



MVP Southgate Project

Docket No. PF18-4-000

Draft

Resource Report 1 – General Project Description

Appendix 1-K

August 2018

MVP Southgate Project

Docket No. PF18-4-000

Draft Resource Report 1

Appendix 1-K

Agency Correspondence

[Correspondence to Date]

Federal Correspondence



Wannalancit Mills
650 Suffolk Street, Suite 200
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCSolutions.com

July 5, 2018

Aaron Blair - 3EA30
U.S. Environmental Protection Agency – Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

**RE: Mountain Valley, LLC – MVP Southgate Project
Electronic Files**

Dear Mr. Blair:

On behalf of Alex Miller, Environmental Project Manager, I have enclosed a flash drive containing electronic GIS shapefiles and a Google Earth (.kmz) file of Mountain Valley Pipeline, LLC's proposed MVP Southgate Project. The Projects includes approximately 72 miles of 24-inch-diameter natural gas pipeline in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. The shapefiles and kmz file show the proposed pipeline centerline.

If you have any questions regarding the information provided with this letter please do not hesitate to contact me at 978-697-0854 or via email JZimmer@trcsolutions.com.

Regards,

A handwritten signature in black ink that reads "John Zimmer". The signature is fluid and cursive, with a long horizontal stroke at the end.

John Zimmer
Project Manager, TRC

Cc: Alex Miller, NextEra

ATTACHMENT 1

MVP Southgate Project Electronic Files



Wannalancit Mills
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Lowell, MA 01854

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978.453.1995 FAX

www.TRCSolutions.com

July 5, 2018

Maria R. Clark
NEPA Program Office - Region 4
U.S. Environmental Protection Agency
61 Forsyth, Street South West
Atlanta, GA 30303

**RE: Mountain Valley, LLC – MVP Southgate Project
Electronic Files**

Dear Ms. Clark:

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John Zimmer
Project Manager, TRC

Cc: Alex Miller, NextEra

ATTACHMENT 1

MVP Southgate Project Electronic Files



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Brian Loadholt, Supervisory Soil Conservationist
USDA NRCS
Burlington Service Center
209 N Graham Hopedale Road
Burlington, NC 27217-2971

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Mr. Loadholt:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

On May 3, 2018, Mountain Valley filed a request with the Federal Energy Regulatory Commission (“FERC”) to use the National Environmental Policy Act pre-filing process (“Pre-filing Process”) for the MVP Southgate Project and the FERC issued a Pre-Filing docket number (PF18-4-000) to place information related to the Project into the public record. On May 15, 2018, the FERC granted Mountain Valley’s Pre-Filing request. The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating the project prior to filing a formal application with the FERC. Following the Pre-filing Process, Mountain Valley will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently targeted to be filed in November 2018. All other federal agency applications are planned to be filed in a similar time frame.

In North Carolina, the proposed Project facilities include approximately 26 and 20 miles of 24-inch-diameter natural gas pipeline in Rockingham and Alamance County, respectively. Aboveground facilities in Rockingham County include the Russell Compressor Station in Rockingham County, a pig launcher, two mainline valves, and two meter stations. In Alamance County, the aboveground facilities include a pig receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this attachment also contains USGS quadrangle excerpts of the facilities in North Carolina and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

Mountain Valley is in the process of collecting environmental resource data to evaluate and design the MVP Southgate Project facilities. With this information, TRC respectfully requests your review of the enclosed information to determine if the Project areas will cross or be within 0.50 mile of the following sensitive environmental areas:

- Land currently in agricultural use
- Land with agricultural restrictions
- Land with Specialty crops
- Land with Grazing allotments
- Conservation Resource Protection lands
- Soils highly susceptible to compaction
- Soils with severe erosion potential
- Soils with poor re-vegetation potential
- Soils classified as prime farmlands or farmlands of statewide importance
- Noxious weeds potentially present or having the potential to colonize the restored workspace
- Recommended seed mixes for restoration activities.

Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

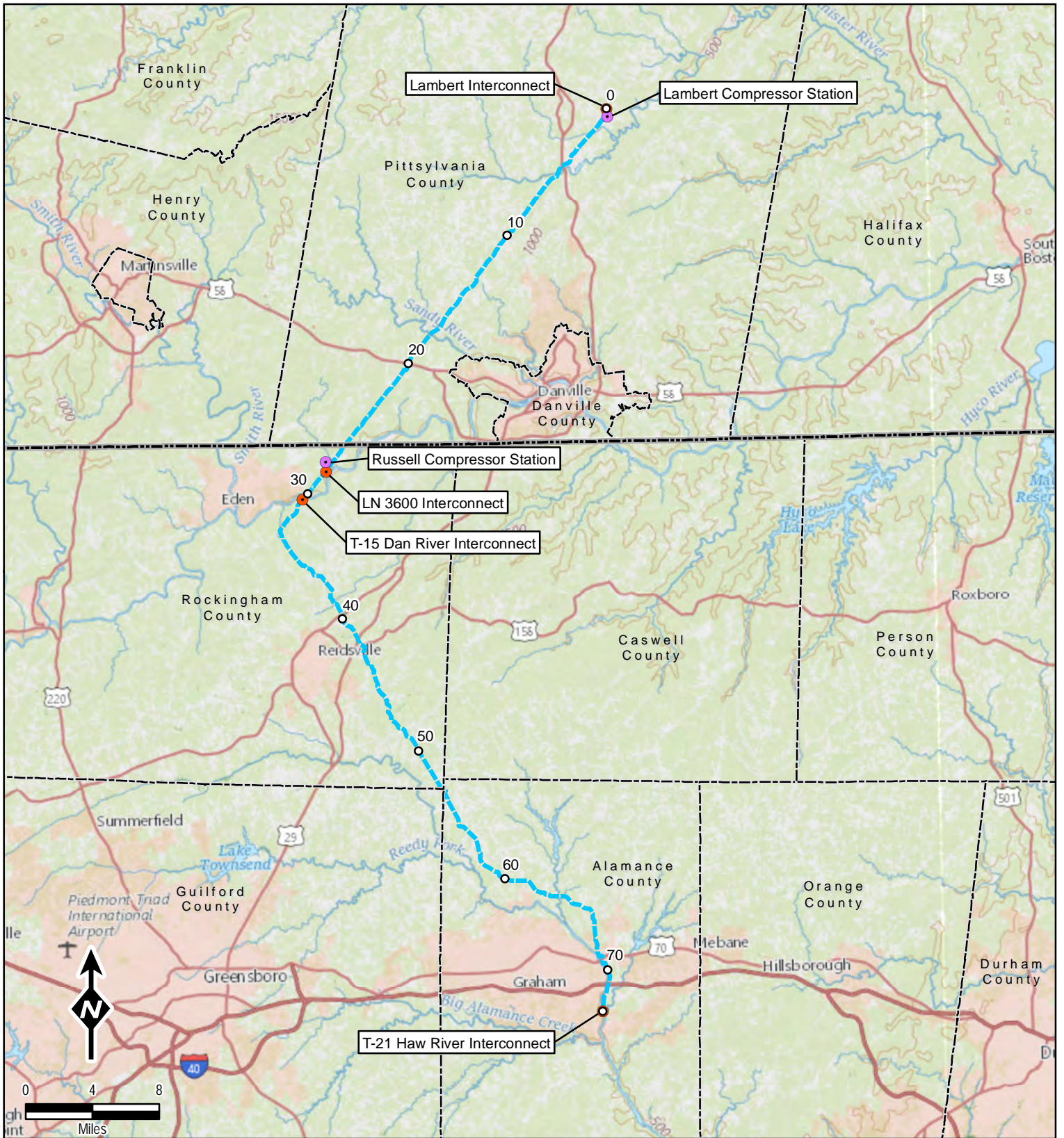
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



