354-1615 | CY-07 | - | - | Remove contractor yard CY-07 and TA-RO-082B |
| | MVP-VRA-340-1034 | CY-08 | - | - | Add flare to TA-RO-000A |
| NC-RO-136.100 | MVP-VRA-011-0830 | CY-08 | - | - | Trim contractor yard CY-08 to stay outside of environmental buffer |
| NC-RO-136.100 | MVP-VRA-011-0833 | CY-08 | - | - | Trim contractor yard CY-08 to stay outside of environmental buffer |
| NC-GU-001.300.CY09 | MVP-VRA-354-1622 | CY-09 | - | - | Remove this part of CY-09 |
| NC-GU-001.200 | MVP-VRA-011-0835 | CY-09 | - | - | Trim contractor yard CY-09 to be outside of environmental buffer and out of trees |
| VA-PI-002.000 | MVP-VRA3-115-1254 | 0 | - | - | Trim ATWS 1001E to canopy line |
| VA-PI-002.000 | MVP-VRA3-115-1253 | 0 | - | - | Trim ATWS 1001E to canopy line |
| VA-PI-002.000 | MVP-VRA3-115-1251 | 0 | - | - | Trim ATWS 1001E to canopy line |
| VA-PI-009.000 | MVP-VRA3-122-1122 | 1.2 | - | - | Delete ATWS 1018 because TA-PI-003 was deleted |
| VA-PI-008.000 VA-PI-008.300 VA-PI-009.000 | MVP-VRA3-116-1258 | 1.2 | - | - | Delete TA-PI-003 |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--------------------------------|-------------------|------------------|----------------|----------------|---|
| VA-PI-009.000 | MVP-VRA3-093-1825 | 1.2 | - | - | Change access road TA-PI-003 to tie back into the LOD |
| VA-PI-009.000 | MVP-VRA3-093-1823 | 1.2 | - | - | Delete ATWS 1019 |
| VA-PI-009.000 | MVP-VRR3-080-1320 | 1.2 | 1.4 | 0.2 | Adjust route to avoid sensitive resource (VA FS 53) |
| VA-PI-009.000 | MVP-VRA3-093-1827 | 1.3 | - | - | Extend ATWS 1017 so that the access road change will have area for turnaround |
| VA-PI-009.000 | MVP-VRA3-093-1829 | 1.3 | - | - | Change ATWS 1020 to wrap around the new route |
| VA-PI-010.000 | MVP-VRR3-116-1300 | 1.6 | - | - | Widen out PI for access road TA-PI-004 |
| VA-PI-012.000 | MVP-VRR3-098-1552 | 2.2 | - | - | Adjust TA-PI-005 to avoid wetland |
| VA-PI-012.000 | MVP-VRR3-116-1303 | 2.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-005. Stay inside of survey corridor |
| VA-PI-012.000 | MVP-VRR3-116-1306 | 2.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-005. Stay inside of survey corridor |
| VA-PI-012.000 | MVP-VRR3-116-1304 | 2.3 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-PI-005. Stay inside of survey corridor |
| VA-PI-012.000 | MVP-VRA3-121-1111 | 2.3 | - | - | Widen TA-PI-005 for safe vehicle transportation. Stay inside of survey corridor |
| VA-PI-012.000 VA-PI-014.000 | MVP-VRA3-058-1114 | 2.7 | - | - | Remove TA-PI-005 from impacting tract VA-PI-014.000, make edge of property to CL of access road 15' making the distance to edge of access road 2.5' |
| VA-PI-023.000 | MVP-VRR3-117-2202 | 3.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-006. Stay inside of survey corridor |
| VA-PI-022.000 VA-PI-023.000 | MVP-VRA3-115-1255 | 3.6 | - | - | Move ATWS 1035 north into field and out of trees. Give the canopy line a 3' buffer |
| VA-PI-022.000 VA-PI-023.000 | MVP-VRA3-116-1309 | 3.6 | - | - | Delete TA-PI-006A |
| VA-PI-032.000 | MVP-VRA3-116-1343 | 4.8 | - | - | Delete ATWS 1048 |
| VA-PI-032.000 | MVP-VRA3-116-1347 | 4.8 | - | - | Delete TA-PI-009 |
| VA-PI-034.100 | MVP-VRR3-116-1601 | 5.1 | - | - | Add ATWS 12.5' x 100' for pull off on the north of TA-PI-011. Stay inside of survey corridor |
| VA-PI-034.100 | MVP-VRR3-116-1559 | 5.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-011. Stay inside of survey corridor |
| VA-PI-034.000 VA-PI-034.100 | MVP-VRR3-119-1614 | 5.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-011. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|-----------------------------------|-------------------|------------------|----------------|----------------|--|
| VA-PI-034.100 VA-PI-034.200 | MVP-VRA3-058-1226 | 5.2 | - | - | Remove TA-PI-011 from impacting tract VA-PI-034.200 |
| VA-PI-036.000 | MVP-VRR3-116-1604 | 5.6 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-PI-015. Stay inside of survey corridor |
| VA-PI-035.100 VA-PI-037.000 | MVP-VRR3-116-1654 | 5.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-016. Stay inside of survey corridor |
| VA-PI-036.000 | MVP-VRA3-043-1340 | 6 | - | - | Edit ATWS 1057 to be 100' x 200' rectangle |
| VA-PI-036.000 | MVP-VRA3-067-0940 | 6.2 | - | - | Move ATWS 1059 north to avoid ground water testing well |
| VA-PI-036.000 VA-PI-037.000 | MVP-VRA3-043-1345 | 6.25 | - | - | Edit ATWS 1060 to be 100' x 200' rectangle |
| VA-PI-038.000 | MVP-VRR3-116-1611 | 6.85 | - | - | Add ATWS 12.5' x 100' for pull off on the south of TA-PI-018. Stay inside of survey corridor |
| VA-PI-039.000 | MVP-VRR3-116-1642 | 6.85 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-018. Stay inside of survey corridor |
| VA-PI-040.000 | MVP-VRA3-116-1613 | 7 | - | - | Move ATWS 1066 south to avoid slope |
| VA-PI-040.000.RC VA-PI-041.000 | MVP-VRA3-052-1712 | 7.2 | - | - | Add gravel pull off |
| VA-PI-041.000 | MVP-VRA3-098-1408 | 7.2 | - | - | Add Ground bed 1, Option 2 back in. Please call this "Groundbed 1, Alternate 2" |
| VA-PI-041.000 | MVP-VRA3-058-1418 | 7.2 | - | - | Groundbed 1, Option 2 = 36.750700, - 79.425596 (between MM 7.1 and 7.2) is not viable due to the soil resistivity data we received. Can be removed from the maps and the alignment sheets at this time |
| VA-PI-042.000 | MVP-VRA3-042-1140 | 7.4 | - | - | Trim TWS to stay 5' off of the existing facility fence |
| VA-PI-042.000 | MVP-VRA3-037-1107 | 7.4 | - | - | Change PA-PI-018B to MLV 2 to be 12' wide and centered on the CL of easement |
| VA-PI-045.001 VA-PI-045.000.RC | MVP-VRR3-059-1434 | 8.1 | - | - | Groundbed 1, Mar Alt 2 seem to have power nearby. Please call this "Groundbed 1, Alternate 4" |
| VA-PI-045.001 VA-PI-045.000.RC | MVP-VRA3-059-1430 | 8.1 | - | - | Add gravel pad near the rectifier location for the operations pickup trucks |
| VA-PI-047.000 | MVP-VRA3-116-1644 | 8.2 | - | - | Delete TA-PI-021 |
| VA-PI-048.000 | MVP-VRR3-116-1739 | 8.5 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-022. Stay inside of survey corridor |
| VA-PI-048.000 | MVP-VRR3-116-1740 | 8.5 | - | - | Add ATWS 12.5' x 100' for pull off on the south of TA-PI-022. Stay inside of survey corridor |
| VA-PI-051.000 | MVP-VRR3-117-2204 | 8.95 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-023. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|--|
| VA-PI-051.000 | MVP-VRR3-117-2205 | 8.95 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-023. Stay inside of survey corridor |
| VA-PI-052.000 | MVP-VRA3-116-1741 | 9.1 | - | - | Delete TA-PI-024 |
| VA-PI-053.000 | MVP-VRR3-059-1457 | 9.35 | - | - | Groundbed 1, Mar Alt 1 seem to have power nearby. Please call this "Groundbed 1, Alternate 3" |
| VA-PI-053.000 VA-PI-052.000.RC | MVP-VRA3-059-1451 | 9.35 | - | - | Add gravel pad near the rectifier location for the operations pickup trucks |
| VA-PI-053.000 | MVP-VRR3-116-1744 | 9.6 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-PI-025. Stay inside of survey corridor |
| VA-PI-053.000 | MVP-VRA3-098-1555 | 9.8 | - | - | Trim TWS to avoid wetland |
| VA-PI-054.000 VA-PI-055.000 VA-PI-057.000 | MVP-VRA3-087-1719 | 10.2 | - | - | Remove TWS from tract VA-PI-057.000 completely. total impact .01 acres Please give the property line a 1' buffer |
| VA-PI-072.000 VA-PI-073.000 VA-PI-065.000 | MVP-VRA3-058-1404 | 10.65 | - | - | Remove TWS from tract VA-PI-072.000, give the property line a 1' buffer |
| VA-PI-065.000.RC VA-PI-065.000 | MVP-VRA3-344-1609 | 10.7 | - | - | Add temporary drive way for landowner access |
| VA-PI-075.000 | MVP-VRA3-098-1410 | 10.8 | - | - | Add Ground bed 1, Option 1 back in. Please call this "Groundbed 1, Alternate 1" |
| VA-PI-065.000.RC | MVP-VRA3-064-0832 | 10.8 | - | - | Add gravel pull off back in |
| VA-PI-075.000 | MVP-VRA3-058-1421 | 10.8 | - | - | Groundbed 1, Option 1 = 36.710853, - 79.464851 (between MM 10.7 and 10.8) is not viable due to the soil resistivity data we received. Can be removed from the maps and the alignment sheets at this time |
| VA-PI-075.000 | MVP-VRR3-116-1755 | 11.05 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-027. Stay inside of survey corridor |
| VA-PI-075.000 | MVP-VRA3-093-1830 | 11.1 | - | - | Extend ATWS 1096 to property line. Give property line a 1' buffer |
| VA-PI-082.000 | MVP-VRA3-044-1119 | 12.4 | - | - | Delete PA-PI-029 because it leads to an old location of an MLV |
| VA-PI-088.000 VA-PI-089.000 VA-PI-090.000 | MVP-VRA3-052-1552 | 13.4 | 13.5 | 0.1 | Adjust line to stay on VA-PI-089.000 and not impact VA-PI-088.000 at all, give the property line a 1' buffer |
| VA-PI-090.000 VA-PI-091.000 VA-PI-090.100 | MVP-VRA3-116-1756 | 13.65 | - | - | Delete TA-PI-034 |
| VA-PI-092.200 | MVP-VRR3-116-1758 | 14.15 | - | - | Add ATWS 12.5' x 200' for pull off on the west of TA-PI-035. Stay inside of survey corridor |
| VA-PI-092.200 VA-PI-092.300 | MVP-VRA3-064-0909 | 14.15 | - | - | Move TA-PI-035 over to avoid VA-PI-092.300. Give the property line a 1' buffer |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--------------------------------|-------------------|------------------|----------------|----------------|--|
| VA-PI-094.000 | MVP-VRR3-112-1329 | 14.7 | - | - | Move ATWS 1118A to the west side of LOD because of wetland |
| VA-PI-094.000 | MVP-VRA3-122-0938 | 14.7 | - | - | Trim ATWS 1118A to tree canopy line |
| VA-PI-095.000 VA-PI-096.000 | MVP-VRR3-112-1330 | 14.75 | - | - | Move ATWS 1118B to the west side of LOD because of wetland |
| VA-PI-100.000 | MVP-VRA3-114-1548 | 14.9 | - | - | Move ATWS 1120 to the east side of LOD per landowner request (Pollok) |
| VA-PI-099.000 VA-PI-099.100 | MVP-VRA3-114-1546 | 14.9 | - | - | MP 14.90 Delete TA-PI-036 |
| VA-PI-099.000 | MVP-VRR3-114-1549 | 15.1 | - | - | Adjust TA-PI-037 up the hill per landowner request (Pollok) |
| VA-PI-099.000 | MVP-VRA3-114-1551 | 15.1 | - | - | Move ATWS 1120A up the hill away from the pond per landowner request (Pollok) |
| VA-PI-099.000 VA-PI-101.000 | MVP-VRA3-114-1552 | 15.3 | 15.4 | 0.1 | Adjust the route to avoid sediment catch area per landowner request (Pollok) |
| VA-PI-102.000 VA-PI-102.100 | MVP-VRA3-116-1759 | 15.8 | - | - | Delete TA-PI-038 |
| VA-PI-114.000 VA-PI-115.000 | MVP-VRA3-052-1554 | 16.45 | - | - | Trim ATWS 1131 to not impact VA-PI-114.000 at all, give the property line a 1' buffer |
| VA-PI-115.000 VA-PI-116.000 | MVP-VRR3-116-1801 | 16.7 | - | - | Add ATWS 12.5' x 100' for pull off on the north of TA-PI-041. Stay inside of survey corridor |
| VA-PI-115.000 | MVP-VRA3-116-1802 | 16.7 | - | - | Delete TA-PI-042 |
| VA-PI-115.100 | MVP-VRR3-119-1616 | 17.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-043. Stay inside of survey corridor |
| VA-PI-118.000 | MVP-VRR3-119-1615 | 17.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-043. Stay inside of survey corridor |
| VA-PI-118.000 | MVP-VRA3-058-1426 | 17.3 | - | - | Move ATWS 1137 south west to avoid clearing trees |
| VA-PI-121.000 VA-PI-118.000 | MVP-VRR3-282-1108 | 17.4 | 17.9 | 0.5 | Adjust the CL to avoid prehistoric site |
| VA-PI-121.000 | MVP-VRR3-116-1804 | 18 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-PI-046. Stay inside of survey corridor |
| VA-PI-124.000 | MVP-VRA3-037-1108 | 18.25 | - | - | Change PA-PI-046A to MLV 3 to be 12' wide and centered on CL of easement |
| VA-PI-125.000 VA-PI-128.000 | MVP-VRA3-116-1805 | 18.65 | - | - | Delete TA-PI-048 |
| VA-PI-140.000 | MVP-VRR3-116-1806 | 19.5 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-PI-049. Stay inside of survey corridor |
| VA-PI-152.000 | MVP-VRR3-059-1503 | 20 | - | - | Groundbed 2, Alt 2 seem to have power nearby. Please call this "Groundbed 2, Alternate 2" |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-151.000.RC | MVP-VRA3-059-1500 | 20 | - | - | Add gravel pad near the rectifier location for the operations pickup trucks |
| VA-PI-154.000 VA-PI-154.200 VA-PI-156.000.RC VA-PI-155.000 VA-PI-157.000 | MVP-VRR3-117-2206 | 20.2 | - | - | Extend TA-PI-051A to the property line. Give the property line a 1' buffer. Stay on VA-PI-154.000, VA-PI-154.200 |
| VA-PI-154.000 | MVP-VRA3-123-1458 | 20.2 | - | - | Trim TWS to stay 26' away from the residence |
| VA-PI-154.200 | MVP-VRA3-127-1943 | 20.25 | - | - | Trim TWS to be 26' away from residence |
| VA-PI-154.200 | MVP-VRA3-126-1538 | 20.25 | - | - | Cut back some additional TWS to avoid car port not shown on IL but visible in custom Imagery and shot in by civil under MDS points. Give the carport a 5' buffer |
| VA-PI-160.000 | MVP-VRR3-117-2112 | 20.5 | - | - | Add ATWS 25' x 100' for pull off. Keep all on north east side and move the pull off north 100' |
| VA-PI-160.000 | MVP-VRR3-117-2110 | 20.5 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-PI-052. Stay inside of survey corridor |
| VA-PI-162.000.RC VA-PI-163.000 | MVP-VRR3-344-1427 | 21.1 | - | - | Extend PA-PI-053 to the public road |
| VA-PI-165.000 | MVP-VRA3-120-1437 | 21.6 | - | - | Remove ATWS 1168 because TA-PI-055 has been removed |
| VA-PI-165.000 VA-PI-165.100 | MVP-VRA3-117-2115 | 21.6 | - | - | Remove TA-PI-055 |
| VA-PI-169.000 | MVP-VRA3-098-1557 | 22 | - | - | Trim TWS to keep the 75' neck down |
| VA-PI-174.000 | MVP-VRR3-119-1620 | 23 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-061. Stay inside of survey corridor |
| VA-PI-172.000 | MVP-VRR3-119-1618 | 23 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-061. Stay inside of survey corridor |
| VA-PI-172.000 | MVP-VRR3-119-1619 | 23 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-061. Stay inside of survey corridor |
| VA-PI-178.100 | MVP-VRR3-117-2118 | 24 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-PI-063. Stay inside of survey corridor |
| VA-PI-178.000 | MVP-VRA3-117-2124 | 24.6 | - | - | Remove TA-PI-064 |
| VA-PI-180.000 | MVP-VRR3-117-2126 | 24.8 | - | - | Widen TA-PI-066 for safe vehicle transportation |
| VA-PI-180.000 NC-RO-001.000 | MVP-VRA3-117-2129 | 26 | - | - | Remove TA-PI-068 |
| NC-RO-001.000 | MVP-VRA3-116-1458 | 26.2 | - | - | Remove TA-RO-070 |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-004.000 | MVP-VRA3-042-1142 | 26.6 | 26.8 | 0.2 | Adjust CL to where the TWS is approx 8' from the existing facility fence post |
| NC-RO-004.000 | MVP-VRA3-116-1503 | 26.7 | - | - | Remove TA-RO-071 |
| NC-RO-004.000 | MVP-VRA3-059-1607 | 26.7 | - | - | Change ATWS 1211A from an ATWS to a turning flare of TA-RO-071 |
| NC-RO-004.000 | MVP-VRA3-059-1604 | 26.7 | - | - | Change ATWS 1209A from an ATWS to a turning flare of TA-RO-071 |
| NC-RO-005.000 NC-RO-004.000 | MVP-VRR3-063-1316 | 26.9 | 27.1 | 0.2 | Adjust the CL south because of Williams pipeline crosses in this same area, change the Non working side to the north for the crossing. Changes per field meeting with Williams Transco personnel. |
| NC-RO-005.000 | MVP-VRR3-116-1518 | 27 | - | - | Reroute TA-RO-072A |
| NC-RO-005.000 | MVP-VRA3-115-1257 | 27 | - | - | Combine ATWS 1213 and 1213F to be 1 ATWS |
| NC-RO-005.000 | MVP-VRA3-063-1330 | 27 | - | - | Add ATWS for road crossing 100' wide |
| NC-RO-005.000 | MVP-VRA3-063-1331 | 27 | - | - | Move ATWS 1213 down to PI make the dimensions to be 200' x 100' |
| NC-RO-005.000 | MVP-VRA3-063-1337 | 27 | - | - | Change the working side to be on the south side of permanent ROW when crossing existing pipelines |
| NC-RO-005.000 | MVP-VRA3-063-1519 | 27 | - | - | Change the non working side to be on the north side of permanent ROW when crossing existing pipelines |
| NC-RO-005.000 | MVP-VRA3-063-1335 | 27 | - | - | Change TA-RO-073 to end at ATWS 1213. Delete ATWS 1213B |
| NC-RO-005.000 | MVP-VRA3-063-1333 | 27 | - | - | Move ATWS 1213A to PI |
| NC-RO-005.000 | MVP-VRA3-063-1334 | 27 | - | - | Extend TA-RO-072A to ATWS 1213A |
| NC-RO-005.000 | MVP-VRA3-116-1606 | 27.05 | - | - | Extension of TA-RO-072B to cover private road from TWS to ATWS 1213F due to removal of TA-RO-073 |
| NC-RO-005.000 | MVP-VRA3-115-1258 | 27.1 | - | - | Extend ATWS 1213A because of wetland |
| NC-RO-005.000 | MVP-VRA3-115-1300 | 27.1 | - | - | Trim ATWS 1213A to avoid the wetland. Give the wetland a 5' buffer because this ATWS is needed for crossing the existing pipelines |
| NC-RO-005.000 | MVP-VRA3-122-0939 | 27.1 | - | - | Delete ATWS 1213C |
| NC-RO-005.000 | MVP-VRA3-116-1520 | 27.15 | - | - | Remove ATWS 1213B |
| NC-RO-005.000 | MVP-VRA3-116-1554 | 27.15 | - | - | Remove TA-RO-073 |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|--|
| NC-RO-005.000 | MVP-VRA3-122-0940 | 27.25 | - | - | Reduce ATWS 1213D to 150 ft long from 280 ft long. Measuring on the short edge |
| NC-RO-005.000 NC-RO-006.000 | MVP-VRA3-116-1612 | 27.4 | - | - | Remove TA-RO-073A |
| NC-RO-006.000 | MVP-VRA3-032-1359 | 27.4 | - | - | Increase ATWS for more working area for stream crossing |
| NC-RO-006.000 | MVP-VRR3-116-1615 | 27.8 | - | - | Add ATWS 12.5' x 100' for pull off on the south of TA-RO-075. |
| NC-RO-006.000 | MVP-VRR3-116-1619 | 28.2 | - | - | Add ATWS 12.5' x 100' for pull off on the south of PA-RO-000. Stay inside of survey corridor |
| NC-RO-006.000 | MVP-VRR3-116-1617 | 28.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of PA-RO-000. Stay inside of survey corridor |
| NC-RO-006.000 NC-RO-007.000 | MVP-VRA3-087-1708 | 27.7 | 28.7 | 1 | <p>MP 27.40 to 28.30 When on the north west side of Williams Transco. Please see the survey points for the edge of their ROW. Adjust the route so that the TWS is at the edge of Williams Transco's ROW.</p> <p>MP 28.30 to 28.70 When on the south east side of Williams Transco. Please see the survey points for the edge of their ROW. Adjust the route so that the perm. ROW is butting up to the edge of their ROW.</p> <p>In locations that the edge of Williams Transco's ROW is unknown: Offset the CL of the closest pipe by 10' to the TWS. Making the CL of MVPSG to CL of their pipe 50'</p> <p>Changes per field meeting with Williams Transco personnel</p> |
| NC-RO-006.000 | MVP-VRR3-116-1622 | 28.6 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-076. Stay inside of survey corridor |
| NC-RO-007.000 | MVP-VRR3-116-2214 | 29.1 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-RO-078. Stay inside of survey corridor |
| NC-RO-007.000 NC-RO-007.200 NC-RO-009.000 NC-RO-010.000 | MVP-VRA3-067-1000 | 29.6 | - | - | Adjust TA-RO-079A to avoid tracts RO-007.200, 009.000, 010.000. Maintain road on NC-RO-007.000 only. |
| NC-RO-007.000 NC-RO-007.200 | MVP-VRR3-116-2217 | 29.65 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-079A. Stay inside of survey corridor |
| NC-RO-007.000 | MVP-VRA3-045-1240 | 29.85 | - | - | Add ATWS 25' Wide for pull back sections and boring operations |
| NC-RO-011.000 | MVP-VRR3-116-2220 | 29.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-080. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| NC-RO-011.000 | MVP-VRR3-116-2222 | 29.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-080. Stay inside of survey corridor |
| NC-RO-011.000 NC-RO-011.100 | MVP-VRR3-116-2227 | 29.9 | - | - | Widen PI in TA-RO-080 for safe vehicle transportation. Stay inside of survey corridor |
| NC-RO-011.000 NC-RO-011.100 | MVP-VRR3-116-2224 | 29.9 | - | - | Widen PI in TA-RO-080 for safe vehicle transportation. Stay inside of survey corridor |
| NC-RO-011.000 | MVP-VRA3-087-0936 | 29.9 | - | - | Trim ATWS 1247 to stay out of environmental buffer |
| NC-RO-011.000 | MVP-VRA3-059-1608 | 29.9 | - | - | Change ATWS 1247A from an ATWS to a turning flare of TA-RO-080 |
| NC-RO-011.000 | MVP-VRA3-130-1421 | 30 | - | - | Change TWS for HDD from 5' to 3' per FERC request |
| NC-RO-013.000 NC-RO-014.000 NC-RO-015.000 NC-RO-016.000 | MVP-VRA3-130-1423 | 30.2 | - | - | Change TWS for HDD from 5' to 3' per FERC request |
| NC-RO-014.000 NC-RO-015.000 | MVP-VRR3-088-1117 | 30.4 | - | - | Add ATWS for hydro test water storage |
| NC-RO-015.000 | MVP-VRR3-088-1120 | 30.4 | - | - | Add temporary access road for hydrotest |
| NC-RO-022.000 | MVP-VRA3-025-0829 | 30.9 | - | - | Add ATWS because of stream neck downs |
| NC-RO-033.000 | MVP-VRA3-116-2229 | 31.65 | - | - | Remove TA-RO-084 |
| NC-RO-038.100 | MVP-VRR3-116-2233 | 32.4 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-RO-085. Stay inside of survey corridor |
| NC-RO-038.000 | MVP-VRR3-116-2231 | 32.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-085. Stay inside of survey corridor |
| NC-RO-038.000 | MVP-VRR3-119-1652 | 32.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-085. Stay inside of survey corridor |
| NC-RO-038.000 | MVP-VRA3-116-2234 | 32.5 | - | - | Remove TA-RO-086 |
| NC-RO-040.000 | MVP-VRR3-116-2236 | 32.8 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-PI-087. Stay inside of survey corridor |
| NC-RO-039.000 | MVP-VRR3-116-2237 | 32.8 | - | - | Add ATWS 12.5' x 100' for pull off on the north of TA-RO-087. Stay inside of survey corridor |
| NC-RO-044.000 | MVP-VRR3-116-2239 | 33.6 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-088. Stay inside of survey corridor |
| NC-RO-044.000 | MVP-VRR3-116-2240 | 33.6 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-088. Stay inside of survey corridor |
| NC-RO-044.000 | MVP-VRR3-116-2242 | 33.6 | - | - | Widen PI on TA-RO-088 for safe vehicle transportation. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|--|
| NC-RO-047.300 | MVP-VRR3-116-2244 | 34.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-089. Stay inside of survey corridor |
| NC-RO-046.000 NC-RO-047.000 | MVP-VRA3-063-1223 | 34.1 | - | - | Remove TWS from this tract. Re-position onto NC-RO-047.000 if the area must be kept. Give the property line a 1' buffer |
| NC-RO-046.000 NC-RO-047.000 | MVP-VRA3-353-1601 | 34.1 | - | - | Add space for turning to TA-RO-089 for turning flare |
| NC-RO-053.000 | MVP-VRR3-119-1018 | 34.7 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-091. Stay inside of survey corridor |
| NC-RO-059.000 | MVP-VRR3-119-1020 | 35.45 | - | - | Add ATWS 12.5' x 200' for pull off on the south of TA-RO-092. Stay inside of survey corridor |
| NC-RO-059.000 NC-RO-058.000 | MVP-VRA3-119-1023 | 35.65 | - | - | Remove TA-RO-093 |
| NC-RO-059.000 | MVP-VRA3-340-1149 | 35.65 | - | - | Add flare to TA-RO-093 |
| NC-RO-058.000 NC-RO-059.000 | MVP-VRR3-119-1026 | 35.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-094. Stay inside of survey corridor |
| NC-RO-061.000 NC-RO-061.000.RC | MVP-VRA3-119-1028 | 36.2 | - | - | Remove TA-RO-095 |
| NC-RO-067.000 NC-RO-068.000 | MVP-VRA3-119-1030 | 36.75 | - | - | Remove TA-RO-099 |
| NC-RO-069.000 | MVP-VRA3-080-1335 | 37 | - | - | LO request adjustment to access road to avoid recently planted trees. |
| NC-RO-069.000 | MVP-VRR3-119-1032 | 37.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-100. Stay inside of survey corridor |
| NC-RO-077.000 | MVP-VRR3-119-1037 | 37.6 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-102. Stay inside of survey corridor |
| NC-RO-080.000 | MVP-VRA3-058-1427 | 37.8 | - | - | Trim ATWS 1324A to be 25' away from existing pipelines |
| NC-RO-080.000 | MVP-VRA3-058-1429 | 37.81 | - | - | Trim ATWS 1326 to be 25' away from existing pipelines |
| NC-RO-080.000 NC-RO-082.000 NC-RO-083.000 | MVP-VRA3-058-1431 | 37.9 | - | - | Trim TWS to be 10' off set from existing pipeline |
| NC-RO-085.000 | MVP-VRR3-119-1040 | 38.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-103. Stay inside of survey corridor. Also please move this pull off south due to the cemetery in this same area |
| NC-RO-085.000 | MVP-VRR3-119-1038 | 38.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-103. Stay inside of survey corridor |
| NC-RO-087.000 NC-RO-088.000 | MVP-VRA3-049-1100 | 38.2 | - | - | Add ATWS 100' wide for crossing of foreign pipelines |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-087.000 NC-RO-088.000 | MVP-VRA3-049-1102 | 38.2 | - | - | Move ATWS 1330 to the east side |
| NC-RO-089.000 | MVP-VRA3-119-1041 | 38.55 | - | - | Remove TA-RO-104 |
| NC-RO-090.000 | MVP-VRA3-119-1043 | 38.8 | - | - | Add RCE from Crutchfield Rd to ATWS 1336 abutting TWS. RCE entrance to be across from TA-RO-106. |
| NC-RO-091.000 | MVP-VRA3-119-1046 | 38.9 | - | - | Shorten TA-RO-106 to meet western edge of ATWS 1338 and ATWS 1339. |
| NC-RO-094.000 NC-RO-094.100 | MVP-VRA3-119-1653 | 39.4 | - | - | Trim TA-RO-107 to stop at TA-RO-108 |
| NC-RO-094.200 NC-RO-094.300 | MVP-VRA3-353-1605 | 39.4 | - | - | Add space for turning to TA-RO-107 |
| NC-RO-100.100 | MVP-VRR3-119-0934 | 39.7 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-109. Stay inside of survey corridor |
| NC-RO-100.000 NC-RO-097.000.RR NC-RO-100.100 | MVP-VRA3-085-0834 | 39.7 | - | - | Change PA-RO-109 to a temporary access road, TA-RO-109. At one point this permanent access road went to a ground bed. This ground bed location is no longer in consideration but the access road is needed for boring operations |
| NC-RO-100.100 NC-RO-097.000.RR | MVP-VRA3-058-1409 | 39.7 | - | - | Remove PA-RO-109 from impacting tract NC-RO-100.100, make edge of property to CL of access road 15' making the distance to edge of access road 2.5' |
| NC-RO-101.000 NC-RO-103.000 NC-RO-104.000 NC-RO-102.000 | MVP-VRR3-098-0836 | 40.3 | 40.4 | 0.1 | Reroute to avoid impacts to Ore property onto willing landowner |
| NC-RO-102.000 | MVP-VRA3-127-1945 | 40.3 | - | - | Trim TWS to be 26' away from residence |
| NC-RO-102.000 | MVP-VRA3-121-1112 | 40.3 | - | - | Make the access rd 50 foot wide with a 75 foot flare so we can get large trucks in there for off load of bore equipment and pipe. The road is very narrow (hence the name) and if we don't have a wide area to turn into, a large truck cannot swing wide enough to enter. Stay inside of survey corridor |
| NC-RO-102.000 NC-RO-104.000 | MVP-VRA3-121-1113 | 40.3 | - | - | Trim TWS off of NC-RO-104.000. Give the property a 1' buffer for the TWS, the perm. ROW will still impact this property |
| NC-RO-105.000 | MVP-VRA3-120-1230 | 40.35 | - | - | Add ATWS but stay inside of survey corridor for Ore Reroute |
| NC-RO-105.000 | MVP-VRA3-120-1232 | 40.35 | - | - | Add ATWS but stay inside of survey corridor for Ore Reroute |
| NC-RO-105.000 | MVP-VRA3-120-1229 | 40.4 | 40.5 | 0.1 | Adjust route to avoid landowner leech field (Strader) |
| NC-RO-105.000 | MVP-VRA3-120-1234 | 40.4 | - | - | Add ATWS but stay inside of survey corridor for Ore Reroute |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-105.000 | MVP-VRA3-120-1233 | 40.4 | - | - | Add ATWS but stay inside of survey corridor for Ore Reroute |
| NC-RO-105.000 | MVP-VRA3-058-1433 | 40.4 | - | - | Trim TWS only to be 25' away from power pole |
| NC-RO-108.000 | MVP-VRR3-119-0936 | 40.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-111. Stay inside of survey corridor |
| NC-RO-109.000 | MVP-VRR3-119-0937 | 40.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-111. Stay inside of survey corridor |
| NC-RO-109.000 | MVP-VRR3-119-0938 | 40.9 | - | - | Add ATWS 25' x 100' for pull off. Keep it all on the north side of TA-RO-111. Stay inside of survey corridor |
| NC-RO-105.000 NC-RO-105.100 | MVP-VRA3-085-0947 | 40.9 | - | - | Remove this part of TA-RO-111. Give the property line of NC-RO-108.000 a 120' buffer Chicken farm road is a public road to approximately the west property line of NC-RO-108.000 at this point it becomes private |
| NC-RO-108.000 | MVP-VRA3-353-1606 | 40.9 | - | - | Add space for turning to TA-RO-111 for turning flare |
| NC-RO-108.000 | MVP-VRA3-353-1607 | 40.9 | - | - | Add space for turning to TA-RO-111 for turning flare |
| NC-RO-111.000 | MVP-VRR3-119-0940 | 41.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of PA-RO-112. Stay inside of survey corridor |
| NC-RO-111.000 | MVP-VRR3-119-0939 | 41.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-112. Stay inside of survey corridor |
| NC-RO-112.000 NC-RO-112.100 | MVP-VRR3-080-1327 | 41.7 | - | - | LO Request that we adjust the Access road to better fit his desires on the property. states anything that is currently seen on the aerial photo is or will be moved if necessary. |
| NC-RO-112.000 | MVP-VRR3-119-0944 | 41.8 | - | - | Add ATWS 12.5' x 100' for pull off on the south of PA-RO-113A. Stay inside of survey corridor. Move this pull of east to the property line, give the property line a 1' buffer |
| NC-RO-112.000 | MVP-VRR3-119-0943 | 41.8 | - | - | Add ATWS 25' x 100' for pull off. Flip the pull off to north side of PA-RO-113A. Stay inside of survey corridor |
| NC-RO-112.000 | MVP-VRA3-100-1700 | 41.8 | - | - | Delete Groundbed 3, Alternate 1 |
| NC-RO-112.000 NC-RO-112.100 | MVP-VRA3-128-1037 | 41.8 | - | - | Change PA-RO-113A to a temporary access road |
| NC-RO-112.200 | MVP-VRA3-037-1110 | 42.2 | - | - | Change PA-RO-114A to MLV 5 to be 12' wide and centered on CL of easement |
| NC-RO-117.000 NC-RO-117.100 | MVP-VRR3-119-0945 | 42.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-115. Stay inside of survey corridor |
| NC-RO-117.250 | MVP-VRA3-087-1014 | 43.1 | - | - | Trim TWS to avoid car port and water well. Give the car port and water well a 5' buffer |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-RO-118.000 | MVP-VRA3-087-0938 | 43.1 | - | - | Extend ATWS 1384 for boring operations |
| NC-RO-117.000.RC NC-RO-118.000 NC-RO-117.250 | MVP-VRA3-119-1239 | 43.15 | - | - | Add RCE |
| NC-RO-122.000 NC-RO-122.100 | MVP-VRA3-119-1241 | 43.15 | - | - | Add RCE |
| NC-RO-117.000.RC NC-RO-117.250 | MVP-VRA3-087-1721 | 43.15 | - | - | Trim TWS to avoid car port, water well and driveway Give the car port and water well a 5' buffer |
| NC-RO-121.000 NC-RO-122.000 NC-RO-117.000.RC | MVP-VRA3-119-1243 | 43.2 | - | - | Remove TA-RO-115A |
| NC-RO-122.000 NC-RO-122.100 NC-RO-124.000.RC | MVP-VRA3-119-1247 | 43.4 | - | - | Add RCE |
| NC-RO-122.000 NC-RO-122.100 NC-RO-124.000.RC | MVP-VRA3-119-1249 | 43.4 | - | - | Remove TA-RO-117 |
| NC-RO-122.000 NC-RO-122.100 NC-RO-124.000.RC | MVP-VRA3-119-1251 | 43.4 | - | - | Remove TA-RO-118 |
| NC-RO-122.000 NC-RO-122.100 NC-RO-124.000.RC | MVP-VRA3-119-1245 | 43.4 | - | - | Add RCE |
| NC-RO-133.000 | MVP-VRR3-119-1305 | 43.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-119. Stay inside of survey corridor |
| NC-RO-133.000 | MVP-VRR3-119-1259 | 43.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-119. Stay inside of survey corridor |
| NC-RO-133.000 | MVP-VRR3-119-1306 | 44.1 | - | - | Add ATWS 12.5' x 100' for pull off on the south of TA-RO-122. Stay inside of survey corridor |
| NC-RO-138.000 | MVP-VRA3-119-1700 | 44.8 | - | - | Remove TA-RO-124 |
| NC-RO-138.000 | MVP-VRA3-107-0917 | 44.9 | - | - | Delete Groundbed 3 on the north side of the road. The new groundbed 3 will be on the south side of the road |
| NC-RO-139.000 | MVP-VRA3-077-1416 | 44.9 | - | - | Deep Anode Bed 3 Location: 36.331227, -79.601542 *Note: GPS location is approximate groundbed will be within 30' x 30' gravel pad at a location where drilling rig does not interfere with overhead power lines. Please call this "Groundbed 3" |
| NC-RO-139.000 | MVP-VRA3-077-1419 | 44.9 | - | - | Gravel pull off |
| NC-RO-138.000 | MVP-VRA3-107-0918 | 44.9 | - | - | Move PA-RO-124A to the other side of the road |
| NC-RO-139.000 | MVP-VRR3-119-1308 | 45.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-126. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|-----------------------------------|-------------------|------------------|----------------|----------------|---|
| NC-RO-140.000 | MVP-VRA3-107-0841 | 45.5 | - | - | ATWS 1415 is on a steep sloped LO has concerns about erosion. Has requested ATWS be moved to the indicated location. This has been reviewed and discussed with Dave Embry |
| NC-RO-142.000 NC-RO-143.000 | MVP-VRR3-080-1329 | 46 | 46.3 | 0.3 | LO request that we adjust to be as close to the existing corridor as possible. |
| NC-RO-143.400 | MVP-VRR3-119-1309 | 46.1 | - | - | Add ATWS 25' x 100' for pull off. Keep all of pull off on the west side of TA-RO-127. |
| NC-RO-143.000 | MVP-VRR3-119-1310 | 46.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-127. Stay inside of survey corridor |
| NC-RO-143.400 | MVP-VRA3-340-1319 | 46.1 | - | - | Add flare to TA-RO-127 at public road |
| NC-RO-148.505 NC-RO-148.515 | MVP-VRR3-119-1311 | 46.75 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-129. Stay inside of survey corridor and move east to stay out of enviromental buffer |
| NC-RO-149.100 | MVP-VRR3-119-1313 | 47.3 | - | - | Add ATWS 12.5' x 100' for pull off on the east of TA-RO-130. Stay inside of survey corridor |
| NC-RO-149.100 | MVP-VRR3-119-1312 | 47.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-130. Stay inside of survey corridor |
| NC-RO-157.000 NC-RO-157.000.RC | MVP-VRA3-119-1316 | 48.2 | - | - | Add RCE |
| NC-RO-156.000 NC-RO-157.000 | MVP-VRA3-119-1314 | 48.2 | - | - | Remove TA-RO-131 |
| NC-RO-157.000.RC NC-RO-160.000 | MVP-VRA3-119-1317 | 48.4 | - | - | Add RCE |
| NC-RO-159.000 NC-RO-160.000 | MVP-VRR3-063-1229 | 48.5 | - | - | LO request change in Access Rd to line shown. Can go west to the ROW or back East to the existing road. |
| NC-RO-159.000 NC-RO-160.000 | MVP-VRA3-119-1321 | 48.5 | - | - | Remove TA-RO-133. Access via RCE |
| NC-RO-160.000 NC-RO-162.000 | MVP-VRA3-106-1505 | 48.5 | - | - | Delete ATWS 1447 because the access road is being changed |
| NC-RO-160.000 | MVP-VRA3-106-1504 | 48.5 | - | - | Add ATWS because the access road is being changed |
| NC-RO-162.000 NC-RO-163.000 | MVP-VRA3-052-1304 | 49.1 | - | - | Trim ATWS 1451 to avoid NC-RO-163.000, give a 1' buffer to the property line |
| NC-RO-164.000 NC-RO-165.000 | MVP-VRA3-058-1436 | 49.15 | - | - | Trim TWS and ATWS to be 25' away from power pole |
| NC-RO-165.000 | MVP-VRR3-119-1319 | 49.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-135. Stay inside of survey corridor |
| NC-RO-165.000 | MVP-VRA3-025-0858 | 49.3 | - | - | Trim ATWS to be outside of environmental buffer |
| NC-RO-168.000.RC | MVP-VRA3-119-1323 | 49.5 | - | - | Add RCE |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-RO-168.000.RC | MVP-VRA3-119-1324 | 49.5 | - | - | Add RCE |
| NC-RO-167.000 NC-RO-168.000 NC-RO-168.000.RC | MVP-VRA3-119-1325 | 49.5 | - | - | Remove TA-RO-136 |
| NC-RO-169.000 | MVP-VRA3-058-1607 | 49.55 | - | - | Trim ATWS 1457 at tree line to stay outside of power line ROW |
| NC-RO-170.000 | MVP-VRR3-119-1327 | 49.8 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-138. Stay inside of survey corridor |
| NC-RO-170.000 | MVP-VRA3-340-1452 | 49.8 | - | - | Add flare TA-RO-138 at public road |
| NC-RO-170.000 NC-RO-171.000 NC-RO-172.000 NC-RO-173.000 NC-RO-174.000 NC-RO-175.000 NC-RO-177.000 NC-RO-178.000 NC-RO-179.000 NC-RO-180.000 NC-RO-181.000 | MVP-VRA3-087-1019 | 49.7 | 51.6 | 1.9 | Adjust the route to be outside of Duke's ROW Please see PDF with dimensions of their ROW that is located in the folder for this modification |
| NC-RO-174.200 NC-RO-174.400 | MVP-VRR3-119-1328 | 50.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-139. Stay inside of survey corridor |
| NC-RO-174.000 | MVP-VRR3-119-1329 | 50.3 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-RO-139. Stay inside of survey corridor |
| NC-RO-179.000 | MVP-VRA3-025-0903 | 50.7 | - | - | Trim TWS and move ATWS to be outside of environmental buffer |
| NC-RO-179.000 | MVP-VRA3-025-0901 | 50.7 | - | - | Move ATWS outside of environmental buffer |
| NC-RO-183.000 | MVP-VRA3-353-1614 | 51.7 | - | - | Add space for turning to TA-RO-142 for turning flare |
| NC-GU-001.000 NC-RO-181.000 NC-RO-186.000 | MVP-VRR3-058-1608 | 52.3 | 52.5 | 0.2 | Adjust CL to cross the Transmission power lines between the towers |
| NC-AL-000.060 NC-AL-000.060.RC NC-AL-000.065 | MVP-VRA3-118-2043 | 53.3 | - | - | Add RCE to both sides of workspace |
| NC-AL-000.060 NC-AL-000.060.RC NC-AL-000.065 | MVP-VRA3-118-2045 | 53.3 | - | - | Move RCE closer to Row and add to both sides of workspace |
| NC-AL-000.065 | MVP-VRA3-071-0825 | 53.35 | - | - | Add TWS |
| NC-AL-001.000 NC-AL-000.065 | MVP-VRA3-118-2047 | 53.5 | - | - | Remove TA-AL-152 |
| NC-AL-003.000 | MVP-VRR3-119-2055 | 53.8 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-153. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| NC-AL-006.000 NC-AL-006.100 | MVP-VRR3-118-2049 | 54.25 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-AL-154. Stay inside of survey corridor. Move north 40' |
| NC-AL-006.000 NC-AL-006.100 | MVP-VRR3-063-1231 | 54.3 | - | - | LO has requested that TA-AL-154 be changed to the shown route and the remainder of the road be deleted. |
| NC-AL-008.100 | MVP-VRR3-118-2050 | 54.7 | - | - | Add ATWS 25' x 100' for pull off. Keep all of pull off on the west side of TA-AL-155. Stay inside of survey corridor |
| NC-AL-006.000 NC-AL-006.100 NC-AL-008.100 | MVP-VRR3-067-1007 | 54.7 | - | - | Landowner offers this route as an alternate to TA-AL-154/155. New road to be completely on AL-008.100. This new road and VRR3-063-1231 will replace TA-AL-154/155 |
| NC-AL-009.000 NC-AL-009.000.RC | MVP-VRA3-118-2051 | 55.05 | - | - | Add access road. RCE will be needed on both side of road |
| NC-AL-010.000 | MVP-VRA3-037-1111 | 55.1 | - | - | Change PA-AL-155A to MLV 6 to be 12' wide and centered on CL of easement |
| NC-AL-018.000 | MVP-VRA3-118-2053 | 55.6 | - | - | Widen TA-AL-157 |
| NC-AL-027.000 NC-AL-028.000 | MVP-VRA3-118-2054 | 56.3 | - | - | Remove TA-AL-159 |
| NC-AL-033.000 | MVP-VRR3-118-2056 | 56.9 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-159A. Stay inside of survey corridor. Move south east 125' to avoid tree clearing on the east side |
| NC-AL-033.000 | MVP-VRA3-011-1011 | 56.9 | - | - | Add area TA-AL-159A for turning flare |
| NC-AL-042.000 NC-AL-043.000 | MVP-VRA3-073-1106 | 57.5 | - | - | Move ATWS 1533 out of environmental buffer |
| NC-AL-043.000.RC | MVP-VRA3-340-1544 | 57.7 | - | - | Add flare to TA-AL-161 at public road |
| NC-AL-043.000 NC-AL-044.000 | MVP-VRR3-118-2057 | 57.75 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-AL-161. Stay inside of survey corridor |
| NC-AL-043.000 NC-AL-044.000 | MVP-VRA3-127-1948 | 57.8 | - | - | Trim ATWS 1536 to be 26' away from residence |
| NC-AL-046.000 | MVP-VRR3-118-2058 | 58.1 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-162. Stay inside of survey corridor |
| NC-AL-046.000 | MVP-VRR3-118-2059 | 58.1 | - | - | Adjust TA-AL-162 over if possible |
| NC-AL-050.100 | MVP-VRR3-118-2101 | 58.4 | - | - | Add ATWS 25' x 100' for pull off. Keep all of the pull off on the east side TA-AL-163. Stay inside of survey corridor |
| NC-AL-050.100 | MVP-VRA3-340-1611 | 58.4 | - | - | Add flare to TA-AL-163 at public road |
| NC-AL-052.000 | MVP-VRA3-340-1612 | 58.6 | - | - | Add flare to PA-AL-164 at public road |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-AL-052.000 NC-AL-052.100 | MVP-VRA3-118-2102 | 58.8 | - | - | Remove PA-AL-164 |
| NC-AL-052.000 | MVP-VRA3-059-0949 | 58.8 | - | - | Change PA-AL-164 to a temporary access road |
| NC-AL-066.000 NC-AL-067.000 | MVP-VRA3-118-2107 | 60 | - | - | Remove TA-AL-165 |
| NC-AL-066.000 NC-AL-066.000.RC NC-AL-067.000 | MVP-VRA3-118-2104 | 60 | - | - | Add RCE |
| NC-AL-066.000 NC-AL-066.000.RC NC-AL-067.000 | MVP-VRA3-118-2106 | 60 | - | - | Add RCE |
| NC-AL-067.001 NC-AL-068.000 NC-AL-068.000.RC | MVP-VRA3-118-2109 | 60.25 | - | - | Add RCE |
| NC-AL-068.000.RC NC-AL-069.000 | MVP-VRA3-118-2110 | 60.25 | - | - | Add RCE |
| NC-AL-070.000 NC-AL-071.000 NC-AL-072.000 NC-AL-074.000 | MVP-VRA3-052-1605 | 60.4 | - | - | Trim TWS to avoid tract NC-AL-071.000 and NC-AL-072.000, give the property line a 1' buffer |
| NC-AL-076.100 | MVP-VRR3-118-2112 | 61.15 | - | - | Add ATWS 12.5' x 100' for pull off on the west of TA-AL-167. Stay inside of survey corridor |
| NC-AL-081.000 | MVP-VRR3-118-2113 | 61.15 | - | - | Add ATWS 12.5' x 200' for pull off on the west of TA-AL-168. Stay inside of survey corridor |
| NC-AL-076.100 NC-AL-076.600 | MVP-VRR3-052-1608 | 61.15 | - | - | Adjust TA-AL-167 to avoid NC-AL-076.600, give the property line a 1' buffer and wait for property boundary to be set |
| NC-AL-081.000 | MVP-VRA3-118-2115 | 61.55 | - | - | Widen TA-AL-168 PI |
| NC-AL-086.000 | MVP-VRR3-118-2116 | 62.4 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-169. Move west 80' to avoid tree clearing, and structure. When moving pull off please do not impact power pole. Stay inside of survey corridor |
| NC-AL-088.000 | MVP-VRA3-049-1326 | 62.8 | - | - | Trim ATWS 1575 to stay off of NC-AL-088.000. Give the property a 1' buffer |
| NC-AL-098.000 | MVP-VRR3-289-0846 | 63.25 | - | - | Relocate access road TA-AL-171 so it doesn't go past land owners house |
| NC-AL-101.000 NC-AL-102.000 | MVP-VRA3-088-1634 | 63.4 | - | - | Relocate access road TA-AL-171 to MP 63.25 that will be on NC-AL-098.000, so it doesn't go past land owners house |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 NC-AL-102.000 | MVP-VRA3-130-1426 | 63.5 | - | - | Change TWS for HDD from 5' to 3' |
| NC-AL-104.000 | MVP-VRA3-130-1428 | 63.7 | - | - | Change TWS for HDD from 5' to 3' |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-AL-103.000 | MVP-VRA3-112-1332 | 64 | - | - | Trim TWS to be outside of environmental buffer |
| NC-AL-106.000 | MVP-VRA3-112-1333 | 64.05 | - | - | Trim TWS to be outside of environmental buffer |
| MVF-NC-AL-005.000.RC MVF-NC-AL-007.000 | MVP-VRA3-118-2119 | 64.8 | - | - | Add RCE |
| MVF-NC-AL-005.000.RC MVF-NC-AL-007.000 | MVP-VRA3-118-2117 | 64.8 | - | - | Add RCE |
| MVF-NC-AL-007.000 | MVP-VRA3-100-1701 | 64.8 | - | - | Delete Groundbed 4, Alternate 1 |
| NC-AL-120.000 | MVP-VRA3-025-0909 | 65.65 | - | - | Trim TWS to be outside of environmental buffer |
| FA3-AL-008.000 FA3-AL-009.000 | MVP-VRA3-029-0944 | 66.6 | - | - | Trim TWS to make a 75' neck down |
| FA3-AL-010.200 FA3-AL-010.300 FA3-AL-010.000 FA3-AL-010.100 | MVP-VRA3-114-1235 | 66.7 | - | - | Delete TA-AL-179A |
| FA3-AL-010.300 | MVP-VRA3-353-1617 | 66.7 | - | - | Add space for turning to TA-AL-179A for turning flare |
| FA3-AL-010.300 | MVP-VRA3-353-1618 | 66.7 | - | - | Add space for turning to TA-AL-179A for turning flare |
| FA3-AL-010.200 | MVP-VRA3-340-1624 | 66.7 | - | - | Add flare to TA-AL-179A at public road |
| NC-AL-127.000 NC-AL-128.000 NC-AL-129.000 NC-AL-132.000 NC-AL-133.000 NC-AL-134.000 NC-AL-135.000 NC-AL-136.000 NC-AL-137.000 | MVP-VRR3-108-1000 | 66.7 | 67.5 | 0.8 | Reroute to reduce impacts to East Alamance Quarry, Martin Marietta Materials Inc., |
| NC-AL-131.000 NC-AL-132.000 | MVP-VRR3-114-1238 | 67 | - | - | Add temporary access road |
| FA3-AL-009.000 FA3-AL-010.000 NC-AL-128.000 NC-AL-127.000 NC-AL-129.000 NC-AL-131.000 NC-AL-132.000 NC-AL-133.000 NC-AL-136.000 | MVP-VRA3-114-1412 | 67 | - | - | Make the new survey corridor's west edge 90' from the CL and the east edge to be 110' from CL. In locations where there is ATWS the survey corridor shall be expanded to the extents of the ATWS |
| NC-AL-132.100 | MVP-VRR3-118-2122 | 67.3 | - | - | Add ATWS 12.5' x 100' for pull off on the north of TA-AL-180. Stay inside of survey corridor |
| NC-AL-135.000 NC-AL-136.000 | MVP-VRA3-052-1611 | 67.6 | - | - | Trim ATWS 1619 to avoid NC-AL-136.000, give the property line a 1' buffer and wait for the property boundary to be set |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| NC-AL-135.000 | MVP-VRA3-087-1015 | 67.6 | - | - | Trim ATWS 1619A to stay out of environmental buffer |
| NC-AL-136.000 NC-AL-137.000 | MVP-VRR3-118-2123 | 68 | - | - | Add ATWS 25' x 100' for pull off. Keep pull off all north of TA-AL-181. Stay inside of survey corridor |
| NC-AL-139.000 | MVP-VRA3-340-1632 | 68 | - | - | Add flare to TA-AL-181 at public road |
| NC-AL-143.300 | MVP-VRR3-118-2125 | 68.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-181A. Stay inside of survey corridor |
| NC-AL-143.000 | MVP-VRR3-118-2126 | 68.2 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-181A. Stay inside of survey corridor |
| NC-AL-142.000 NC-AL-143.000 | MVP-VRA3-114-1146 | 68.2 | - | - | Delete MLV 7 it will be moved to south of Haw River Hopedale Rd |
| NC-AL-142.000 NC-AL-143.000 | MVP-VRA3-100-1702 | 68.2 | - | - | Delete Groundbed 4, Alternate 2 |
| NC-AL-143.400 | MVP-VRA3-340-1634 | 68.2 | - | - | Add flare to PA-AL-181A at public road |
| NC-AL-143.000 NC-AL-143.100 NC-AL-143.200 NC-AL-143.300 NC-AL-143.400 | MVP-VRA3-050-0915 | 68.25 | - | - | Change PA-AL-181A to a temporary access road, keep the width of the AR 25' |
| NC-AL-144.000.RC NC-AL-148.000 | MVP-VRA3-114-1150 | 68.7 | - | - | Add PAR, 12' wide and centered on the CL of easement |
| NC-AL-148.000 | MVP-VRA3-114-1148 | 68.7 | - | - | Move MLV 7 to south of Haw River Hopedale Rd. |
| NC-AL-149.000 | MVP-VRR3-118-2127 | 68.95 | - | - | Add ATWS 25' x 100' for pull off. Keep pull off all south of TA-AL-185. Stay inside of survey corridor |
| NC-AL-150.000 | MVP-VRA3-123-1504 | 69.1 | - | - | Trim ATWS 1649 to stay 26' away from the residence |
| NC-AL-154.000 NC-AL-164.000 | MVP-VRA3-067-1524 | 69.3 | - | - | Trim ATWS 1651 to stay off of NC-AL-165.000.AR. Give the property line a 1' buffer |
| NC-AL-154.000 | MVP-VRA3-067-1626 | 69.3 | - | - | Extend ATWS 1651 |
| NC-AL-162.000 NC-AL-165.000 NC-AL-161.000 | MVP-VRA3-067-1525 | 69.4 | - | - | Trim ATWS 1652 to stay off of NC-AL-165.000.AR. Give the property line a 1' buffer |
| NC-AL-163.000 NC-AL-163.100 | MVP-VRA3-052-1612 | 69.45 | - | - | Trim TWS to avoid NC-AL-163.100, give the property line a 1' buffer |
| NC-AL-165.000 | MVP-VRR3-118-2129 | 69.5 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-187. Stay inside of survey corridor |
| NC-AL-165.000 | MVP-VRR3-118-2128 | 69.5 | - | - | Add ATWS 25' x 100' for pull off. Split the pull off to 12.5' on both sides of TA-AL-187. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|--|
| NC-AL-166.000 NC-AL-167.000 | MVP-VRR3-118-2131 | 69.5 | - | - | Adjust TA-AL-187 |
| NC-AL-166.000 NC-AL-167.000 | MVP-VRA3-067-1527 | 69.5 | - | - | Trim ATWS 1653 to stay off of NC-AL-167.000. Give the property line a 1' buffer |
| NC-AL-166.000.RC | MVP-VRA3-340-1637 | 69.5 | - | - | Add flare to TA-AL-187 at public road |
| NC-AL-170.300 NC-AL-179.000 NC-AL-180.000 NC-AL-181.000 | MVP-VRA3-011-0846 | 69.7 | - | - | Trim ATWS to stay outside of the environmental buffer and neck down the TWS to 75' |
| NC-AL-181.000 | MVP-VRA3-011-0844 | 69.7 | - | - | Extend ATWS for additional construction workspace |
| NC-AL-179.000 NC-AL-180.000 NC-AL-181.000 | MVP-VRA3-127-1950 | 69.8 | - | - | Trim ATWS 1653C and TWS to be 26' away from residence |
| NC-AL-182.000 NC-AL-183.000 NC-AL-184.000 | MVP-VRA3-116-1645 | 69.8 | - | - | Add access road |
| NC-AL-191.300 NC-AL-191.100 | MVP-VRA3-067-1014 | 71 | - | - | Delete Access road TA-AL-188 this has been determined to be a public road. Give the property line a 10' buffer |
| NC-AL-192.000 | MVP-VRA3-353-1620 | 71.5 | - | - | Add space for turning to TA-AL-190 for turning flare |
| NC-AL-192.000 | MVP-VRA3-340-1642 | 71.55 | - | - | Add flare to TA-AL-190 at public road |
| NC-AL-199.000 | MVP-VRA3-340-1645 | 72.4 | - | - | Add flare to TA-AL-193 at public road |
| NC-AL-203.000 NC-AL-204.000 | MVP-VRA3-087-1809 | 72.7 | 72.8 | 0.1 | Landowner request that pipeline be moved as far away from home as possible. It was explained that we would consider this move but only to the point we do not impact any additional landowners Give the property corner of NC-AL-202.000 a 1' puffer with the perm. ROW |
| NC-AL-203.000 | MVP-VRA3-087-1814 | 72.8 | - | - | Trim TWS to avoid NC-AL-202.000.ABU. Give the property line a 1' buffer |
| NC-AL-203.000 | MVP-VRA3-087-1815 | 72.8 | - | - | Trim TWS to avoid NC-AL-202.000.ABU. Give the property line a 1' buffer |
| NC-AL-203.000 | MVP-VRA3-087-1811 | 72.8 | - | - | Add ATWS to compensate for the loss of TWS on the East side |
| NC-AL-203.000 NC-AL-204.000 | MVP-VRA3-086-1034 | 72.8 | - | - | Add TWS back in because the delineated stream S-A18-118 does not cross the LOD |
| NC-AL-204.000 NC-AL-205.000 NC-AL-206.000 NC-AL-207.000 NC-AL-210.000 | MVP-VRR3-100-1449 | 72.8 | 73 | 0.2 | Adjust CL to the west of current route. Previous alignment would be unable to cross road and existing foreign line that resides within shoulder of major road. New alignment allows space to safely cross road and then foreign line. |
| NC-AL-206.000 NC-AL-208.000 | MVP-VRA3-065-1637 | 72.9 | - | - | Extend survey corridor because of reroutes |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|--|
| FA5-AL-025.000 NC-AL-210.000 | | | | | |
| NC-AL-207.000 NC-AL-208.000 | MVP-VRA3-052-1614 | 72.9 | - | - | Trim ATWS 1691 to avoid NC-AL-208.000, give the property line a 1' buffer and wait for property boundary to be set |
| NC-AL-210.000 | MVP-VRA3-045-1242 | 73.1 | - | - | Trim ATWS to be outside of the environmental buffer |
| VA-PI-001.000 VA-PI-002.015 | MVP-VRA3-119-1516 | CY-01 | - | - | Trim CY-01 to MDS points canopy line and the tree line observations from bio. Please use the points (MDS or bio.) that are closer to the center of the contractor yard. The KMZ of bio's tree line observation is in the same folder as this modification please see the link to file. |
| VA-PI-142.200 | MVP-VRA3-112-1225 | CY-03 | - | - | Trim CY-03 to be outside of environmental buffer |
| VA-PI-142.200 | MVP-VRA3-112-1227 | CY-03 | - | - | Trim CY-03 to be outside of environmental buffer |
| NC-RO-014.600 | MVP-VRA3-122-1615 | CY-04 | - | - | Delete CY-04 due to proximity to church and zoning issues. |
| NC-RO-001.600.CY05A NC-RO-001.700.CY05A NC-RO-001.800.CY05A | MVP-VRR3-351-0908 | CY-05A | - | - | CY-05A optional storage/contractor yard |
| NC-RO-001.600.CY05A NC-RO-001.700.CY05A NC-RO-001.800.CY05A | MVP-VRA3-122-1634 | CY-05A | - | - | Delete CY-05A. Multiple power lines on east side of property, wetland running through west side of property |
| NC-RO-014.200.CY06 | MVP-VRA3-354-1613 | CY-06 | - | - | Remove this part of CY-06 to stay off of NC-RO-014.200.CY06 |
| NC-GU-001.200 | MVP-VRA3-122-1636 | CY-09 | - | - | Delete CY-09. Small green field tract, not close to project. |
| Durham, North Carolina | MVP-VRR3-344-0827 | CY-15 | - | - | CY-15 optional storage/contractor yard |
| | MVP-VRA3-122-1637 | CY-15 | - | - | Delete CY-15. Due to goose creek running through entire property |
| Durham, North Carolina | MVP-VRA3-011-1106 | CY-15 | - | - | Remove this contractor yard from the project due to goose creek running through entire property |
| NC-GU-010 | MVP-VRR3-344-0831 | CY-16 | - | - | CY-16 optional storage/contractor yard |
| NC-GU-010 | MVP-VRA3-122-1638 | CY-16 | - | - | Delete CY-16. I would like to avoid the areas of high populations /Cities if possible. Site is large, and offers easy access by RR/RD. |
| NC-GU-012 | MVP-VRR3-344-0833 | CY-17 | - | - | CY-17 optional storage/contractor yard Negatives: to be used as storage the site may need to be timbered. |
| NC-GU-012 | MVP-VRA3-122-1640 | CY-17 | - | - | Delete CY-17. Large green field tract, close to SR29 on the southern end of Spread B. |
| NC-RO-200 | MVP-VRR3-353-1414 | CY-18 | - | - | CY-18 optional storage/contractor yard |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|-------------------------|--------------------|-------------------------|-----------------------|-----------------------|--|
| NC-RO-200 | MVP-VRA3-122-1641 | CY-18 | - | - | Delete CY-18 |
| NC-RO-200.CY18 | MVP-VRA3-031-1505 | CY-18 | - | - | Trim CY-18 to be inside NC-RO-200.CY18 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| VA-PI-207 | MVP-VRR3-353-1417 | CY-19 | - | - | CY-19 optional storage/contractor yard |
| VA-PI-207 | MVP-VRA3-112-1228 | CY-19 | - | - | Trim CY-19 to be outside of environmental buffer |
| VA-PI-207.CY19 | MVP-VRA3-031-1537 | CY-19 | - | - | Trim CY-19 to be inside VA-PI-207.CY19 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| VA-PI-209 | MVP-VRR3-353-1418 | CY-20 | - | - | CY-20 optional storage/contractor yard |
| VA-PI-209 | MVP-VRA3-122-1642 | CY-20 | - | - | Delete CY-20. Tract is a green field site, located on in the middle of Spread A, Poor access off of a major Hwy. |
| VA-PI-216 | MVP-VRR3-353-1420 | CY-21 | - | - | CY-21 optional storage/contractor yard |
| VA-PI-216 | MVP-VRA3-122-1643 | CY-21 | - | - | Delete CY-21. Tract is a green field site, located on in the middle of Spread A, not the best access off of a major Hwy, Large tract. |
| VA-PI-218 VA-PI-220 | MVP-VRR3-353-1421 | CY-22 | - | - | CY-22 optional storage/contractor yard |
| VA-PI-218.CY22 | MVP-VRA3-031-1619 | CY-22 | - | - | Trim CY-22 to be inside VA-PI-218.CY22 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| VA-PI-224 VA-PI-225 | MVP-VRR3-353-1422 | CY-23 | - | - | CY-23 optional storage/contractor yard |
| VA-PI-224 VA-PI-225 | MVP-VRA3-122-1644 | CY-23 | - | - | Delete CY-23 |
| VA-PI-229 | MVP-VRR3-353-1424 | CY-24 | - | - | CY-24 optional storage/contractor yard |
| VA-PI-229 | MVP-VRA3-122-1647 | CY-24 | - | - | Delete CY-24. Tract is a green field site, located on in the middle of Spread A, not the best access off of a major Hwy, Very Large tract. |
| VA-PI-229.CY24 | MVP-VRA3-031-1621 | CY-24 | - | - | Trim CY-24 to be inside VA-PI-229.CY24 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| Caswell, North Carolina | MVP-VRR3-353-1425 | CY-25 | - | - | CY-25 optional storage/contractor yard |
| NC-CA-001.000 | MVP-VRA3-112-1300 | CY-25 | - | - | Trim CY-25 to be outside of environmental buffer. This will split the contractor yard in to two parts |
| NC-CA-001.000 | MVP-VRA3-112-1301 | CY-25 | - | - | Trim CY-25 to be outside of environmental buffer |
| NC-CA-001.000 | MVP-VRA3-112-1234 | CY-25 | - | - | Trim CY-25 to be outside of environmental buffer |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|--|
| NC-CA-001.000 | MVP-VRA3-112-1303 | CY-25 | - | - | Trim CY-25 to be outside of environmental buffer |
| NC-CA-001.000 | MVP-VRA3-112-1232 | CY-25 | - | - | Trim CY-25 to be outside of environmental buffer |
| NC-AL-226 NC-AL-227 | MVP-VRR3-353-1426 | CY-26 | - | - | CY-26 optional storage/contractor yard |
| NC-AL-226 NC-AL-227 | MVP-VRA3-112-1345 | CY-26 | - | - | Trim CY-26 to be outside of environmental buffer. This will split the contractor yard in to two parts |
| NC-AL-226.CY26 NC-AL-227.CY26 | MVP-VRA3-031-1622 | CY-26 | - | - | Trim CY-26 to be inside NC-AL-226.CY26 & NC-AL-227.CY26 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| NC-RO-203 | MVP-VRR3-007-0934 | CY-27 | - | - | CY-27 optional storage/contractor yard |
| NC-RO-203.CY27 NC-RO-202.CY27 | MVP-VRA3-031-1623 | CY-27 | - | - | Delete CY-27 |
| NC-RO-205 NC-RO-208 | MVP-VRR3-007-0937 | CY-28 | - | - | CY-28 optional storage/contractor yard |
| NC-RO-205 NC-RO-208 | MVP-VRA3-122-1648 | CY-28 | - | - | Delete CY-28. Tract is a green field site, located on in the middle of the project, could be used on Spread B, short drive from HWY 29. |
| NC-RO-205.CY28 NC-RO-208.CY28 NC-RO-209.CY28 | MVP-VRA3-031-1625 | CY-28 | - | - | Trim CY-28 to be inside NC-RO-205.CY28, NC-RO-208.CY28 & NC-RO-209.CY28 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| NC-AL-228 NC-AL-229 | MVP-VRR3-007-0939 | CY-29 | - | - | CY-29 optional storage/contractor yard |
| NC-AL-228.CY29 NC-AL-229.CY29 | MVP-VRA3-031-1645 | CY-29 | - | - | Delete CY-29 because the land owner denied survey permission |
| NC-AL-233 | MVP-VRR3-007-0941 | CY-30 | - | - | CY-30 optional storage/contractor yard |
| NC-AL-232.CY30 NC-AL-233.CY30 NC-AL-234.CY30 | MVP-VRA3-106-1410 | CY-30 | - | - | Delete CY-30 because it is unusable |
| NC-OR-001.000 | MVP-VRR3-007-0943 | CY-31 | - | - | CY-31 optional storage/contractor yard |
| NC-RO-001.000.CY31 | MVP-VRA3-122-1649 | CY-31 | - | - | Delete CY-31. Tract is a green field site , located at the end off of Spread B , offers easy access off of major Hwys. |
| NC-OR-001.000.CY31 | MVP-VRA3-031-1647 | CY-31 | - | - | Trim CY-31 to be inside NC-OR-001.000.CY31 only. Trim the edges to leave 10' gap from the tax map shape and the start of CY |
| VA-PI-002.000 | MVP-VRR4-200-1508 | 0 | - | - | Lambert Perm. Workspace |
| VA-PI-002.000 | MVP-VRR4-200-1454 | 0 | - | - | Change to ATWS |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|-----------------------------------|-------------------|------------------|----------------|----------------|---|
| VA-PI-002.000 | MVP-VRA4-210-1303 | 0 | - | - | Trim ATWS-1001C to stay out of environmental buffer |
| VA-PI-002.000 | MVP-VRA4-200-1507 | 0 | - | - | Extend ATWS 1001E |
| VA-PI-002.000 | MVP-VRA4-200-1505 | 0 | - | - | Extend ATWS 1001C |
| VA-PI-002.000 | MVP-VRA4-200-1458 | 0 | - | - | Change to TWS |
| VA-PI-002.000 | MVP-VRA4-200-1456 | 0 | - | - | Change to ATWS |
| VA-PI-002.000 | MVP-VRA4-200-1501 | 0 | - | - | Delete perm. WS to stay out of wetland |
| VA-PI-002.000 | MVP-VRA4-200-1451 | 0 | - | - | Add TWS |
| VA-PI-009.000 | MVP-VRA4-210-1305 | 1.3 | - | - | Trim ATWS 1020 to stay out of environmental buffer |
| VA-PI-025.000 | MVP-VRA4-210-1307 | 4 | - | - | Trim ATWS-1038 to stay out of environmental buffer |
| VA-PI-041.000 | MVP-VRA4-143-1456 | 7 | - | - | Delete Groundbed #1, Alternate 2. Please extend ATWS 1068 and fill in the TWS |
| VA-PI-040.000.RC VA-PI-041.000 | MVP-VRA4-177-1609 | 7.2 | - | - | Delete PA-PI-018A |
| VA-PI-045.000.RC VA-PI-045.001 | MVP-VRA4-177-1611 | 8.1 | - | - | Delete PA-PI-018C |
| VA-PI-045.001 VA-PI-045.002 | MVP-VRA4-143-1459 | 8.1 | - | - | Delete Groundbed #1, Alternate 4. Please extend ATWS 1076 and fill in the TWS |
| VA-PI-045.000.RC VA-PI-047.000 | MVP-VRR4-149-1425 | 8.45 | - | - | Extend TA-PI-022 1' past edge of green property line. |
| VA-PI-053.000 | MVP-VRA4-143-1504 | 9.35 | - | - | Rename to Groundbed #1 |
| VA-PI-065.000 VA-PI-065.000.RC | MVP-VRA4-183-1536 | 10.7 | - | - | Delete TA-PI-026C |
| VA-PI-065.000.RC | MVP-VRA4-177-1613 | 10.8 | - | - | Delete PA-PI-026C |
| VA-PI-075.000 | MVP-VRA4-143-1501 | 10.8 | - | - | Delete Groundbed #1, Alternate 1. Please connect ATWS 1094 and 1094 and fill in the TWS |
| VA-PI-089.000 | MVP-VRA4-210-1312 | 13.4 | - | - | Trim ATWS-1113 to stay out of environmental buffer |
| VA-PI-090.000 VA-PI-091.000 | MVP-VRR4-107-0839 | 13.5 | 14.2 | 0.7 | This is a Landowner/MVP compromise route to create a less impact to the LO property. (This is an adjustment to VRR3-080-1324 that was denied) |
| VA-PI-092.000 VA-PI-094.000 | MVP-VRA4-144-1257 | 14.2 | 14.7 | 0.5 | Adjust the CL to be 50' away from CL of existing piping, putting the edge of the TWS 10' away from the CL of existing pipe |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| VA-PI-099.100 | MVP-VRA4-143-0856 | 15.1 | - | - | Adjust TA-PI-037 to not impact parcel with no tract number. Parcel to the northwest. Give the property line a 1' buffer. Stay inside of survey corridor |
| VA-PI-103.000 VA-PI-103.000.RC | MVP-VRA4-196-1122 | 15.9 | - | - | Add RCE |
| VA-PI-104.100 VA-PI-106.000 | MVP-VRA4-193-0941 | 15.95 | - | - | Trim ATWS 1126 to be away from overhead power lines |
| VA-PI-106.000 | MVP-VRA4-193-0943 | 15.95 | - | - | Trim ATWS 1126A to be away from overhead power lines |
| VA-PI-103.000.RC VA-PI-106.000 | MVP-VRA4-196-1125 | 15.95 | - | - | Add RCE |
| VA-PI-103.000.RC VA-PI-104.100 VA-PI-104.200 VA-PI-106.000 | MVP-VRA4-196-1126 | 16 | - | - | Delete TA-PI-039 |
| VA-PI-115.000 | MVP-VRA4-210-1315 | 16.9 | - | - | Trim ATWS-1134 to stay out of environmental buffer |
| VA-PI-152.000 | MVP-VRA4-143-1506 | 20 | - | - | Rename to Groundbed #2 |
| VA-PI-162.000 VA-PI-162.000.RC VA-PI-163.000 | MVP-VRA4-177-1614 | 21.1 | - | - | Change PA-PI-053 to temporary access road |
| VA-PI-163.000 | MVP-VRA4-143-1503 | 21.1 | - | - | Delete Groundbed #2. Please keep ATWS 1164 the same and fill in the TWS |
| VA-PI-169.000 | MVP-VRA4-210-1316 | 22.05 | - | - | Trim ATWS 1169 to stay out of environmental buffer |