Legend

- - - Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- - - County Boundary
- - - State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

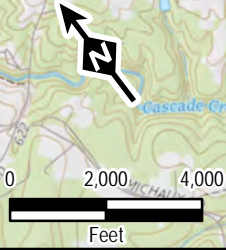
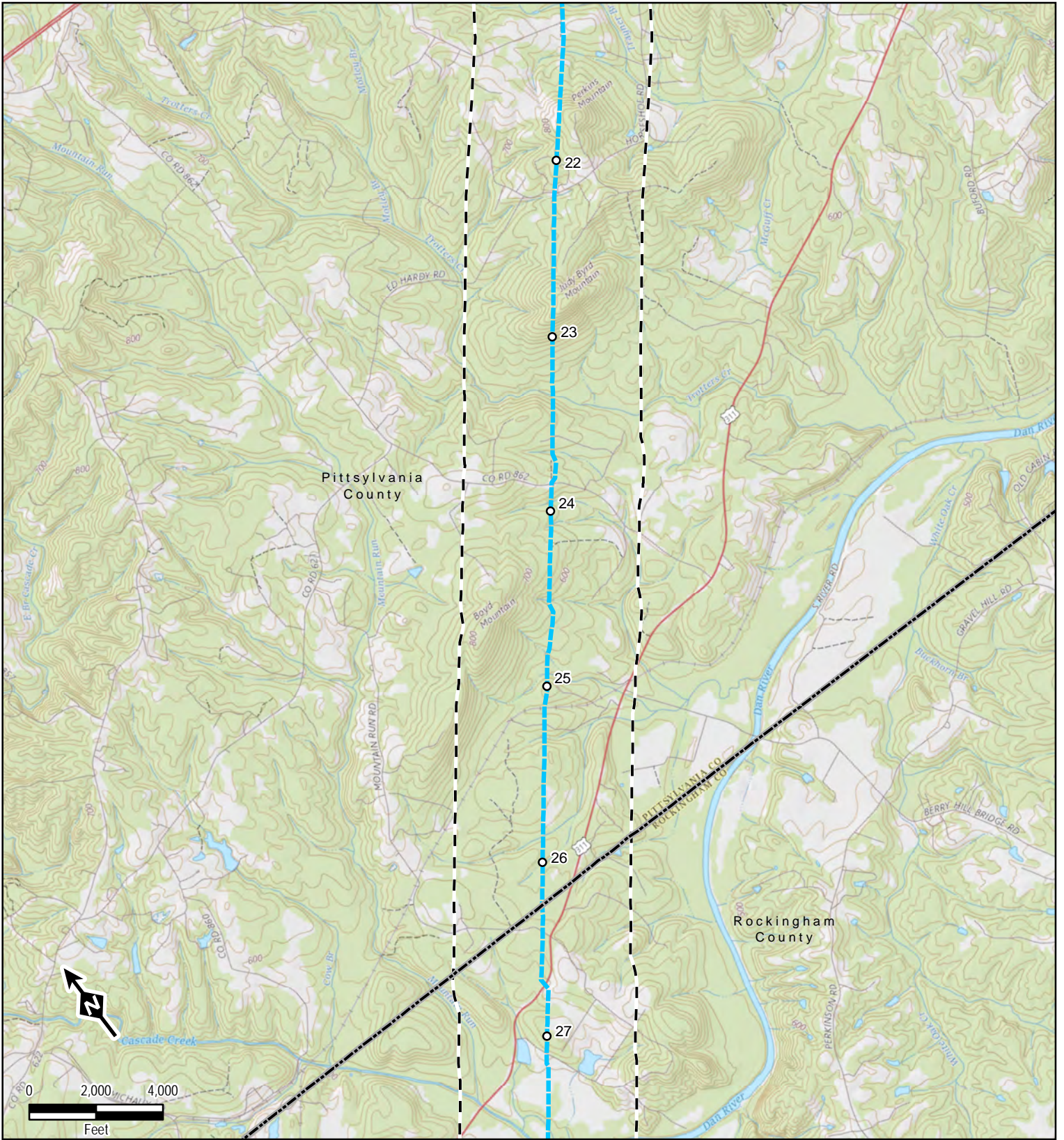
Mountain Valley
PIPELINE, LLC