| VA-PI-173.000 VA-PI-174.000 VA-PI-175.000 VA-PI-178.000 | MVP-VRR4-098-1603 | 22.4 | 23.9 | 1.5 | Berry Hill Alternate Route |
| VA-PI-173.000 | MVP-VRA4-193-1607 | 22.4 | - | - | Adjust ATWS 1173 to be 100' wide |
| VA-PI-173.000 | MVP-VRA4-193-1609 | 22.41 | - | - | Add ATWS 100' wide |
| VA-PI-173.000 | MVP-VRA4-193-1611 | 22.5 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-173.000 | MVP-VRA4-198-1123 | 22.65 | - | - | Add ATWS |
| VA-PI-173.000 | MVP-VRA4-193-1612 | 22.65 | - | - | Add ATWS 90' x 120' stay inside of survey corridor |
| VA-PI-173.000 | MVP-VRA4-193-1613 | 22.7 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-174.000 | MVP-VRA4-193-1615 | 22.9 | - | - | Add ATWS 75' x 150' stay inside of survey corridor |
| VA-PI-173.000 VA-PI-174.000 | MVP-VRA4-193-1604 | 23 | - | - | Berry Hill TWS |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| VA-PI-175.000 VA-PI-178.000 | | | | | |
| VA-PI-174.000 | MVP-VRA4-193-1616 | 23.1 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-174.000 | MVP-VRA4-193-1617 | 23.15 | - | - | Add ATWS 75' wide stay inside of survey corridor |
| VA-PI-174.000 VA-PI-175.000 | MVP-VRA4-193-1618 | 23.2 | - | - | Add ATWS 90' x 100' stay inside of survey corridor |
| VA-PI-175.000 | MVP-VRA4-193-1619 | 23.45 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-175.000 | MVP-VRA4-198-1125 | 23.5 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-175.000 | MVP-VRA4-193-1621 | 23.65 | - | - | Add ATWS 60' wide stay inside of survey corridor |
| VA-PI-175.000 | MVP-VRA4-193-1622 | 23.7 | - | - | Add ATWS 40' x 200' stay inside of survey corridor |
| VA-PI-178.000 | MVP-VRA4-193-1623 | 23.75 | - | - | Add ATWS 40' wide stay inside of survey corridor |
| VA-PI-178.000 | MVP-VRA4-198-1126 | 23.8 | - | - | Add ATWS 40' wide stay inside of survey corridor |
| VA-PI-178.000 | MVP-VRA4-193-1625 | 23.8 | - | - | Add ATWS 60' wide |
| VA-PI-178.000 | MVP-VRA4-193-1626 | 23.85 | - | - | Add ATWS 100' wide |
| VA-PI-178.000 | MVP-VRA4-193-1627 | 23.9 | - | - | Adjust ATWS 1188 |
| VA-PI-178.000 | MVP-VRA4-149-1427 | 24.7 | - | - | Trim ATWS 1193 to the Canopy line to stay out of power line ROW |
| NC-RO-006.000 | MVP-VRA4-210-1318 | 28 | - | - | Trim ATWS 1224A to stay out of environmental buffer |
| NC-RO-006.000 | MVP-VRA4-210-1319 | 28.1 | - | - | Trim ATWS 1224 to stay out of environmental buffer |
| NC-RO-019.000 NC-RO-022.000 | MVP-VRA4-210-1321 | 30.9 | - | - | Trim ATWS 1253D to stay out of environmental buffer |
| NC-RO-038.000 NC-RO-038.010 | MVP-VRA4-155-1606 | 32.4 | - | - | Adjust TA-RO-085 to stay off of NC-RO-038.010. Give the property line a 1' buffer |
| NC-RO-047.400 NC-RO-047.500 NC-RO-047.600 NC-RO-046.000 NC-RO-047.100 NC-RO-047.200 NC-RO-047.300 NC-RO-046.000 NC-RO-047.100 NC-RO-045.000 NC-RO-047.000 | MVP-VRA4-196-1128 | 34.1 | - | - | Delete TA-RO-089, ATWS 1287A and ATWS 1287B |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| NC-RO-068.000 NC-RO-069.000 NC-RO-070.000 | MVP-VRA4-196-1527 | 36.95 | - | - | Trim TWS to avoid NC-RO-070.000. Give property line a 1' buffer |
| NC-RO-085.000 | MVP-VRA4-197-1112 | 38.1 | - | - | Trim ATWS 1328B to be out of the environmental buffer |
| NC-RO-085.000 NC-RO-086.000 | MVP-VRA4-197-1108 | 38.1 | 38.2 | 0.1 | Adjust CL to be outside of environmental buffer |
| NC-RO-085.000 NC-RO-086.000 | MVP-VRA4-197-1111 | 38.1 | - | - | Extend ATWS 1328 |
| NC-RO-086.000 | MVP-VRA4-197-1115 | 38.15 | - | - | Add ATWS |
| NC-RO-086.000 | MVP-VRA4-197-1116 | 38.2 | - | - | Delete ATWS 1329 |
| NC-RO-095.000 | MVP-VRA4-191-1128 | 39.7 | - | - | Trim TWS back to the edge of the road |
| NC-RO-095.000 NC-RO-098.000 | MVP-VRA4-191-1126 | 39.7 | - | - | Trim TWS back to the edge of the road to avoid NC-RO-098.000 |
| NC-RO-095.000 NC-RO-097.000.RR NC-RO-098.000 NC-RO-100.000 | MVP-VRA4-191-1124 | 39.7 | - | - | Reduce Perm. ROW to 30' wide centered on the CL of easement to avoid NC-RO-098.000 |
| NC-RO-102.000 NC-RO-103.000.RC NC-RO-104.000 | MVP-VRA4-198-1349 | 40.4 | - | - | Trim permanent ROW to avoid NC-RO-104.000. Give the property line a 1' buffer |
| NC-RO-112.000 | MVP-VRA4-210-1323 | 41.65 | - | - | Trim ATWS 1369 to stay out of environmental buffer |
| NC-RO-112.100 | MVP-VRA4-143-0859 | 41.8 | - | - | Move TA-RO-113A 10' west to not impact parcel to the east of the road with no parcel number. Give the property line a 1' buffer. Stay inside of survey corridor |
| NC-RO-116.000 NC-RO-117.000 | MVP-VRA4-143-0900 | 42.4 | - | - | Adjust TA-RO-115 to stay off this tract (NC-RO-116.000). Give the property line a 1' buffer. Stay inside of survey corridor |
| NC-RO-140.000 | MVP-VRA4-157-1131 | 45.5 | - | - | Please eliminate ATWS 1415 and add this new KMZ atws to IL. This is a landowner request. |
| NC-RO-140.000 | MVP-VRA4-157-1133 | 45.55 | - | - | Delete ATWS 1415 |
| NC-RO-143.000 NC-RO-143.100 NC-RO-143.200 NC-RO-143.400 | MVP-VRA4-172-1146 | 46.1 | - | - | Adjust TA-RO-127 to be on the survey data of existing road |
| NC-RO-143.400 | MVP-VRA4-143-0902 | 46.1 | - | - | Move TA-RO-127 12.5' east to not impact this tract (NC-RO-143.500). Give the property line a 1' buffer. Stay inside of survey corridor |
| NC-RO-146.200 NC-RO-148.500 NC-RO-148.505 | MVP-VRA4-126-1540 | 46.7 | - | - | Request to remove TWS and ATWS from this tract completely. Give the property line a 1' buffer |
| NC-RO-148.505 NC-RO-148.510 NC-RO-148.515 | MVP-VRA4-157-1602 | 46.7 | - | - | Remove this portion of TA-RO-129 this is public in this area. Leave the access road 1' past the property line |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-RO-148.505 | MVP-VRA4-210-1325 | 46.7 | - | - | Move ATWS 1426B east to avoid the environmental buffer |
| NC-RO-148.505 | MVP-VRA4-210-1324 | 46.7 | - | - | Move ATWS 1426A east to avoid the environmental buffer |
| NC-RO-160.000 | MVP-VRA4-210-1326 | 48.5 | - | - | Move 1446A south to avoid environmental buffer |
| NC-RO-174.200 NC-RO-174.400 | MVP-VRA4-143-0903 | 50.3 | - | - | Move TA-RO-139 12.5' south to not impact this tract (NC-RO-174.400). Give the property line a 1' buffer. Stay inside of survey corridor |
| NC-RO-174.100 NC-RO-174.200 NC-RO-174.300 | MVP-VRA4-157-1325 | 50.3 | - | - | Adjust TA-RO-139 to be off of NC-RO-174.300.AR. Give the property line a 1' buffer |
| NC-RO-181.000 NC-RO-182.000 NC-RO-182.000.RC | MVP-VRR4-199-0923 | 51.5 | 51.8 | 0.3 | Duke RR |
| NC-RO-181.000 NC-RO-182.000 NC-RO-182.000.RC | MVP-VRA4-199-0928 | 51.5 | - | - | LOD give NC-RO-182.000 property line a 1' buffer |
| NC-RO-181.000 NC-RO-182.000.RC | MVP-VRA4-212-1527 | 51.5 | - | - | Adjust TA-RO-140 to avoid new land owner. Give property line a 1' buffer |
| NC-RO-181.000 | MVP-VRA4-199-1043 | 51.6 | - | - | Adjust ATWS 1467 to be 100' x 250' |
| NC-RO-181.000 NC-RO-183.000 | MVP-VRA4-199-1046 | 51.65 | - | - | Adjust ATWS 1469 to be 100' wide |
| NC-RO-181.000 NC-RO-183.000 | MVP-VRA4-199-1049 | 51.7 | - | - | Add ATWS 100' x 250' |
| NC-RO-181.000 NC-RO-183.000 | MVP-VRA4-199-1051 | 51.8 | - | - | Add ATWS 100' x 320' |
| NC-RO-181.000 NC-RO-183.000 | MVP-VRA4-199-1052 | 51.8 | - | - | Adjust TA-RO-142 |
| NC-RO-181.000 NC-RO-184.000 | MVP-VRA4-158-1227 | 52 | - | - | Adjust ATWS 1472 because of the added PI |
| NC-RO-181.000 NC-RO-184.000 NC-RO-185.000 NC-GU-001.000 | MVP-VRR4-158-1211 | 52.02 | 52.2 | 0.18 | non-perpendicular alternative Jordan Watershed |
| NC-GU-001.000 NC-RO-181.000 NC-RO-184.000 NC-RO-185.000 | MVP-VRR4-158-1231 | 52.1 | - | - | Adjust TWS |
| NC-GU-001.000 NC-RO-181.000 NC-RO-184.000 NC-RO-185.000 | MVP-VRR4-158-1228 | 52.1 | - | - | Adjust TWS |
| NC-RO-185.000 | MVP-VRA4-158-1259 | 52.1 | - | - | Add ATWS 100' x 200' |
| NC-GU-001.000 | MVP-VRA4-158-1301 | 52.2 | - | - | Move ATWS 1474 back to original FERC Supplemental #3 location |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|--|
| NC-AL-006.000 NC-AL-006.100 | MVP-VRA4-179-1424 | 54.3 | - | - | Adjust TA-AL-154 east to avoid NC-AL-006.100.AR and add a turning flare. Give the property line a 1' buffer |
| NC-AL-010.000 NC-AL-018.000 NC-AL-019.000 | MVP-VRR4-158-1233 | 55.1 | - | - | Adjust TWS Move the north PI east to avoid adding a new land owner to the route |
| NC-AL-010.000 NC-AL-018.000 NC-AL-019.000 | MVP-VRR4-158-1234 | 55.1 | - | - | Adjust TWS Move the north PI east to avoid adding a new land owner to the route. Give the property line a 1' buffer |
| NC-AL-010.000 NC-AL-018.000 NC-AL-019.000 | MVP-VRR4-158-1213 | 55.1 | 55.5 | 0.4 | non-perpendicular alternative Jordan Watershed Move the north PI east to avoid adding a new land owner to the route |
| NC-AL-010.000 | MVP-VRA4-158-1303 | 55.1 | - | - | Add ATWS 100' x 100' then 45' x 100' on the smaller side. Stay off of NC-AL-011.000.ABU and NC-AL-012.000.ABU |
| NC-AL-010.000 | MVP-VRA4-158-1304 | 55.1 | - | - | Adjust ATWS 1507 |
| NC-AL-010.000 | MVP-VRA4-158-1316 | 55.15 | - | - | Add ATWS 100' x 100' |
| NC-AL-010.000 | MVP-VRA4-158-1317 | 55.2 | - | - | Add ATWS 100' x 100' |
| NC-AL-010.000 | MVP-VRA4-158-1318 | 55.25 | - | - | Add ATWS 100' x 100' |
| NC-AL-019.000 | MVP-VRA4-158-1319 | 55.3 | - | - | Add ATWS 100' x 100' |
| NC-AL-018.000 | MVP-VRA4-158-1320 | 55.45 | - | - | Add ATWS 100' wide then 75' x 100 on the smaller side. Stay inside of survey corridor. Meet up with the tree line |
| NC-AL-018.000 | MVP-VRA4-158-1321 | 55.5 | - | - | Adjust ATWS 1511 because of the added PI |
| NC-AL-018.000 NC-AL-019.000 | MVP-VRA4-210-1327 | 55.5 | - | - | Trim ATWS 1511 to stay out of environmental buffer |
| NC-AL-027.000 NC-AL-031.000 NC-AL-030.000 | MVP-VRA4-158-1236 | 56.4 | - | - | Adjust TWS |
| NC-AL-027.000 NC-AL-031.000 NC-AL-030.000 | MVP-VRA4-158-1237 | 56.4 | - | - | Adjust TWS |
| NC-AL-027.000 NC-AL-031.000 NC-AL-030.000 | MVP-VRA4-158-1215 | 56.4 | 56.5 | 0.1 | non-perpendicular alternative Jordan Watershed |
| NC-AL-027.000 NC-AL-028.000 NC-AL-030.000 | MVP-VRA4-158-1323 | 56.45 | - | - | Add ATWS 100' wide. Avoid over lapping of driveway. Give the property line a 1' buffer |
| NC-AL-027.000 NC-AL-028.000 NC-AL-032.000 | MVP-VRA4-190-1205 | 56.5 | - | - | Trim TWS from NC-AL-032.000. Give the property line a 1' buffer |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-AL-027.000 NC-AL-028.000 | MVP-VRR4-158-1218 | 56.51 | 56.7 | 0.19 | non-perpendicular alternative Jordan Watershed |
| NC-AL-027.000 NC-AL-028.000 | MVP-VRR4-158-1240 | 56.6 | - | - | Adjust TWS |
| NC-AL-027.000 NC-AL-028.000 | MVP-VRR4-158-1241 | 56.6 | - | - | Adjust TWS |
| NC-AL-027.000 NC-AL-028.000 | MVP-VRA4-158-1325 | 56.7 | - | - | Add ATWS 95' x 100' and then 100' x 100'. Stay outside of the environmental buffer and give the property line a 1' buffer |
| NC-AL-027.000 NC-AL-028.000 | MVP-VRA4-158-1326 | 56.7 | - | - | Adjust ATWS 1524 because of the added PI |
| NC-AL-051.000 NC-AL-052.000 | MVP-VRR4-158-1219 | 58.55 | 58.8 | 0.25 | non-perpendicular alternative Jordan Watershed |
| NC-AL-050.000 NC-AL-051.000 | MVP-VRA4-158-1327 | 58.55 | - | - | Add ATWS 100' x 200' |
| NC-AL-051.000 | MVP-VRA4-158-1409 | 58.6 | - | - | Add ATWS 100' x 200' |
| NC-AL-051.000 | MVP-VRA4-158-1411 | 58.6 | - | - | Add ATWS 100' wide' bring the south edge to the tree line |
| NC-AL-052.000 | MVP-VRA4-158-1412 | 58.65 | - | - | Add ATWS 100' x 200' |
| NC-AL-051.000 NC-AL-052.000 | MVP-VRR4-158-1242 | 58.7 | - | - | Adjust TWS |
| NC-AL-051.000 NC-AL-052.000 | MVP-VRR4-158-1244 | 58.7 | - | - | Adjust TWS |
| NC-AL-052.000 | MVP-VRA4-158-1425 | 58.7 | - | - | Add ATWS 100' x 200' |
| NC-AL-068.000.RC NC-AL-069.000 | MVP-VRA4-157-1136 | 60.25 | - | - | Change TA-RO-166B to TA-AL-166B. This access road is in Alamance county. |
| NC-AL-067.001 NC-AL-068.000 NC-AL-068.000.RC | MVP-VRA4-157-1134 | 60.25 | - | - | Change TA-RO-166A to TA-AL-166A. This access road is in Alamance county. |
| NC-AL-075.000 | MVP-VRA4-158-1426 | 60.7 | - | - | Adjust ATWS 1559 because of the added PI |
| NC-AL-075.000 | MVP-VRA4-158-1427 | 60.7 | - | - | Adjust ATWS 1560 because of the added PI |
| NC-AL-074.000 NC-AL-075.000 | MVP-VRR4-158-1221 | 60.72 | 60.9 | 0.18 | non-perpendicular alternative Jordan Watershed |
| C-AL-074.000 NC-AL-075.000 | MVP-VRR4-158-1246 | 60.8 | - | - | Adjust TWS |
| NC-AL-074.000 NC-AL-075.000 | MVP-VRR4-158-1245 | 60.8 | - | - | Adjust TWS |
| NC-AL-074.000 NC-AL-074.100 | MVP-VRA4-158-1428 | 60.8 | - | - | Add ATWS 100' x 200' |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| NC-AL-074.000 | MVP-VRA4-158-1429 | 60.84 | - | - | Add ATWS 100' x 200'. Stay inside of survey corridor |
| NC-AL-074.000 | MVP-VRA4-158-1430 | 60.85 | - | - | Add ATWS 100' wide. Stay out of environmental buffer |
| NC-AL-084.000 NC-AL-085.000 NC-AL-086.000 | MVP-VRR4-143-0740 | 62.16 | 62.5 | 0.34 | Adjust CL to cross streams perpendicular |
| NC-AL-084.000 NC-AL-085.000 | MVP-VRA4-158-1431 | 62.2 | - | - | Add ATWS 100' x 200' |
| NC-AL-085.000 NC-AL-084.000 | MVP-VRA4-158-1433 | 62.2 | - | - | Delete ATWS 1569 |
| NC-AL-085.000 | MVP-VRA4-158-1436 | 62.25 | - | - | Add ATWS 100' x 150' |
| NC-AL-084.000 NC-AL-085.000 NC-AL-086.000 | MVP-VRR4-158-1249 | 62.3 | - | - | Adjust TWS |
| NC-AL-084.000 NC-AL-085.000 NC-AL-086.000 | MVP-VRR4-158-1247 | 62.3 | - | - | Adjust TWS |
| NC-AL-085.000 | MVP-VRA4-158-1437 | 62.3 | - | - | Add ATWS 50' x 200' |
| NC-AL-086.000 | MVP-VRA4-193-0947 | 62.5 | - | - | Add TWS and ATWS |
| NC-AL-086.000 | MVP-VRA4-158-1439 | 62.5 | - | - | Add ATWS stay outside of environmental buffer, bring the ATWS to the edge of TA-AL-169 |
| NC-AL-086.000 NC-AL-087.000 | MVP-VRA4-143-0904 | 62.5 | - | - | Trim TWS or adjust centerline to remove TWS from this tract. Give the property line a 1' buffer |
| NC-AL-089.000 NC-AL-092.000 NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1440 | 62.9 | - | - | Add ATWS 100' x 200' |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRR4-143-0743 | 62.92 | 63.5 | 0.58 | Adjust CL to cross streams perpendicular Move the PI near Dollar General east so that the TWS isn't on Dollar General's property |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1441 | 63 | - | - | Add ATWS 100' wide. Stay out of the power line ROW and Hwy 62 ROW |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1443 | 63.05 | - | - | Add ATWS 100' x 100'. Stay out of Hwy 62 ROW |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1444 | 63.1 | - | - | Add ATWS 100' wide. Give cell phone tower fence a 5' buffer |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRR4-158-1251 | 63.2 | - | - | Adjust TWS Move the PI near Dollar General east so that the TWS isn't on Dollar General's property |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|--|
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRR4-158-1250 | 63.2 | - | - | Adjust TWS Move the PI near Dollar General east so that the TWS isn't on Dollar General's property |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 NC-AL-098.000 | MVP-VRA4-179-1501 | 63.25 | - | - | Extend TA-AL-171A to property line. |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 NC-AL-098.000 | MVP-VRA4-179-1458 | 63.25 | - | - | Adjust ATWS 1581 to be in the footprint of the existing LOD. Give the property line of NC-AL-098.000 a 1' buffer |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1446 | 63.25 | - | - | Add ATWS 100' x 100' |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1447 | 63.3 | - | - | Add ATWS 100' x 150' |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-158-1448 | 63.35 | - | - | Add ATWS 100' x 300' |
| NC-AL-093.000 NC-AL-096.000 NC-AL-097.000 | MVP-VRA4-211-1454 | 63.4 | - | - | Trim ATWS 1581A to stay out of environmental buffer |
| NC-AL-103.000 NC-AL-104.000 | MVP-VRA4-149-1443 | 63.9 | - | - | Add ATWS 50' x 150' |
| NC-AL-103.000 NC-AL-104.000 NC-AL-106.000 | MVP-VRR4-149-1432 | 63.91 | 64.1 | 0.19 | Adjust CL to cross deep creek perpendicular and up the hill square |
| NC-AL-103.000 NC-AL-104.000 NC-AL-106.000 | MVP-VRA4-149-1439 | 64 | - | - | Adjust TWS |
| NC-AL-103.000 NC-AL-104.000 NC-AL-106.000 | MVP-VRA4-149-1441 | 64 | - | - | Adjust TWS |
| NC-AL-103.000 | MVP-VRA4-149-1444 | 64 | - | - | Add ATWS 70' x 265' |
| NC-AL-106.000 | MVP-VRA4-149-1445 | 64.05 | - | - | Add ATWS |
| NC-AL-106.000 | MVP-VRA4-149-1449 | 64.1 | - | - | Add ATWS 75' x 335' give the property line a 1' buffer |
| MVF-NC-AL-005.000.RC MVF-NC-AL-007.000 | MVP-VRA4-157-1137 | 64.8 | - | - | Change PA-AL-172A to temporary access road. TA-AL-172A |
| MVF-NC-AL-007.000 | MVP-VRA4-157-1139 | 64.8 | - | - | Change PA-AL-175A to temporary access road. TA-AL-175A |
| MVF-NC-AL-007.000 | MVP-VRA4-207-1547 | 65.3 | - | - | Delete ATWS 1588G because of wetland |
| MVF-NC-AL-007.000 | MVP-VRA4-207-1544 | 65.3 | - | - | Adjust ATWS 1588H 100' x 250' and move away from power pole |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|--|
| MVF-NC-AL-013.000 | MVP-VRA4-207-1548 | 65.5 | - | - | Trim ATWS 1588K to stay outside of environmental buffer |
| FA34-AL-001.000 FA3-AL-003.000 FA3-AL-005.000 FA3-AL-006.000 FA3-AL-007.000 FA3-AL-008.000 FA3-AL-009.000 NC-AL-127.000 | MVP-VRR4-023-1003 | 65.95 | 66.7 | 0.75 | Multiple land owners requested for the pipeline to be adjusted |
| FA34-AL-001.000 FA4-AL-002.000 | MVP-VRA4-199-1111 | 66 | - | - | Add ATWS 100' x 200' |
| FA34-AL-001.000 FA4-AL-002.000 | MVP-VRA4-199-1113 | 66.01 | - | - | Add ATWS 100' x 100' |
| FA34-AL-001.000 FA4-AL-002.000 | MVP-VRA4-199-1114 | 66.05 | - | - | Add ATWS 100' x 200' |
| FA3-AL-003.000 | MVP-VRA4-199-1117 | 66.1 | - | - | Adjust ATWS 1588O. Give the property line a 1' buffer |
| FA3-AL-003.000 | MVP-VRA4-199-1118 | 66.2 | - | - | Adjust ATWS 1588Q Give the property line a 1' buffer |
| FA3-AL-005.000 | MVP-VRA4-199-1119 | 66.3 | - | - | Add ATWS 100' x 100' |
| FA34-AL-001.000 FA4-AL-002.000 FA3-AL-002.000 FA3-AL-003.000 FA3-AL-005.000 FA3-AL-006.000 FA3-AL-007.000 FA3-AL-008.000 NC-AL-127.000 FA3-AL-009.000 | MVP-VRA4-199-1055 | 66.3 | - | - | TWS, Give NC-AL-121.000 and FA3-AL-004.000 property line a 1' buffer |
| FA3-AL-005.000 | MVP-VRA4-199-1120 | 66.31 | - | - | Add ATWS 100' x 100' |
| FA3-AL-006.000 | MVP-VRA4-199-1121 | 66.4 | - | - | Add ATWS 100' x 100' |
| NC-AL-127.000 | MVP-VRA4-199-1122 | 66.5 | - | - | Add ATWS 100' wide |
| NC-AL-127.000 | MVP-VRA4-199-1124 | 66.55 | - | - | Add ATWS 100' wide |
| FA3-AL-009.000 | MVP-VRA4-199-1125 | 66.65 | - | - | Adjust 1588V |
| FA3-AL-009.000 | MVP-VRA4-199-1126 | 66.7 | - | - | Add ATWS 100' wide |
| FA3-AL-009.000 | MVP-VRA4-210-1334 | 66.8 | - | - | Trim ATWS 1588W to stay out of environmental buffer |
| NC-AL-131.000 | MVP-VRA4-210-1335 | 67.1 | - | - | Trim ATWS 1588Y1 to stay out of environmental buffer |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|---|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-AL-149.000 | MVP-VRA4-158-0825 | 68.95 | - | - | Trim ATWS 1646A to be 12.5' x 100'. Stay inside of the survey corridor |
| NC-AL-158.000 NC-AL-159.000 NC-AL-160.000 | MVP-VRA4-129-1557 | 69.4 | - | - | Add ATWS at 25' wide by the width of the property. This is a LO request to remove some additional trees. Give NC-AL-157.000 and NC-AL-161.000 a 1' buffer |
| NC-AL-166.000 NC-AL-167.000 NC-AL-168.000 NC-AL-174.000 NC-AL-166.000.RR NC-AL-174.130.ABU NC-AL-182.000 NC-AL-184.000 NC-AL-182.100 | MVP-VRR4-093-1422 | 69.5 | 70 | 0.5 | Re-routing back to the FERC Pre-Filing |
| NC-AL-166.000 | MVP-VRA4-199-1132 | 69.5 | - | - | Adjust ATWS 1653 |
| NC-AL-166.000 | MVP-VRA4-211-1455 | 69.5 | - | - | Trim ATWS 1653 to stay out of environmental buffer |
| NC-AL-165.000 | MVP-VRA4-143-1332 | 69.55 | - | - | Trim ATWS 1653A to avoid this new parcel. Give the property line a 1' buffer |
| NC-AL-167.000 | MVP-VRA4-199-1136 | 69.6 | - | - | Add ATWS 75' wide. Stay 26' away from residence |
| NC-AL-174.000 NC-AL-175.000 NC-AL-177.000 NC-AL-178.000 | MVP-VRA4-190-1207 | 69.7 | - | - | Delete ATWS 1653B |
| NC-AL-170.300 | MVP-VRA4-210-1337 | 69.7 | - | - | Trim ATWS 1653A to stay out of environmental buffer |
| NC-AL-174.000 NC-AL-174.400 NC-AL-174.500.ABU NC-AL-174.300 NC-AL-174.100 NC-AL-174.200 | MVP-VRA4-199-1139 | 69.7 | - | - | Add ATWS 100' wide |
| NC-AL-174.000 NC-AL-174.100 | MVP-VRA4-199-1137 | 69.7 | - | - | Add ATWS |
| NC-AL-174.000 | MVP-VRA4-199-1141 | 69.75 | - | - | Add ATWS |
| NC-AL-166.000.RR NC-AL-182.000 | MVP-VRR4-114-1358 | 69.8 | - | - | Add access road |
| NC-AL-174.130.ABU | MVP-VRA4-199-1142 | 69.8 | - | - | Add ATWS 50' wide |
| NC-AL-166.000 NC-AL-167.000 NC-AL-168.000 NC-AL-174.000 NC-AL-166.000.RR NC-AL-174.130.ABU NC-AL-182.000 NC-AL-184.000 NC-AL-182.100 | MVP-VRA4-199-1129 | 69.8 | - | - | Perm. Row and TWS |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-AL-182.000 NC-AL-174.130.ABU | MVP-VRA4-199-1143 | 69.85 | - | - | Add ATWS |
| NC-AL-166.000.RR NC-AL-182.000 NC-AL-183.000 | MVP-VRR4-114-1400 | 69.9 | - | - | Add access road |
| NC-AL-184.000 NC-AL-182.100 NC-AL-182.000 | MVP-VRA4-199-1145 | 69.9 | - | - | Add ATWS |
| NC-AL-182.000 NC-AL-184.000 NC-AL-182.100 | MVP-VRA4-199-1147 | 69.91 | - | - | Add ATWS |
| NC-AL-184.000 | MVP-VRA4-199-1159 | 69.92 | - | - | Add ATWS 75' x 75' |
| NC-AL-184.000 | MVP-VRA4-199-1200 | 69.95 | - | - | Adjust ATWS 1653F to be 50' x 300' |
| NC-AL-184.000 NC-AL-185.000 | MVP-VRA4-158-1450 | 70.15 | - | - | Move ATWS 1661 |
| NC-AL-185.000 NC-AL-186.000 | MVP-VRR4-158-1224 | 70.17 | 70.3 | 0.13 | non-perpendicular alternative Jordan Watershed |
| NC-AL-186.000 | MVP-VRR4-186-1022 | 70.2 | - | - | Add ATWS 60' x 225' |
| NC-AL-185.000 NC-AL-186.000 | MVP-VRA4-158-1254 | 70.2 | - | - | Change working side to the west |
| NC-AL-185.000 NC-AL-186.000 | MVP-VRA4-158-1252 | 70.2 | - | - | Change working side to the west |
| NC-AL-186.000 | MVP-VRA4-211-1457 | 70.2 | - | - | Add neck down for stream |
| NC-AL-186.000 | MVP-VRA4-186-1024 | 70.3 | - | - | Add ATWS 50' x 125' |
| NC-AL-186.000 | MVP-VRA4-186-1026 | 70.3 | - | - | Move ATWS 1662 |
| NC-AL-191.000 | MVP-VRA4-151-1228 | 70.9 | - | - | Add ATWS 25' x 100' for pull off. Split pull off all to both sides of TA-AL-189. Stay inside of survey corridor |
| NC-AL-191.000 | MVP-VRA4-151-1230 | 70.9 | - | - | Add ATWS 25' x 100' for pull off. Split pull off all to both sides of TA-AL-189. Stay inside of survey corridor |
| NC-AL-190.000 NC-AL-191.000 | MVP-VRA4-210-1338 | 70.9 | - | - | Move ATWS 1669 north to stay out of environmental buffer |
| NC-AL-197.000 | MVP-VRA4-151-1231 | 72.2 | - | - | Add ATWS 12.5' x 100' for pull off. Keep pull off south of TA-AL-192. Stay inside of survey corridor |
| NC-AL-199.000 | MVP-VRA4-151-1232 | 72.45 | - | - | Add ATWS 25' x 100' for pull off. Split pull off all to both sides of TA-AL-193. Stay inside of survey corridor |
| NC-AL-199.000 | MVP-VRA4-143-0906 | 72.5 | - | - | Adjust TA-AL-193 to stay off this tract (NC-AL-199.100). Give the property line a 1' buffer. Stay inside of survey corridor |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| VA-PI-001.000 | MVP-VRA4-133-1456 | CY-01 | - | - | Trim out the area that overlaps with the layer "Transco Road Net Conservation Site". Give the shape of the Transco Road Net Conservation Site a 1' buffer |
| | MVP-VRR4-154-1000 | CY-19 | - | - | Add access road for CY-19 |
| | MVP-VRR4-154-0958 | CY-19 | - | - | Add access road for CY-19 |
| VA-PI-207 | MVP-VRA4-151-1411 | CY-19 | - | - | Trim CY-19 to be 26' away from residence |
| | MVP-VRR4-154-1001 | CY-22 | - | - | Add access road for CY-22 |
| | MVP-VRR4-154-1003 | CY-22 | - | - | Add access road for CY-22 |
| VA-PI-218 | MVP-VRA4-151-1442 | CY-22 | - | - | Trim CY-22 to be 26' away from residence |
| | MVP-VRR4-154-1004 | CY-25 | - | - | Add access road for CY-25 |
| | MVP-VRR4-154-1011 | CY-25 | - | - | Add access road for CY-25 |
| NC-CA-001.000.CY25 | MVP-VRA4-154-1007 | CY-25 | - | - | Add access road to access other half of CY-25 |
| NC-CA-001.000.CY25 | MVP-VRA4-154-1009 | CY-25 | - | - | Add access road to access other half of CY-25 |
| NC-CA-001.000.CY25 | MVP-VRA4-154-1010 | CY-25 | - | - | Add access road to access other half of CY-25 |
| NC-AL-227 | MVP-VRR4-154-1012 | CY-26 | - | - | Add access road for CY-26 |
| NC-AL-227 | MVP-VRR4-154-1014 | CY-26 | - | - | Add access road for CY-26 |
| NC-AL-226 | MVP-VRA4-154-1015 | CY-26 | - | - | Add access road to access other half of CY-26 |
| VA-PI-002.000 | MVP-VRA5-218-1328 | 0 | 0.1 | 0.1 | Adjusted the centerline of easement ("CL") to be 25 feet away from H-605. |
| VA-PI-092.000 VA-PI-092.100 VA-PI-092.200 | MVP-VRR5-214-1049 | 14.2 | - | - | Adjusted TA-PI-035 to avoid VA-PI-092.100. Added turning flares to the corners because of the back to back turns. |
| VA-PI-104.100 VA-PI-106.000 | MVP-VRA5-228-1631 | 15.95 | - | - | Trimmed additional temporary workspace ("ATWS") 1126 to avoid VA-PI-104.100. Change avoids one landowner. |
| VA-PI-121.000 | MVP-VRA5-234-1420 | 17.8 | - | - | Trimmed temporary workspace ("TWS") out of environmental buffer. |
| VA-PI-169.000 | MVP-VRA5-227-0840 | 22 | - | - | Trimmed a 25-foot x 25-foot area from ATWS 1169 to minimize impacts on septic. |
| VA-PI-174.000 | MVP-VRA5-217-1124 | 23.05 | - | - | Added neck down for wetland. |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|-------------------|------------------|----------------|----------------|---|
| VA-PI-174.000 | MVP-VRA5-217-1125 | 23.15 | - | - | Trimmed ATWS 1173G out of environmental buffer. |
| VA-PI-178.000 | MVP-VRA5-217-1026 | 23.9 | - | - | Trimmed ATWS 1173P out of environmental buffer. |
| NC-RO-006.000 | MVP-VRR5-221-1633 | 27.6 | 27.7 | 0.1 | Adjusted the CL to be parallel to Transco's existing pipelines. |
| NC-RO-006.000 | MVP-VRA5-249-1433 | 28.2 | - | - | Adjusted permanent easement to LN 3600 for tie-in. |
| NC-RO-006.000 | MVP-VRA5-249-1435 | 28.2 | - | - | Adjusted temporary easement to LN 3600 for tie-in. |
| NC-RO-006.000 | MVP-VRA5-249-1437 | 28.2 | - | - | Adjusted PA-RO-000. |
| NC-RO-006.000 | MVP-VRA5-262-1208 | 28.2 | - | - | Adjusted permanent easement to LN 3600 (for tie-in). |
| NC-RO-011.000 | MVP-VRA5-213-1621 | 29.9 | - | - | Trimmed ATWS 1247D out of environmental buffer. |
| NC-RO-037.000 | MVP-VRA5-246-0901 | 32.1 | - | - | Added TWS for typical construction. |
| NC-RO-038.000 NC-RO-038.025 NC-RO-038.050 | MVP-VRA5-226-1008 | 32.4 | - | - | Adjusted TA-RO-085 to be 15-feet wide and removed from NC-RO-038.025 and NC-RO-038.030. Added 1-foot property line buffers. |
| NC-RO-038.000 | MVP-VRA5-246-0922 | 32.5 | - | - | Added TWS for typical construction. |
| NC-RO-038.000 | MVP-VRA5-246-0935 | 32.5 | - | - | Deleted ATWS 1268. |
| NC-RO-061.000 | MVP-VRA5-213-1623 | 36 | - | - | Trimmed ATWS 1303A out of environmental buffer. |
| NC-RO-112.000 | MVP-VRA5-234-1422 | 41.6 | - | - | Trimmed ATWS 1369 out of environmental buffer. |
| NC-RO-111.000.RC | MVP-VRA5-234-1423 | 41.6 | - | - | Trimmed TWS out of environmental buffer. |
| NC-GU-001.000 NC-RO-181.000 | MVP-VRA5-234-1532 | 42.4 | - | - | Added ATWS 100-foot x 100 feet for stream crossing. |
| NC-RO-117.000 NC-RO-116.000 | MVP-VRA5-226-1010 | 42.4 | - | - | Trimmed ATWS 1379B off of NC-RO-116.000. Added 1-foot property line buffer. |
| NC-RO-133.200 | MVP-VRA5-213-1627 | 43.8 | - | - | Trimmed ATWS 1395 out of environmental buffer. |
| NC-RO-143.000 | MVP-VRA5-234-1424 | 46.05 | - | - | Added ATWS 100-foot x 100-foot for stream crossing. |
| NC-RO-143.000 | MVP-VRA5-234-1426 | 46.1 | - | - | Trimmed TWS for environmental neck down |
| NC-RO-143.000 | MVP-VRA5-234-1425 | 46.1 | - | - | Extended ATWS 1420. |
| NC-RO-143.000 | MVP-VRA5-234-1433 | 46.2 | - | - | Added ATWS 100-foot wide for stream crossing. |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--|-------------------|------------------|----------------|----------------|---|
| NC-RO-143.000 | MVP-VRA5-234-1435 | 46.2 | - | - | Trimmed TWS for environmental neck down. |
| NC-RO-143.000 | MVP-VRA5-234-1530 | 46.25 | - | - | Added ATWS 100-feet x 100-feet stream crossing. |
| NC-RO-148.505 | MVP-VRA5-217-1031 | 46.7 | - | - | Moved ATWS 1426B east to avoid environmental buffer. |
| NC-GU-001.000 | MVP-VRA5-234-1531 | 52.35 | - | - | Added ATWS 100 feet x 100-feet for stream crossing. |
| NC-GU-001.000 | MVP-VRA5-234-1533 | 52.4 | - | - | Trimmed TWS for environmental neck down. |
| NC-AL-000.005 NC-RO-186.000 | MVP-VRA5-235-1650 | 52.6 | - | - | Deleted TA-RO-146A. |
| NC-AL-000.005 | MVP-VRA5-213-1629 | 52.7 | - | - | Trimmed ATWS 1480 out of environmental buffer. |
| NC-AL-010.000 | MVP-VRA5-234-1536 | 55.3 | - | - | Trimmed ATWS 1507D out of environmental buffer. |
| NC-AL-010.000 | MVP-VRA5-234-1538 | 55.3 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-010.000 | MVP-VRA5-234-1535 | 55.3 | - | - | Moved ATWS 1507C out of environmental buffer. |
| NC-AL-053.000 | MVP-VRA5-211-1439 | 59 | - | - | Added ATWS 100-feet x 200-feet for point of inflection ("PI") construction. |
| NC-AL-053.000 NC-AL-055.000 NC-AL-061.000 NC-AL-062.000 NC-AL-063.000 NC-AL-064.000 | MVP-VRA5-211-1436 | 59 | - | - | Modified workspace and limit of disturbance ("LOD") per landowner request. |
| NC-AL-053.000 NC-AL-055.000 NC-AL-061.000 NC-AL-062.000 NC-AL-063.000 NC-AL-064.000 | MVP-VRR5-094-0903 | 59 | 59.6 | 0.6 | Modified the CL per landowner request. |
| NC-AL-055.000 | MVP-VRA5-211-1440 | 59.2 | - | - | Added ATWS 60-feet x 200-feet for PI construction. |
| NC-AL-055.000 | MVP-VRA5-211-1442 | 59.25 | - | - | Added ATWS 100-feet x 200-feet for road crossing. |
| NC-AL-060.000 NC-AL-061.000 | MVP-VRA5-211-1443 | 59.3 | - | - | Added ATWS 100-feet x 100-feet for road crossing. |
| NC-AL-062.000 NC-AL-064.000 | MVP-VRA5-211-1445 | 59.6 | - | - | Deleted ATWS 1552. |
| NC-AL-074.000 | MVP-VRA5-234-1539 | 60.8 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-077.000 | MVP-VRA5-234-1542 | 61.3 | - | - | Added ATWS 100-feet x 100-feet for stream crossing. |

| REVISED Table 10.6-4 | | | | | |
|---|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-AL-077.000 | MVP-VRA5-234-1543 | 61.3 | - | - | Trimmed TWS for environmental neck down. |
| NC-AL-077.000 | MVP-VRA5-234-1551 | 61.35 | - | - | Added ATWS 100-feet x 100-feet for stream crossing. |
| NC-AL-077.000 | MVP-VRA5-234-1552 | 61.35 | - | - | Deleted ATWS 1562. |
| NC-AL-103.000 | MVP-VRA5-234-1553 | 63.8 | - | - | Trimmed ATWS 1584 out of environmental buffer. |
| NC-AL-103.000 NC-AL-104.000 | MVP-VRA5-234-1555 | 63.9 | - | - | Trimmed ATWS 1587 out of the environmental buffer. |
| NC-AL-104.000 | MVP-VRA5-234-1556 | 63.9 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-106.000 | MVP-VRA5-234-1557 | 64.1 | - | - | Revised ATWS. |
| NC-AL-106.000 | MVP-VRA5-234-1559 | 64.1 | - | - | Deleted ATWS 1587B. |
| NC-AL-106.000 | MVP-VRA5-234-1601 | 64.1 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-106.000 | MVP-VRA5-234-1600 | 64.1 | - | - | Trimmed ATWS 1587C out of environmental buffer. |
| MVF-NC-AL-007.000 MVF-NC-AL-010.000 | MVP-VRR5-107-0843 | 64.8 | 65.05 | 0.25 | Modified the CL per landowner request. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1532 | 64.8 | - | - | Adjusted ATWS 1588E 100-feet x 250-feet. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1529 | 64.8 | - | - | Modified workspace and LOD per landowner request. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1533 | 64.9 | - | - | Added ATWS for PI construction and stream crossing. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1536 | 65 | - | - | Added ATWS 100-feet x 260-feet for PI construction and stream crossing. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1539 | 65.05 | - | - | Trimmed TWS for environmental neck down. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1542 | 65.1 | - | - | Trimmed TWS for environmental neck down. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1540 | 65.1 | - | - | Added ATWS 100-feet wide for stream crossing. |
| MVF-NC-AL-007.000 | MVP-VRA5-207-1543 | 65.15 | - | - | Extended ATWS 1588FF to the edge of the neck down. |
| FA3-AL-009.000 | MVP-VRA5-248-1445 | 66.55 | - | - | Adjusted ATWS 1588V. |
| FA3-AL-009.000 NC-AL-127.000 NC-AL-128.000 NC-AL-129.000 NC-AL-131.000 NC-AL-132.000 | MVP-VRR5-248-1439 | 66.55 | - | - | Adjusted TWS out of the environmental buffer. Adjusted TWS to be 25-feet away from the base of the electric tower. |