Project Overview
Map

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

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Data Sources: ESRI, USGS, TRC, EQT

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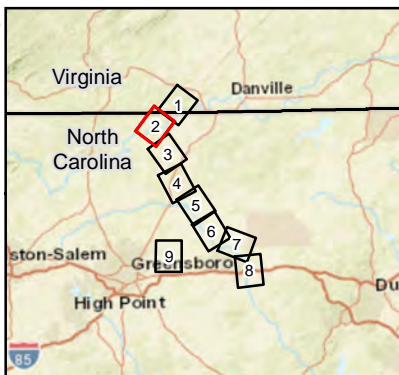
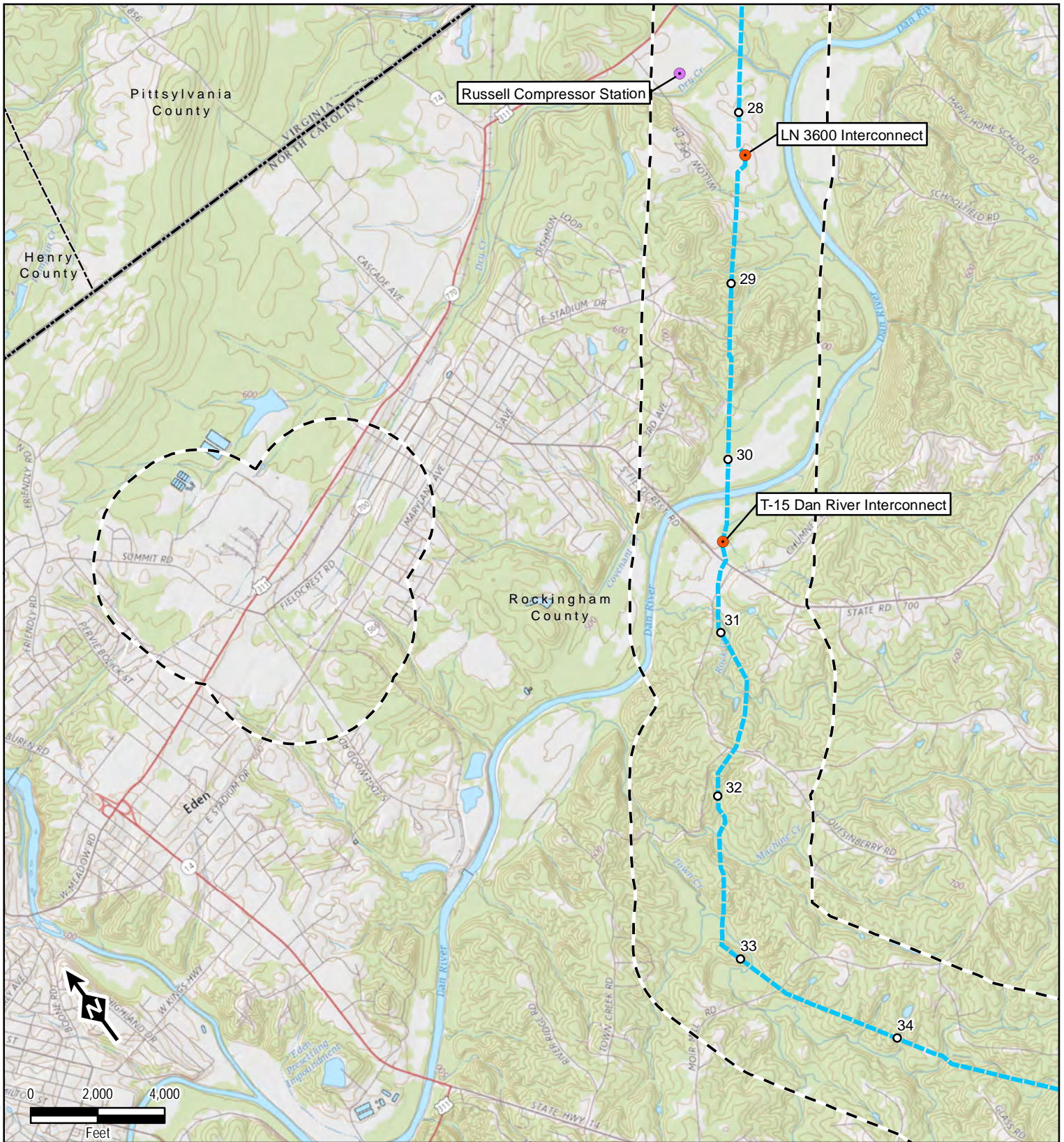


**North Carolina
Facilities Map**

Sheet 1 of 9



600 Willowbrook Ln
West Chester, PA 19382



Legend

- Mileposts
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Mountain Valley PIPELINE LLC