| REVISED Table 10.6-4 | | | | | |
|--|--------------------|-------------------------|-----------------------|-----------------------|--|
| Route Variations Incorporated into the MVP Southgate Project Pipeline | | | | | |
| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
| NC-AL-133.000 NC-AL-134.000 NC-AL-135.000 NC-AL-136.000 NC-AL-137.000 | | | | | |
| NC-AL-127.000 | MVP-VRA5-234-1603 | 66.6 | - | - | Trimmed TWS and ATWS 1588U1 out of environmental buffer. |
| FA3-AL-009.000 | MVP-VRA5-248-1446 | 66.6 | - | - | Added ATWS 100-feet x 200-feet. |
| FA3-AL-009.000 NC-AL-127.000 | MVP-VRA5-234-1604 | 66.65 | - | - | Trimmed TWS out of environmental buffer. |
| FA3-AL-009.000 | MVP-VRA5-248-1447 | 66.65 | - | - | Added ATWS 100-feet x 100-feet for stream crossing. Added a 1-foot property line buffer. |
| FA3-AL-009.000 NC-AL-127.000 NC-AL-128.000 NC-AL-129.000 NC-AL-131.000 NC-AL-132.000 NC-AL-133.000 NC-AL-134.000 NC-AL-135.000 NC-AL-136.000 NC-AL-137.000 | MVP-VRR5-248-1443 | 66.65 | 67.6 | 0.95 | Adjusted CL to be further away from the Martin Marietta Materials Inc. property line. |
| FA3-AL-009.000 | MVP-VRA5-248-1448 | 66.7 | - | - | Added ATWS 100-feet wide for stream crossing with 1-foot property line buffer. |
| NC-AL-127.000 NC-AL-129.000 | MVP-VRA5-248-1449 | 66.8 | - | - | Added ATWS for PI construction with 1-foot property line buffer. |
| NC-AL-129.000 | MVP-VRA5-248-1451 | 66.9 | - | - | Added ATWS 1588Y around PI 100-feet x 200-feet. |
| NC-AL-129.000 | MVP-VRA5-248-1453 | 67 | - | - | Added ATWS for PI construction. |
| NC-AL-131.000 | MVP-VRA5-248-1457 | 67.05 | - | - | Added ATWS 100-feet x 100-feet for PI construction. |
| NC-AL-131.000 | MVP-VRA5-234-1606 | 67.1 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-131.000 | MVP-VRA5-248-1504 | 67.1 | - | - | Adjusted ATWS 1588Y2 to be 100-feet wide. |
| NC-AL-131.000 | MVP-VRA5-248-1505 | 67.11 | - | - | Added ATWS to stay 25-feet away from electric tower base. |
| NC-AL-132.000 | MVP-VRA5-248-1506 | 67.2 | - | - | Added ATWS for stream crossing with 1-foot property line buffer. |
| NC-AL-132.000 | MVP-VRA5-248-1508 | 67.2 | - | - | Trimmed ATWS 1588Y3 to compensate for current CL. |
| NC-AL-132.000 | MVP-VRA5-248-1509 | 67.25 | - | - | Added ATWS 100-feet x 100-feet for stream crossing. |
| NC-AL-133.000 NC-AL-134.000 | MVP-VRA5-248-1510 | 67.4 | - | - | Added ATWS 100-feet x 200-feet for PI construction. |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|---|--------------------|-------------------------|-----------------------|-----------------------|---|
| NC-AL-133.000 NC-AL-136.000 NC-AL-137.000 | MVP-VRA5-248-1511 | 67.5 | - | - | Adjusted ATWS 1588Z1 100-feet x 200-feet. |
| NC-AL-136.000 NC-AL-137.000 | MVP-VRA5-234-1607 | 67.6 | - | - | Deleted ATWS 1619B. |
| NC-AL-139.000 | MVP-VRA5-234-1609 | 67.9 | - | - | Added ATWS for stream crossing. |
| NC-AL-139.000 | MVP-VRA5-234-1610 | 67.9 | - | - | Trimmed TWS for environmental neck down. |
| NC-AL-140.000 NC-AL-141.000 | MVP-VRA5-234-1611 | 68.1 | - | - | Moved ATWS 1623 north out of environmental buffer. |
| NC-AL-142.000 | MVP-VRA5-234-1614 | 68.1 | - | - | Trimmed ATWS 1624 out of environmental buffer. |
| NC-AL-142.000 | MVP-VRA5-234-1612 | 68.1 | - | - | Moved ATWS 1623A south out of environmental buffer. |
| NC-AL-142.000 | MVP-VRA5-234-1615 | 68.1 | - | - | Trimmed TWS out of environmental buffer. |
| NC-AL-144.000 NC-AL-145.000 | MVP-VRA5-226-1011 | 68.5 | - | - | Trimmed TWS and ATWS 1635 at driveway and provided a 5-foot buffer. |
| NC-AL-144.000 | MVP-VRA5-212-1139 | 68.6 | - | - | Adjusted ATWS 1636 to avoid barn and large tree. |
| NC-AL-148.000 | MVP-VRA5-213-1630 | 68.8 | - | - | Trimmed ATWS 1641 out of environmental buffer. |
| NC-AL-148.000 | MVP-VRA5-213-1631 | 68.9 | - | - | Trimmed ATWS 1645 out of environmental buffer. |
| NC-AL-149.000 NC-AL-150.000 | MVP-VRA5-246-0946 | 69.05 | - | - | Added TWS for road bore. |
| NC-AL-166.000 NC-AL-167.000 NC-AL-165.000 | MVP-VRA5-212-1140 | 69.5 | - | - | Deleted TA-AL-187 and the ATWS pull offs. |
| NC-AL-188.000 | MVP-VRA5-246-0948 | 70.5 | - | - | Added TWS for typical construction. |
| NC-AL-191.000 | MVP-VRA5-213-1633 | 71.05 | - | - | Trimmed ATWS 1675 out of environmental buffer. |
| NC-AL-194.000 | MVP-VRA5-249-1101 | 71.9 | 72 | 0.1 | Adjusted the pipeline CL to avoid large tree. |
| NC-AL-194.000 | MVP-VRA5-249-1103 | 71.9 | - | - | Adjusted the workspace to avoid large tree, keep workspace 90-feet away from the tree canopy. |
| NC-AL-207.000 | MVP-VRA5-248-1354 | 72.9 | - | - | Trimmed TWS to avoid mobile home. |
| NC-AL-210.000 | MVP-VRA5-221-1540 | 73.17 | - | - | Gave the property line a 1-foot buffer. |
| VA-PI-142.200 | MVP-VRA5-218-1533 | CY-03 | - | - | Trimmed Contractor Yard ("CY")-03 out of environmental buffer. |