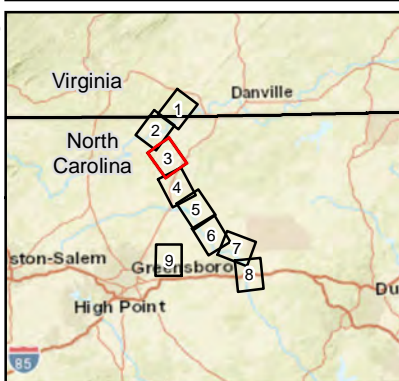
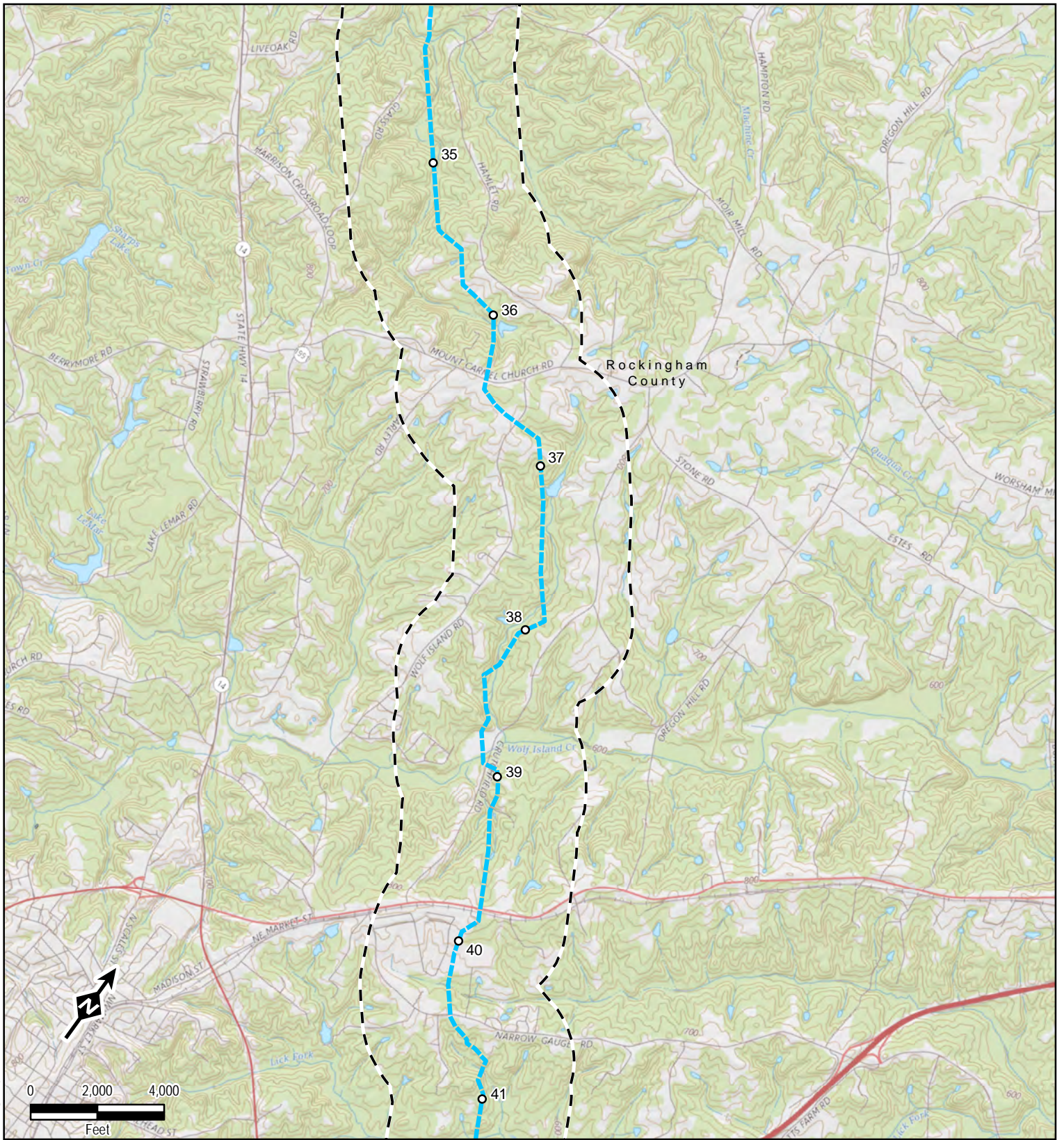
North Carolina Facilities Map

Sheet 2 of 9

TRC
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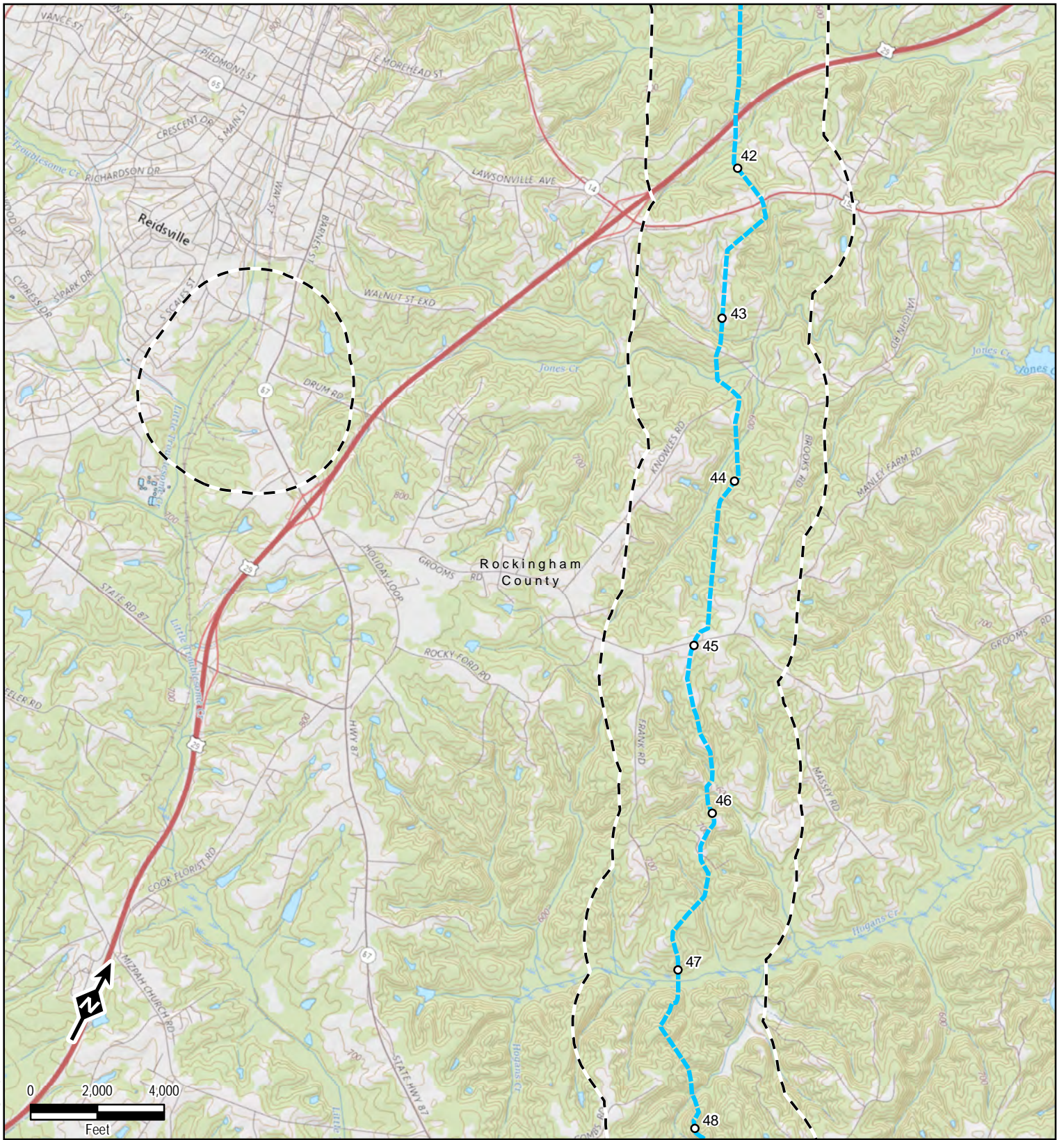
North Carolina Facilities Map

Sheet 3 of 9

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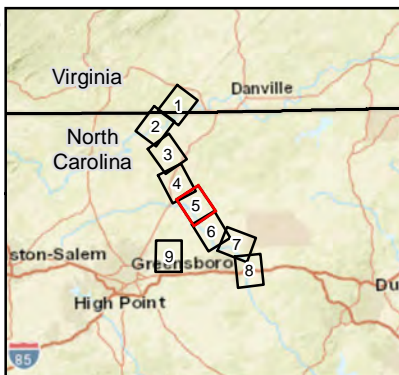
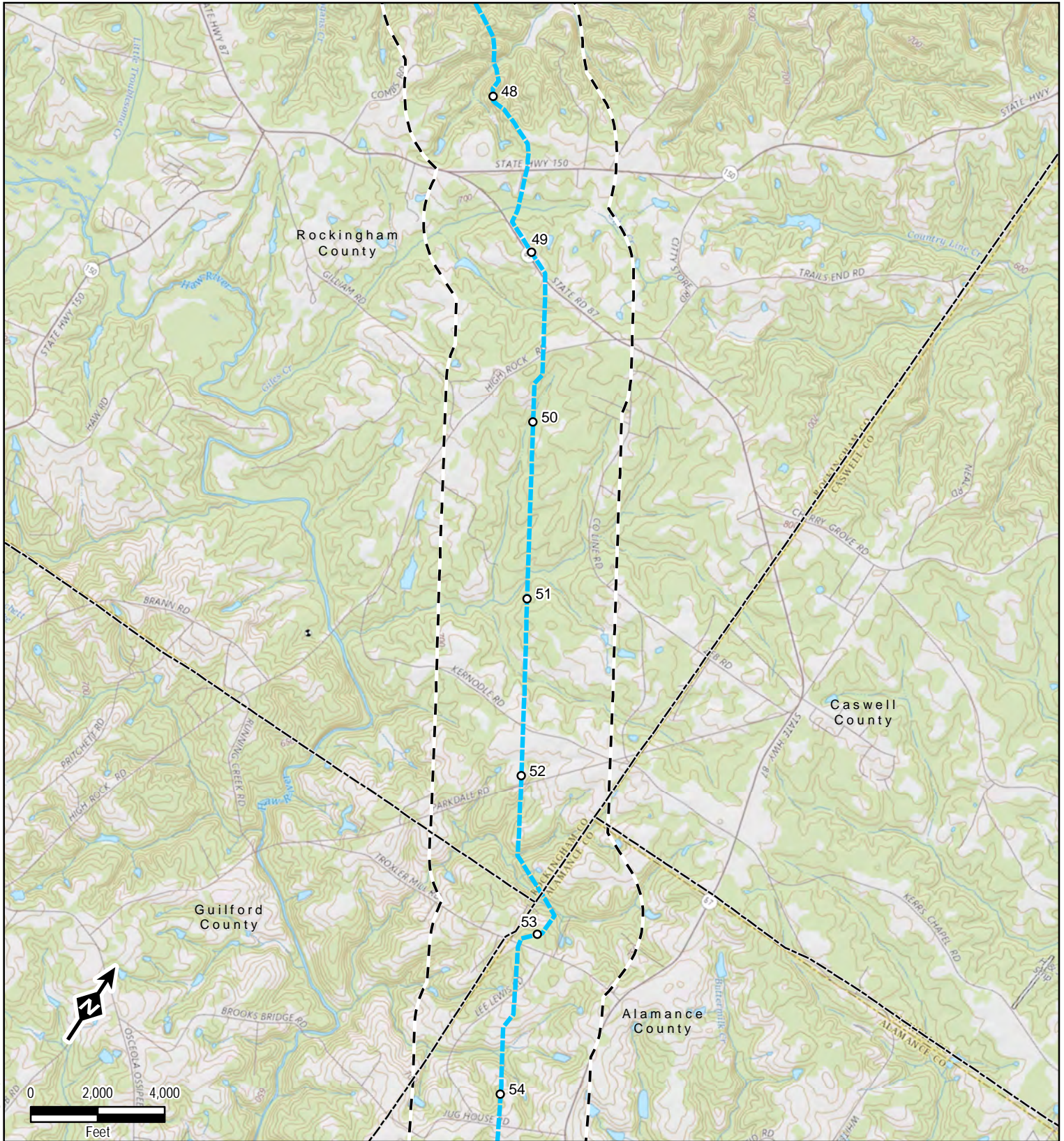
North Carolina Facilities Map