REVISED Table 10.6-4

Route Variations Incorporated into the MVP Southgate Project Pipeline

| Tract ID | Reroute No. | Approx. Begin MP | Approx. End MP | Length (miles) | Variation Description / Justification |
|--------------------------------|--------------------|-------------------------|-----------------------|-----------------------|--|
| VA-PI-142.200 | MVP-VRA5-218-1534 | CY-03 | - | - | Trimmed CY-03 out of environmental buffer. |
| NC-RO-001.300 | MVP-VRA5-218-1536 | CY-05 | - | - | Trimmed CY-05 out of environmental buffer. |
| NC-RO-001.300 NC-RO-001.400 | MVP-VRA5-218-1537 | CY-05 | - | - | Trimmed CY-05 out of environmental buffer. |
| | MVP-VRA5-212-1129 | CY-25A | - | - | Deleted TA-CA-105D. |
| NC-CA-001.000 | MVP-VRA5-213-1129 | CY-25A | - | - | Deleted TA-CA-105A. |
| NC-CA-001.000 | MVP-VRA5-213-1134 | CY-25A | - | - | Deleted TA-CA-105B. |
| NC-CA-001.000 | MVP-VRA5-213-1135 | CY-25A | - | - | Deleted TA-CA-105C. |
| NC-CA-001.000 | MVP-VRA5-213-1136 | CY-25A | - | - | Deleted CY-25A. |
| NC-CA-001.000 | MVP-VRA5-225-1110 | CY-25B | - | - | Reduced size of CY-25B to approx. 25 acres. |
| NC-AL-226 NC-AL-227 | MVP-VRA5-218-1540 | CY-26 | - | - | Trimmed CY-26 out of environmental buffer. |
| NC-AL-226 NC-AL-227 | MVP-VRA5-218-1542 | CY-26 | - | - | Trimmed CY-26 out of environmental buffer. |

| REVISED Table 136-1 | | | |
|---|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Whitehead Variation (MP 3.65 to MP 5.1) | | | |
| Feature | Current Route (September 2019) | Whitehead Variation | Difference |
| Total length (miles) | 1.5 | 1.8 | +0.3 |
| Construction right-of-way (acres) <u>a/</u> | 18.1 | 21.5 | +3.4 |
| Permanent right-of-way (acres) <u>a/</u> | 9 | 10.7 | +1.7 |
| Total number of parcels crossed | 10 | 12 | +2 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0/0 | 0/0 | 0/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 1 | 0 | -1 |
| Number of waterbodies crossed | 2 | 1 | -1 |
| Number of NWI wetlands crossed | 1 | 1 | 0 |
| Total NWI wetland crossing length (feet) | 200 | 315 | +115 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.3 | 0.5 | +0.2 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 2.7 | 8.4 | +5.7 |
| Forest Areas (miles) | 0.3 | 0.6 | +0.3 |
| Forested Land affected during construction (acres) | 4.8 | 7.5 | +2.7 |
| Forested Land affected during operation (acres) | 2.2 | 3.7 | +1.5 |
| Length adjacent to existing ROW (miles) | 0.6 | 0 | -0.6 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory</p> <p><u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

Table 38-1a**Comparison of the Current Route (September 2019) and Shambley Variation 1 (MP 59.0 – 59.58)**

In its *May 13, 2019 Responses to Environmental Information Request #2*, the Project evaluated Shambley Variation 1 (MP 59.0 – 59.58) in Alamance County, North Carolina, to avoid or reduce impacts at the Shambley property where they plan to construct a new home and install a septic system. In its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project provided an updated analysis for the Shambley Variation 1 (MP 59.0 – 59.58). Since the June 2019 filing, the Project adopted and incorporated portions of the Shambley Variation 1 into its preferred pipeline route. Therefore, the Shambley Variation 1 has been eliminated from the analysis as it is no longer applicable.