Sheet 4 of 9

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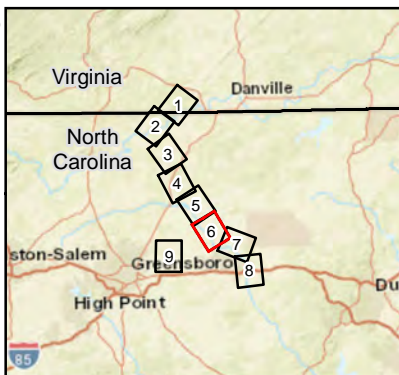
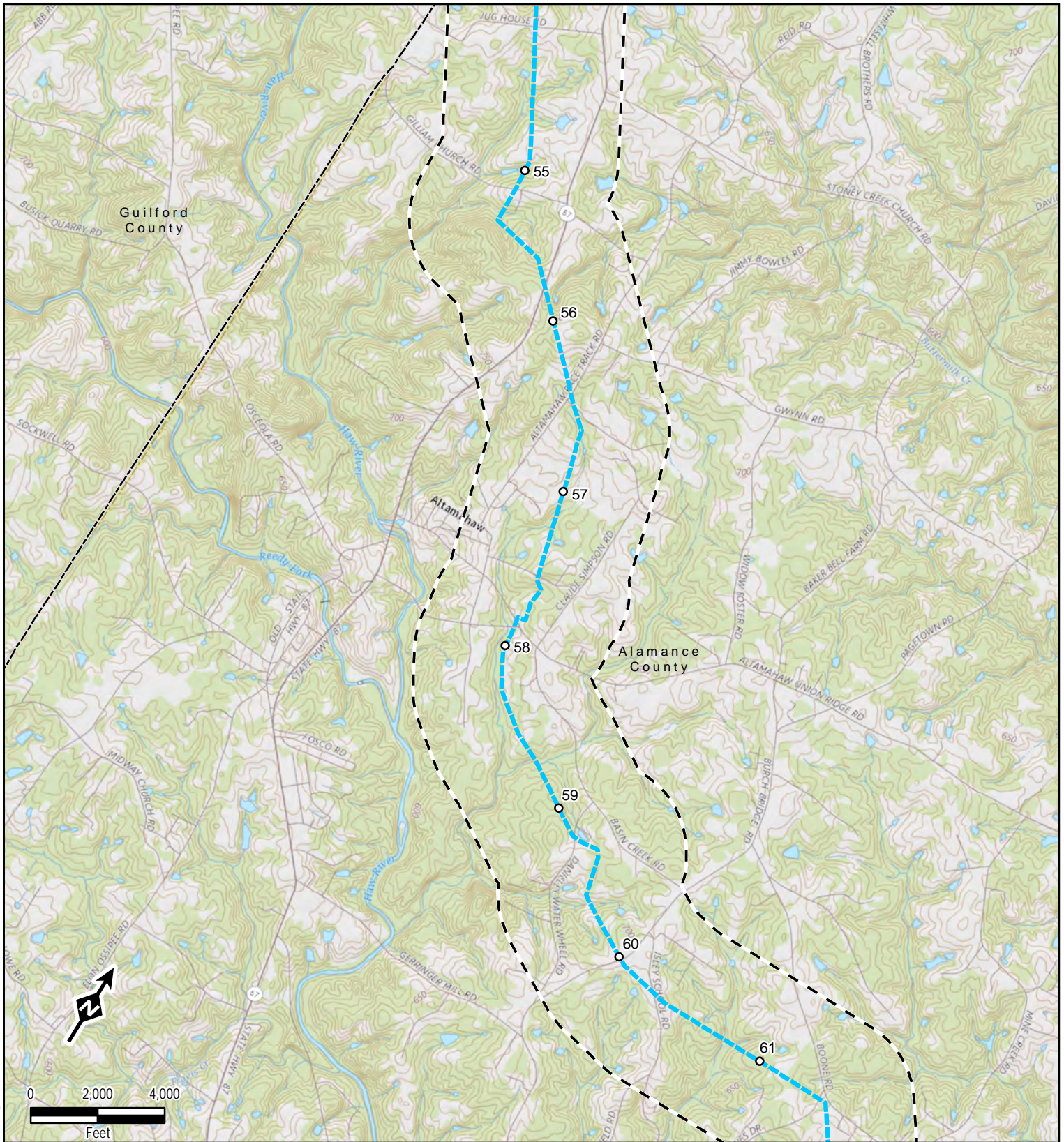


**North Carolina
 Facilities Map**

Sheet 5 of 9



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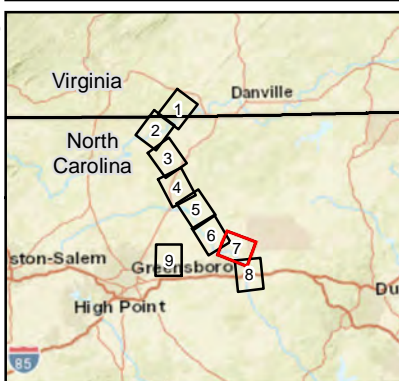
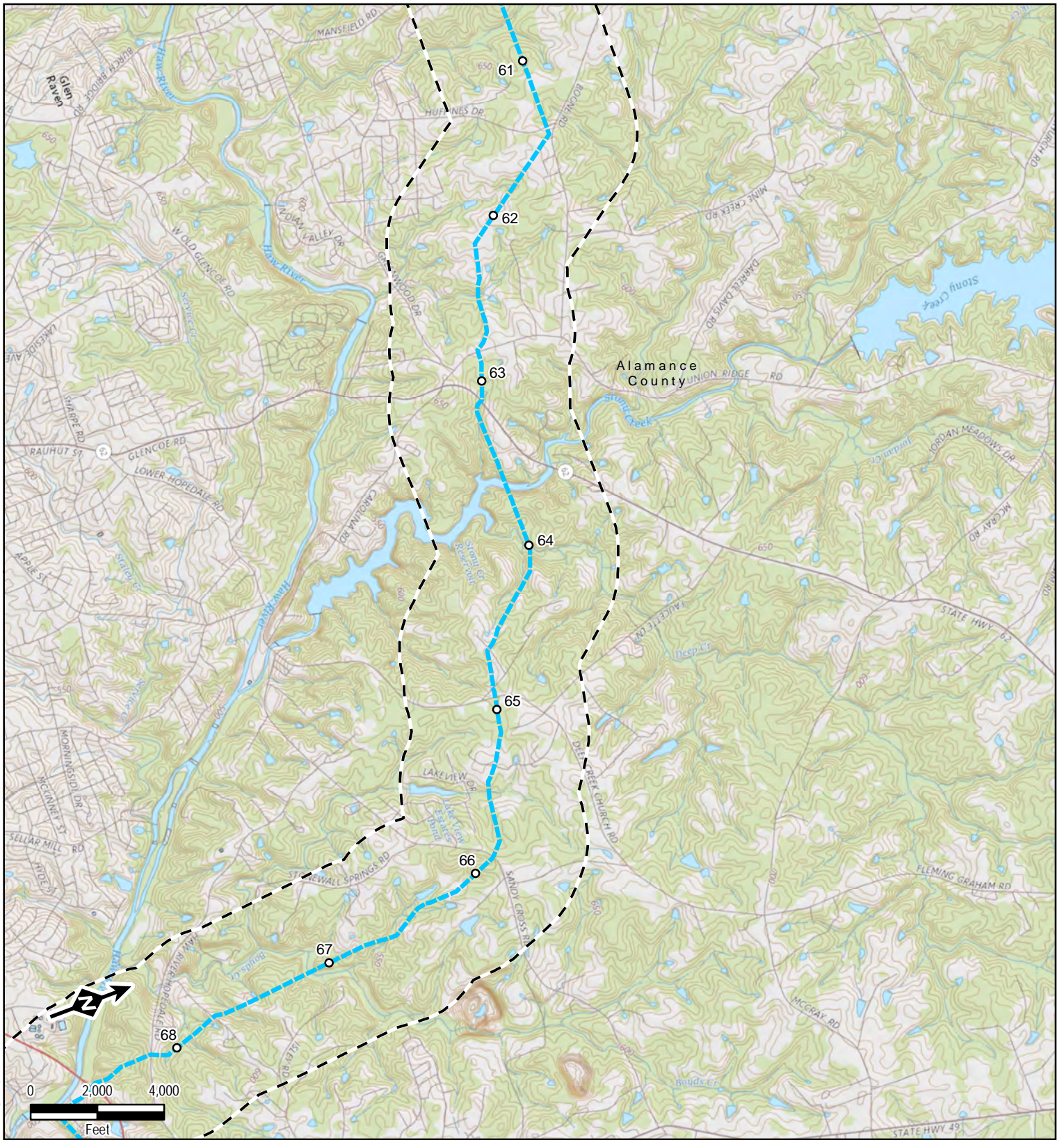
North Carolina Facilities Map

Sheet 6 of 9



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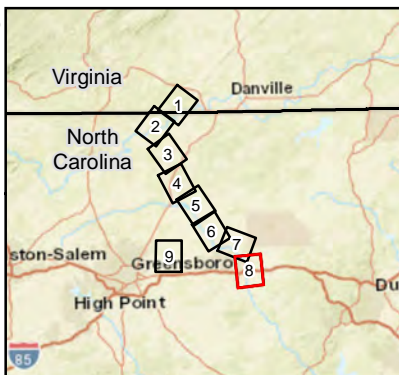
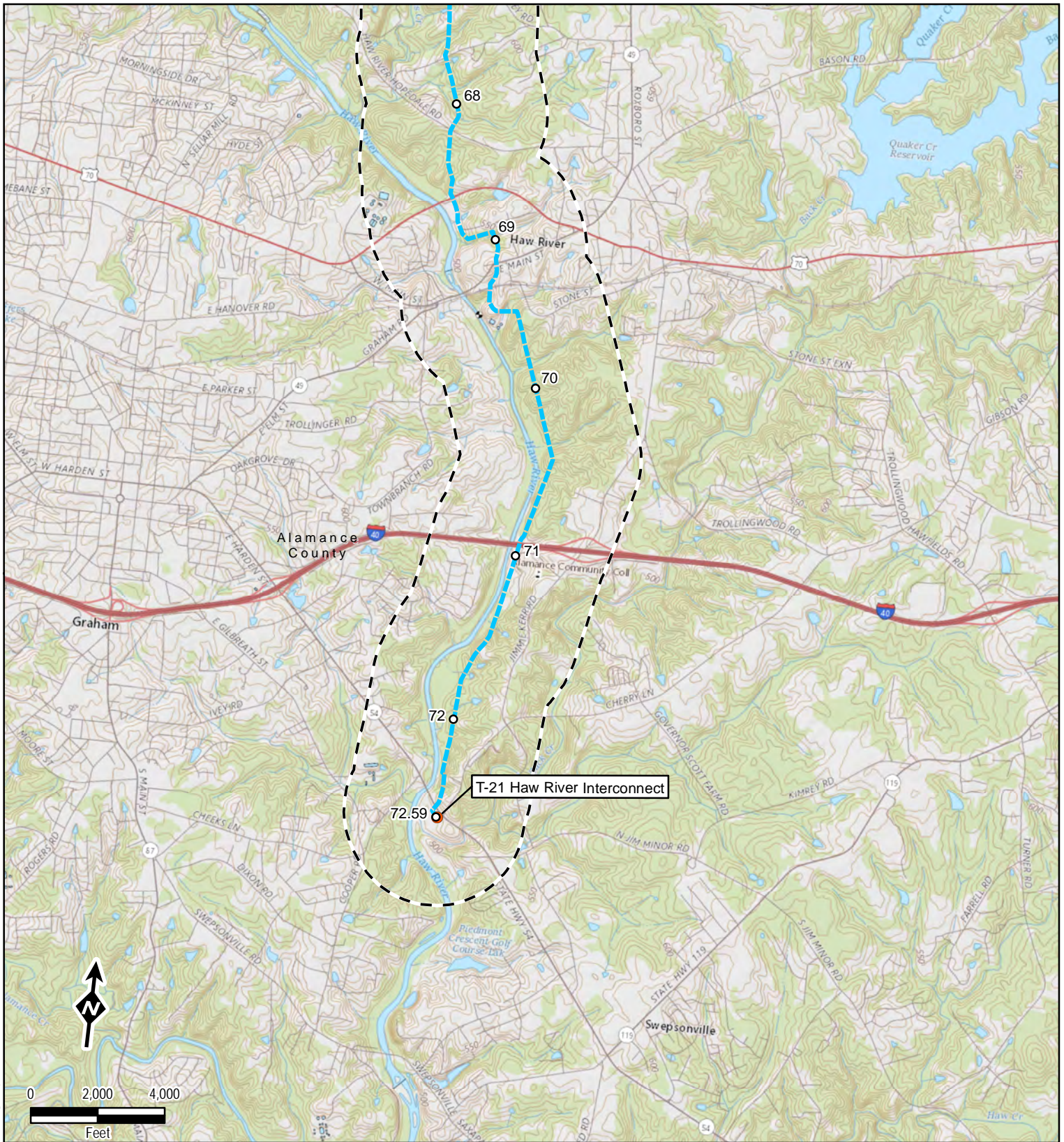
**North Carolina
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Sheet 7 of 9