Table 38-1b**Comparison of the Current Route (September 2019) and Shambley Variation 2 (MP 59.40 to MP 59.77)**

In its *May 13, 2019 Responses to Environmental Information Request #2*, the Project evaluated Shambley Variation 2 (MP 59.4 to MP 59.77) in Alamance County, North Carolina, to avoid or reduce impacts at the Shambley property where they plan to construct a new home and install a septic system. In its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project provided an updated analysis for the Shambley Variation 2 (MP 59.40 to MP 59.77). This variation was compared to the May 2019 pipeline route where it deviated from and rejoined the May 2019 pipeline route between approximate MP 59.40 to MP 59.77. Since the June 2019 filing, the Project adopted and incorporated portions of the Shambley Variation 1 into its preferred pipeline route. As a result, the May 2019 pipeline route in this area is no longer relevant and the Shambley Variation 2 has been eliminated from the analysis as it is no longer applicable.

Table 138-1**Comparison of the Current Route (September 2019) and Bombardier Variation (MP 59.0 to MP 59.4)**

In its *March 28, 2019 Supplemental Filing*, the Project evaluated Bombardier Variation (MP 59.0 to MP 59.4) in Alamance County, North Carolina, to avoid Bombardier's property. Because the primary disadvantages outweighed the primary advantages, the Project eliminated the Bombardier Variation from further consideration as its preferred pipeline route. In its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project provided an updated analysis for the Bombardier Variation (MP 59.0 to MP 59.4). This variation was compared to the May 2019 pipeline route where it deviated from and rejoined the May 2019 pipeline route between approximate MP 59.0 to MP 59.4. Since the June 2019 filing, the Project adopted and incorporated portions of the Shambley Variation 1 into its preferred pipeline route. As a result, the May 2019 pipeline route in this area is no longer relevant and the Bombardier Variation has been eliminated from the analysis as it is no longer applicable.

| REVISED Table 138b-1 | | | |
|---|---|------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Moore Variation (MP 33.1 to MP 33.9) | | | |
| Feature | Current Route (September 2019) | Moore Variation | Difference |
| Total length (miles) | 0.8 | 0.9 | +0.1 |
| Construction right-of-way (acres) <u>a/</u> | 10.4 | 11.4 | +1 |
| Permanent right-of-way (acres) <u>a/</u> | 5.2 | 5.7 | +0.5 |
| Total number of parcels crossed | 4 | 8 | +4 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0/0 | 0/0 | 0/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 2 | 2 | 0 |
| Number of NWI wetlands crossed | 0 | 0 | 0 |
| Total NWI wetland crossing length (feet) | 0 | 0 | 0 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0 | 0 | 0 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 4.6 | 1.8 | -2.8 |
| Forest Areas (miles) | 0.3 | 0.7 | +0.4 |
| Forested Land affected during construction (acres) | 3.8 | 8.4 | +4.6 |
| Forested Land affected during operation (acres) | 1.8 | 4.2 | +2.4 |
| Length adjacent to existing ROW (miles) | 0.7 | 0 | -0.7 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 138f-1 | | | |
|---|---|----------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Nicholson Variation (MP 3.65 to MP 4.0) | | | |
| Feature | Current Route (September 2019) | Nicholson Variation | Difference |
| Total length (miles) | 0.4 | 0.7 | +0.3 |
| Construction right-of-way (acres) <u>a/</u> | 4.7 | 8.9 | +4.2 |
| Permanent right-of-way (acres) <u>a/</u> | 2.3 | 4.4 | +2.1 |
| Total number of parcels crossed | 4 | 5 | +1 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0/0 | 0/0 | 0/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 0 | 0 | 0 |
| Number of NWI wetlands crossed | 0 | 0 | 0 |
| Total NWI wetland crossing length (feet) | 0 | 0 | 0 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0 | 0 | 0 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 2.3 | 6.5 | +4.2 |
| Forest Areas (miles) | 0 | 0 | 0 |
| Forested Land affected during construction (acres) | 0.1 | 0 | -0.1 |
| Forested Land affected during operation (acres) | 0 | 0 | 0 |
| Length adjacent to existing ROW (miles) | 0 | 0 | 0 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

| REVISED Table 138g-1 | | | |
|---|---|-------------------------|-------------------|
| Comparison of the Current Route (September 2019) and Madrin Variation (MP 58.1 to MP 58.9) | | | |
| Feature | Current Route (September 2019) | Madrin Variation | Difference |
| Total length (miles) | 0.8 | 1.2 | +0.4 |
| Construction right-of-way (acres) <u>a/</u> | 10.4 | 14.7 | +4.3 |
| Permanent right-of-way (acres) <u>a/</u> | 5.2 | 7.3 | +2.1 |
| Total number of parcels crossed | 6 | 7 | +1 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 0/0 | 0/0 | 0/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial Land (miles) | 0 | 0 | 0 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 0 | 0 | 0 |
| Number of waterbodies crossed | 1 | 2 | +1 |
| Number of NWI wetlands crossed | 1 | 2 | +1 |
| Total NWI wetland crossing length (feet) | 20 | 46 | +26 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0.1 | 0.1 | 0 |
| Agricultural Land within construction ROW (acres) <u>c/</u> | 5 | 3.6 | -1.4 |
| Forest Areas (miles) | 0.4 | 0.8 | +0.4 |
| Forested Land affected during construction (acres) | 5.5 | 9.7 | +4.2 |
| Forested Land affected during operation (acres) | 2.7 | 4.9 | +2.2 |
| Length adjacent to existing ROW (miles) | 0 | 0.2 | +0.2 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory</p> <p><u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |

Table 1

Comparison of the Current Route (September 2019) and Martin Marietta Variation 1 (MP 66.96 – 67.12)

In its *May 22, 2019 Supplemental Filing*, the Project evaluated Martin Marietta Variation 1 (MP 66.96 – 67.12) in Alamance County, North Carolina, to relocate the May 2019 pipeline route to the west, further from the East Alamance Quarry, which is owned and operated by Martin Marietta Materials Inc. The Martin Marietta Variation 1 did not offer a significant environmental advantage over the May 2019 pipeline route. However, in its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project provided an updated analysis for the Martin Marietta Variation 1 (MP 66.96 – 67.12). This variation was compared to the May 2019 pipeline route where it deviated from and rejoined the May 2019 pipeline route between approximate MP 66.96 – 67.12. Since the June 2019 filing, the Project adopted and incorporated various route variations, including portions of the Martin Marietta Variation 1, into its preferred pipeline route. As a result, the May 2019 pipeline route in this area is no longer relevant and the Martin Marietta Variation 1 has been eliminated from the analysis as it is no longer applicable.

Table 2**Comparison of the Current Route (September 2019) and Martin Marietta Variation 2 (MP 66.7 – 67.5)**

In its *May 22, 2019 Supplemental Filing*, the Project evaluated Martin Marietta Variation 2 (MP 66.7 – 67.5) in Alamance County, North Carolina, to relocate the May 2019 pipeline route approximately 100 feet to the east. The Martin Marietta Variation 2 did not offer a significant environmental advantage over the May 2019 pipeline route. However, in its *June 21, 2019 Responses to Post-Application Environmental Information Request #3*, the Project provided an updated analysis for the Martin Marietta Variation 2 (MP 66.7 – 67.5). This variation was compared to the May 2019 pipeline route where it deviated from and rejoined the May 2019 pipeline route between approximate MP 66.7 – 67.5. Since the June 2019 filing, the Project adopted and incorporated various route variations, including portions of the Martin Marietta Variation 1, into its preferred pipeline route. As a result, the May 2019 pipeline route in this area is no longer relevant and the Martin Marietta Variation 2 has been eliminated from the analysis as it is no longer applicable.

| REVISED Table 3 | | | |
|---|---|--------------------------------------|-------------------|
| Comparison of the Current Route (Formerly Town of Haw River Variation) and Previous Route (May 2019) | | | |
| Feature | Current Route (September 2019) | Previous Route (May 2019) | Difference |
| Total length (miles) | 0.4 | 0.5 | +0.1 |
| Construction right-of-way (acres) <u>a/</u> | 5.3 | 6.3 | +1.0 |
| Permanent right-of-way (acres) <u>a/</u> | 2.6 | 3.1 | +0.5 |
| Total number of parcels crossed | 11 | 9 | -2 |
| Number of residences within 25 and 50 feet of the edge of the construction ROW | 3/3 | 2/3 | -1/0 |
| Residential Land (miles) | 0 | 0 | 0 |
| Commercial/Industrial land (miles) | 0.2 | 0 | -0.2 |
| Unlisted/Potential Eligible Historic Properties (number) | 0 | 0 | 0 |
| National Trails, Recreation Trails, and Other Recreational Areas (number) | 1 | 1 | 0 |
| Number of waterbodies crossed | 1 | 1 | 0 |
| Number of NWI wetlands crossed | 0 | 0 | 0 |
| Total NWI wetland crossing length (feet) | 0 | 0 | 0 |
| NWI wetlands within construction ROW (acres) <u>b/</u> | 0 | 0 | 0 |
| Agricultural land within construction ROW (acres) <u>c/</u> | 0 | 0 | 0 |
| Forest Areas (miles) | 0.1 | 0.1 | 0 |
| Forested land affected during construction (acres) | 2.0 | 1.8 | -0.2 |
| Forested land affected during operation (acres) | 1 | 0.9 | -0.1 |
| Length adjacent to existing ROW (miles) | 0 | 0 | 0 |
| <p><u>a/</u> Assuming 100-foot-wide construction ROW and 50-foot-wide permanent ROW. <u>b/</u> Assuming 75-foot-wide construction ROW. <u>c/</u> Includes pasture/hay and cultivated crops. ROW = right-of-way. NWI = National Wetland Inventory <u>Information Sources:</u> GIS – Analysis based on Geodatabase layers and shapefiles. NC Parcel Boundaries and Standard Fields - http://data.nconemap.gov/geoportal/catalog/search/resource/details.page NLCD – 2016 National Land Cover Dataset - https://www.mrlc.gov/data/nlcd-2016-land-cover-conus NWI – National Wetlands Inventory - http://www.fws.gov/wetlands/ USGS – U.S. Geological Survey - http://www.usgs.gov/ NHD – National Hydrography Dataset - http://nhd.usgs.gov/ ESRI - GIS Mapping - http://www.esri.com/</p> | | | |



MVP Southgate Project

Docket No. CP19-14-000

Resource Report 11 Table Updates

October 2019

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|--|----------------|----------------------------|-------------------------|
| MVP Southgate Project Pipeline Class Locations | | | |
| Pipeline / County | Class Location | Beginning Approx. Milepost | Ending Approx. Milepost |
| H-605 Pipeline | | | |
| Pittsylvania | 1 | 0.00 | 0.47 |
| H-650 Pipeline | | | |
| Pittsylvania | 1 | 0.00 RR | 2.91 |
| Pittsylvania | 2 | 2.91 | 3.36 |
| Pittsylvania | 1 | 3.36 | 3.54 |
| Pittsylvania | 2 | 3.54 | 4.24 |
| Pittsylvania | 3 | 4.24 | 4.31 |
| Pittsylvania | 2 | 4.31 | 4.39 |
| Pittsylvania | 1 | 4.39 | 7.03 |
| Pittsylvania | 2 | 7.03 | 7.58 |
| Pittsylvania | 1 | 7.58 | 7.90 |
| Pittsylvania | 2 | 7.90 | 8.19 |
| Pittsylvania | 1 | 8.19 | 10.05 |
| Pittsylvania | 2 | 10.05 | 10.85 |
| Pittsylvania | 1 | 10.85 | 13.05 |
| Pittsylvania | 2 | 13.05 | 13.61 RR |
| Pittsylvania | 1 | 13.61 RR | 15.31 |
| Pittsylvania | 2 | 15.31 | 15.35 RR |
| Pittsylvania | 1 | 15.35 RR | 15.79 |
| Pittsylvania | 2 | 15.79 | 17.12 |
| Pittsylvania | 1 | 17.12 | 18.20 |
| Pittsylvania | 2 | 18.20 | 18.40 |
| Pittsylvania | 1 | 18.40 | 18.67 |
| Pittsylvania | 2 | 18.67 | 18.88 |
| Pittsylvania | 1 | 18.88 | 18.93 |
| Pittsylvania | 2 | 18.93 | 19.43 |
| Pittsylvania | 3 | 19.43 | 19.53 |
| Pittsylvania | 2 | 19.53 | 19.92 |
| Pittsylvania | 3 | 19.92 | 19.97 |
| Pittsylvania | 2 | 19.97 | 20.41 |
| Pittsylvania | 1 | 20.41 | 20.56 |
| Pittsylvania | 2 | 20.56 | 20.77 |
| Pittsylvania | 1 | 20.77 | 26.10 |
| Rockingham | 1 | 26.10 | 30.36 |
| Rockingham | 2 | 30.36 | 31.11 |
| Rockingham | 1 | 31.11 | 31.44 |
| Rockingham | 2 | 31.44 | 32.11 |
| Rockingham | 1 | 31.11 | 35.91 |
| Rockingham | 2 | 35.91 | 36.76 |
| Rockingham | 1 | 36.76 | 37.34 |

| REVISED [Oct 2019] - Table 11.2-1 | | | |
|--|----------------|----------------------------|-------------------------|
| MVP Southgate Project Pipeline Class Locations | | | |
| Pipeline / County | Class Location | Beginning Approx. Milepost | Ending Approx. Milepost |
| Rockingham | 2 | 37.34 | 37.54 |
| Rockingham | 1 | 37.54 | 37.76 |
| Rockingham | 2 | 37.76 | 37.95 |
| Rockingham | 1 | 37.95 | 38.04 |
| Rockingham | 2 | 38.04 | 38.31 |
| Rockingham | 1 | 38.31 | 38.48 |
| Rockingham | 2 | 38.48 | 38.63 |
| Rockingham | 1 | 38.63 | 39.48 |
| Rockingham | 2 | 39.48 | 39.82 |
| Rockingham | 1 | 39.82 | 40.19 |
| Rockingham | 2 | 40.19 | 40.75 |
| Rockingham | 1 | 40.75 | 42.08 |
| Rockingham | 2 | 42.08 | 42.48 |
| Rockingham | 1 | 42.48 | 43.00 |
| Rockingham | 2 | 43.00 | 43.25 |
| Rockingham | 1 | 42.25 | 44.21 |
| Rockingham | 2 | 44.21 | 45.11 |
| Rockingham | 1 | 45.11 | 48.32 |
| Rockingham | 2 | 48.32 | 48.68 |
| Rockingham | 1 | 48.68 | 49.00 |
| Rockingham | 2 | 49.00 | 49.44 |
| Rockingham | 1 | 49.44 | 52.50 |
| Rockingham | 2 | 52.50 | 52.64 |
| Alamance | 2 | 52.64 | 53.62 |
| Alamance | 1 | 53.62 | 54.94 |
| Alamance | 2 | 51.94 | 55.27 RR |
| Alamance | 1 | 55.27 RR | 55.54 RR |
| Alamance | 2 | 55.54 RR | 55.60 |
| Alamance | 1 | 55.60 | 55.69 |
| Alamance | 2 | 55.69 | 55.82 |
| Alamance | 1 | 55.82 | 56.39 |
| Alamance | 2 | 56.39 | 56.57 RR |
| Alamance | 1 | 56.57 RR | 56.73 |
| Alamance | 2 | 56.73 | 56.81 |
| Alamance | 3 | 56.81 | 56.94 |
| Alamance | 2 | 56.94 | 57.59 |
| Alamance | 1 | 57.59 | 57.62 |
| Alamance | 2 | 57.62 | 58.11 |
| Alamance | 1 | 58.11 | 58.14 |
| Alamance | 2 | 58.14 | 58.46 |
| Alamance | 1 | 58.46 | 58.49 |

| REVISED [Oct 2019] - Table 11.2-1 | | | |
|--|----------------|----------------------------|-------------------------|
| MVP Southgate Project Pipeline Class Locations | | | |
| Pipeline / County | Class Location | Beginning Approx. Milepost | Ending Approx. Milepost |
| Alamance | 2 | 58.49 | 58.57 RR |
| Alamance | 1 | 58.57 RR | 59.02 RR |
| Alamance | 2 | 59.02 RR | 59.81 |
| Alamance | 1 | 59.81 | 59.85 |
| Alamance | 2 | 59.85 | 60.09 |
| Alamance | 1 | 60.09 | 60.29 |
| Alamance | 2 | 60.29 | 60.53 |
| Alamance | 1 | 60.53 | 62.37 RR |
| Alamance | 2 | 62.37 RR | 62.49 RR |
| Alamance | 1 | 62.49 RR | 62.59 |
| Alamance | 2 | 62.59 | 63.11 RR |
| Alamance | 1 | 63.11 RR | 63.41 RR |
| Alamance | 2 | 63.41 RR | 63.62 |
| Alamance | 1 | 63.62 | 64.27 |
| Alamance | 2 | 64.27 | 65.71 |
| Alamance | 1 | 65.71 | 65.98 RR |
| Alamance | 2 | 65.98 RR | 66.58 RR |
| Alamance | 1 | 66.58 RR | 66.60 RR |
| Alamance | 2 | 66.60 RR | 67.22 RR |
| Alamance | 1 | 67.22 RR | 67.58 RR |
| Alamance | 2 | 67.58 RR | 67.56 |
| Alamance | 1 | 67.56 | 67.86 |
| Alamance | 2 | 67.86 | 67.98 |
| Alamance | 1 | 67.98 | 68.14 |
| Alamance | 2 | 68.14 | 68.32 |
| Alamance | 1 | 68.32 | 68.34 |
| Alamance | 2 | 68.34 | 68.38 |
| Alamance | 3 | 68.38 | 68.74 |
| Alamance | 1 | 68.74 | 68.97 |
| Alamance | 3 | 68.97 | 70.04 |
| Alamance | 1 | 70.04 | 71.85 |
| Alamance | 2 | 71.85 | 71.99 RR |
| Alamance | 1 | 71.99 RR | 72.56 |
| Alamance | 2 | 72.56 | 73.17 RR |

| REVISED [Oct 2019] - Table 11.2-2 | | | |
|------------------------------------|--------------------|-----------------|---------------|
| Location of High Consequence Areas | | | |
| Pipeline / County | Beginning Milepost | Ending Milepost | Length (mile) |
| Virginia | | | |
| H-605 Pipeline | | | |
| Pittsylvania | NA | NA | NA |
| H-650 Pipeline | | | |
| Pittsylvania | 2.89 | 3.34 | 0.45 |
| Pittsylvania | 4.04 | 4.51 | 0.47 |
| Pittsylvania | 19.19 | 20.17 | 0.98 |
| North Carolina | | | |
| Rockingham | 40.41 RR | 40.60 | 0.25 |
| Alamance | 56.69 | 57.06 | 0.36 |
| Alamance | 64.79 | 65.05 RR | 0.26 |
| Alamance | 69.19 | 70.02 | 0.91 |
| Alamance | 72.70 | 72.99 RR | 0.29 |
| NA = Not Applicable. | | | |



MVP Southgate Project

Docket No. CP19-14-000

**Revised Alignment Sheets, Project Drawings,
and KMZ Files**

October 2019



MVP Southgate Project

Docket No. CP19-14-000

Revised Alignment Sheets
(Provided Under Separate Cover)

October 2019



MVP Southgate Project

Docket No. CP19-14-000

USGS Quadrangle Maps
(Provided Under Separate Cover)

October 2019



MVP Southgate Project

Docket No. CP19-14-000

KMZ Files

(Provided Under Separate Cover)

October 2019



MVP Southgate Project

Docket No. CP19-14-000

Contractor Yard Drawings

October 2019

MVP Southgate Project



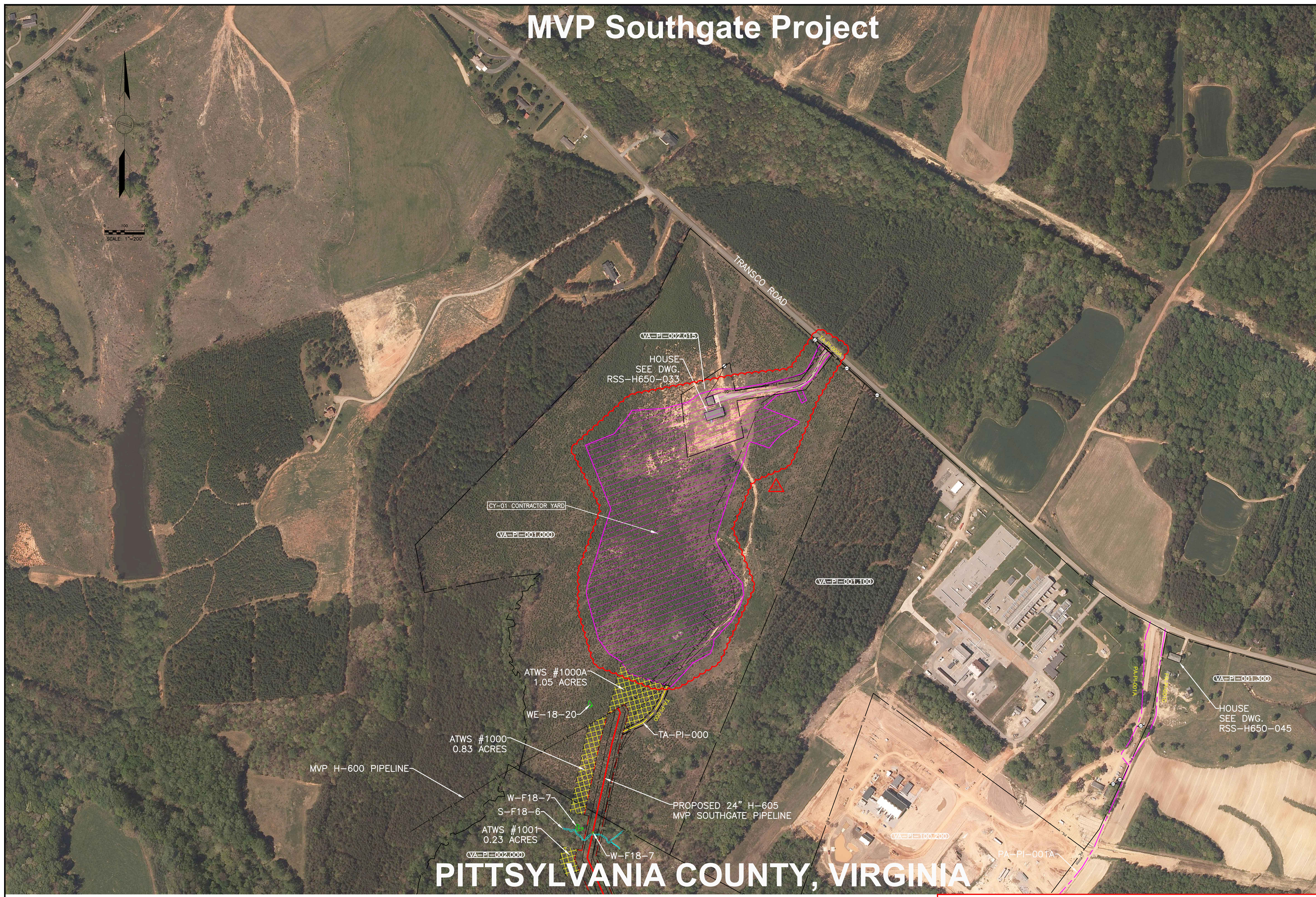
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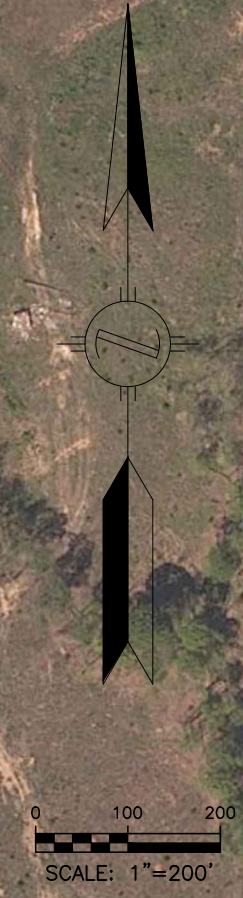
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PIPELINE CONTRACTOR YARD
MVP SOUTHGATE PROJECT

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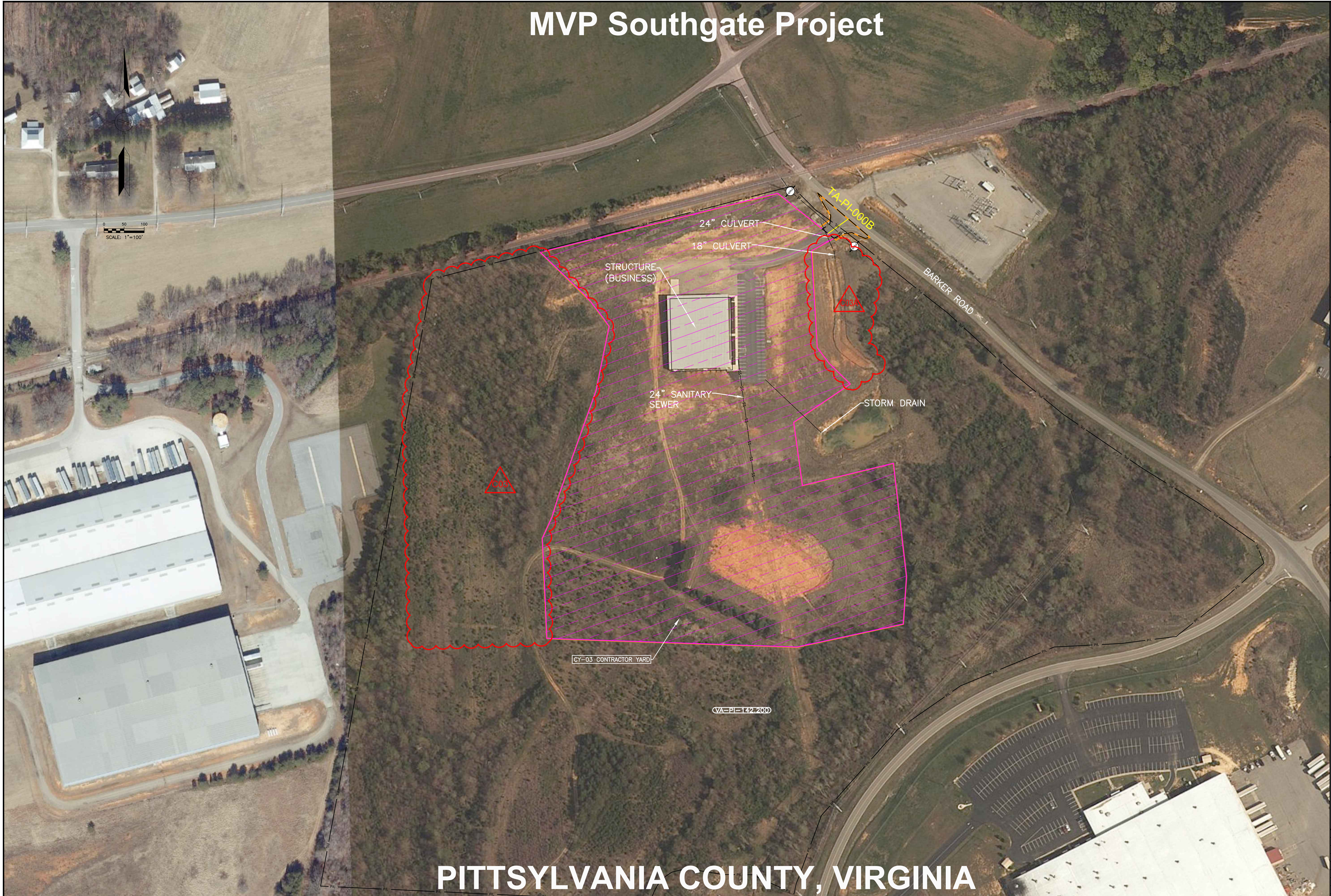


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PIPELINE CONTRACTOR YARD

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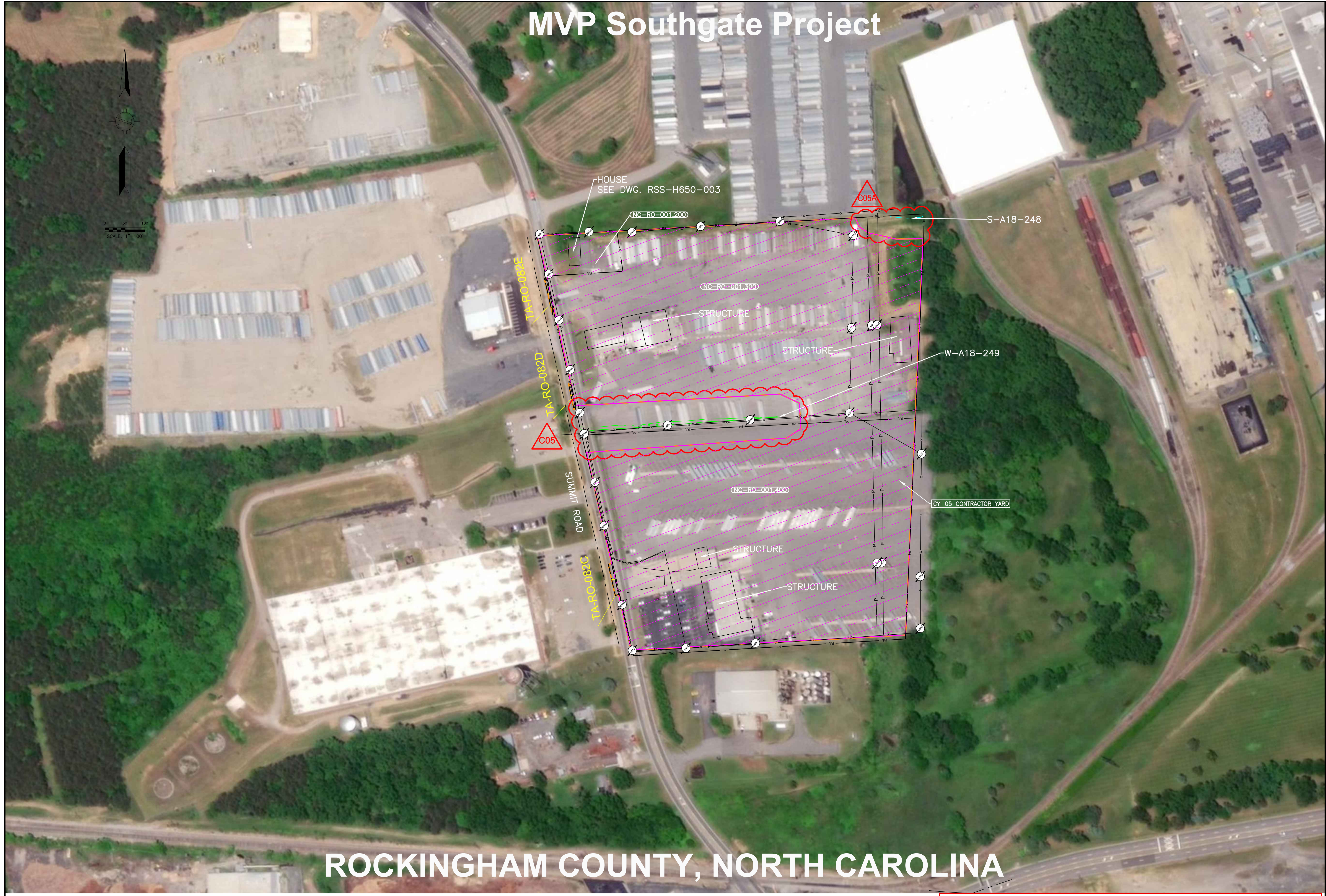
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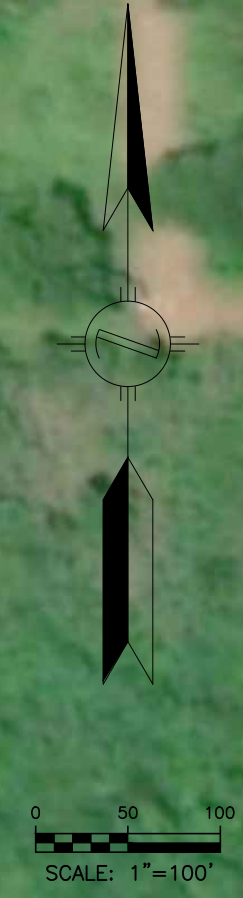
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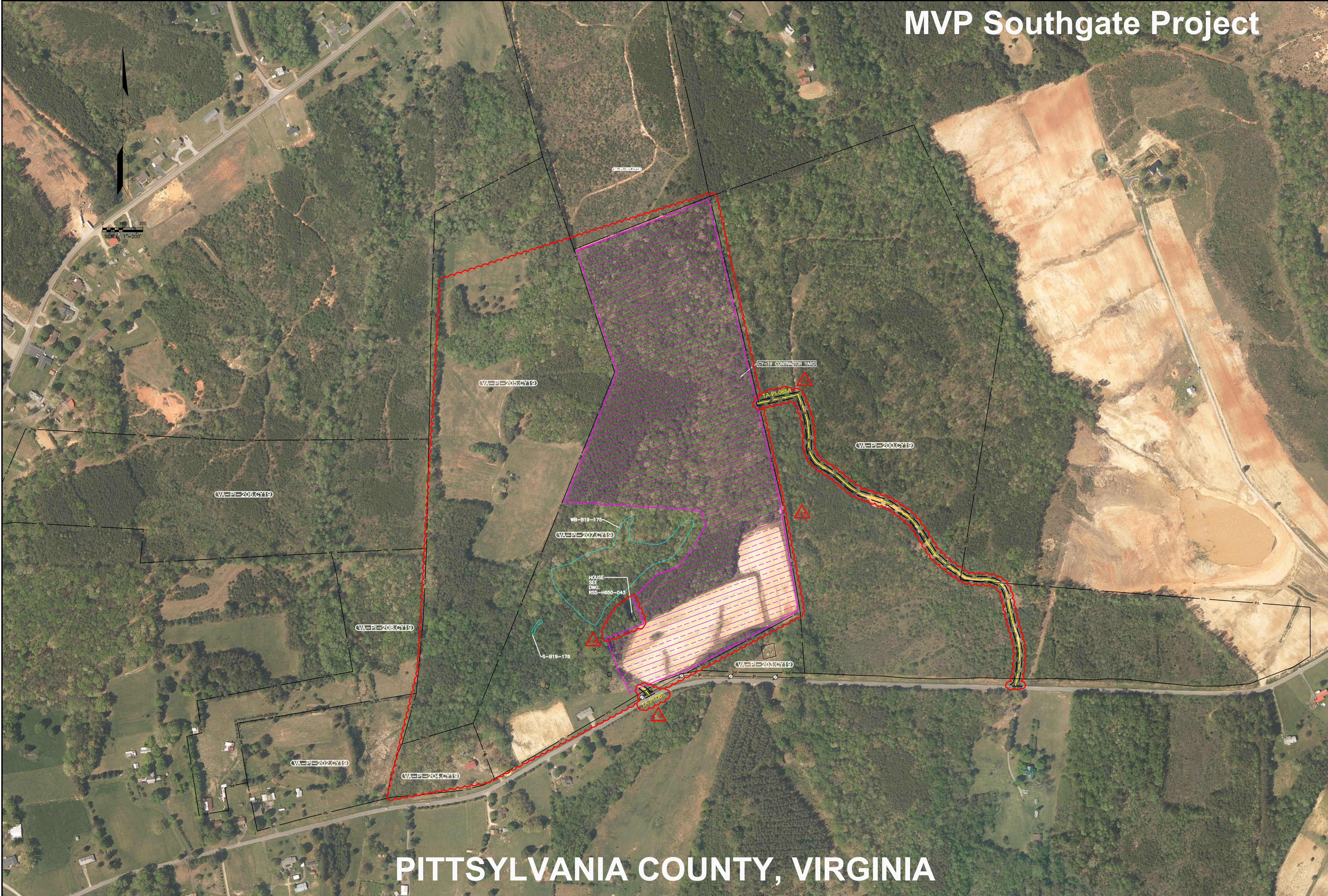
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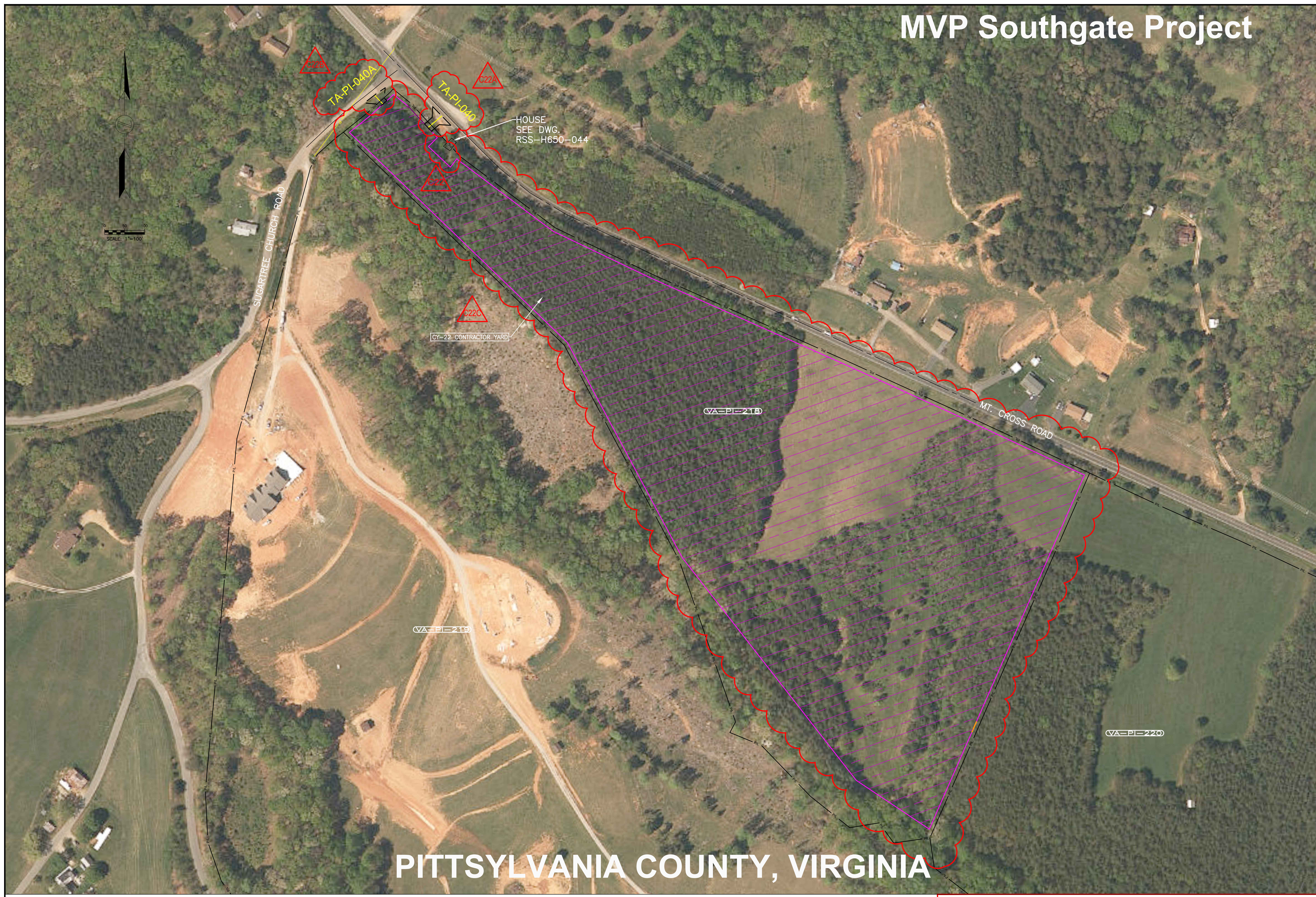
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