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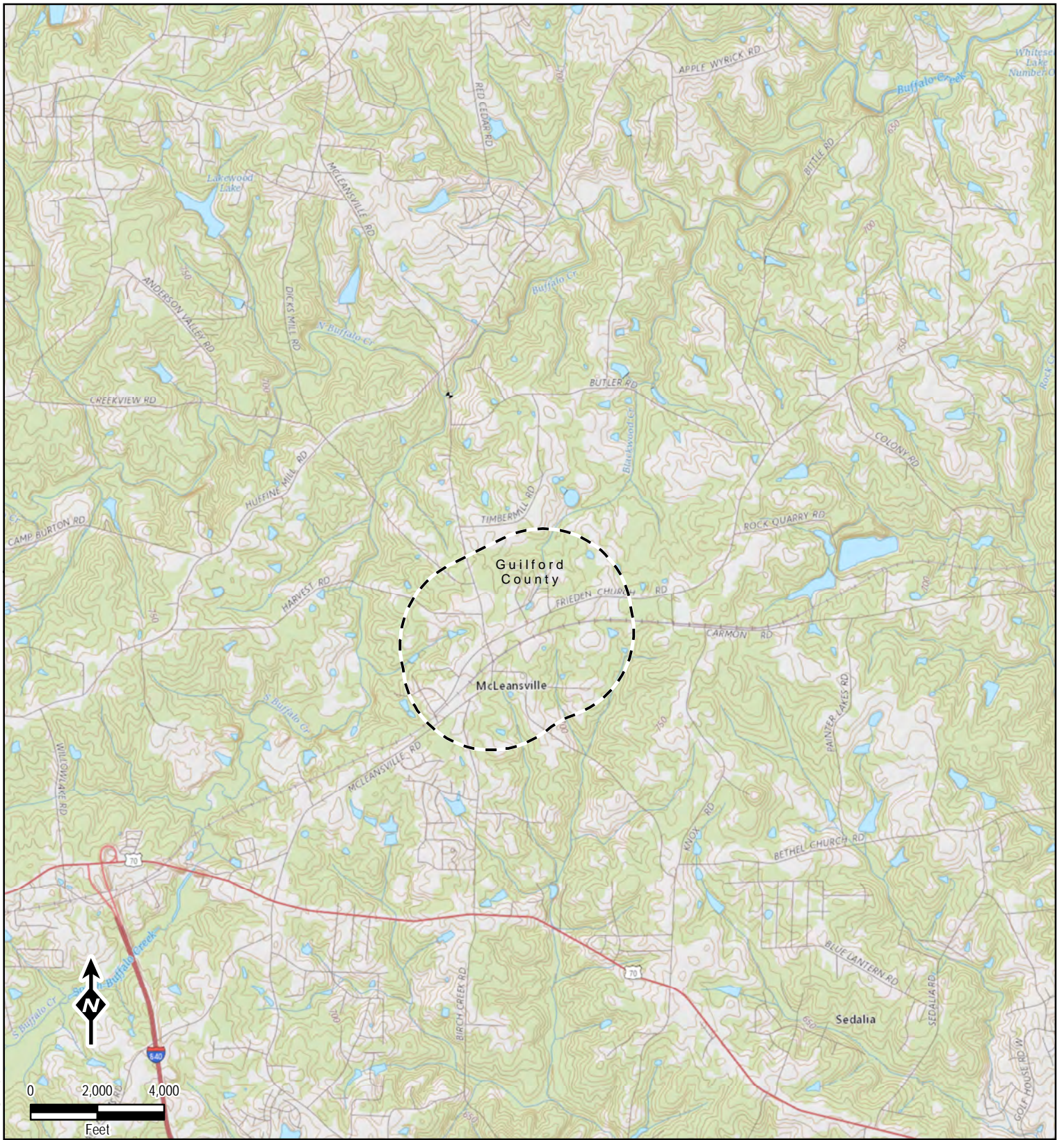
North Carolina Facilities Map

Sheet 8 of 9

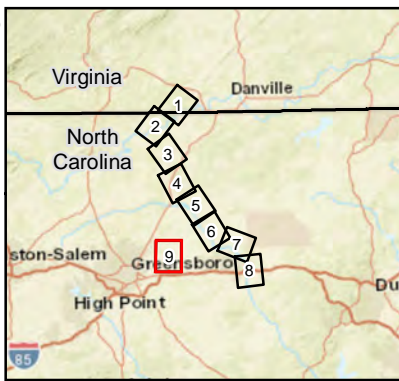
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North Carolina Facilities Map

Sheet 9 of 9





625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Trenton Howell, District Conservationist
USDA NRCS
Chatham Service Center
19783 US Hwy No. 29
Suite D
Chatham, VA 24531

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

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Regards,



Alex V. Miller
MVP Southgate Permitting Lead

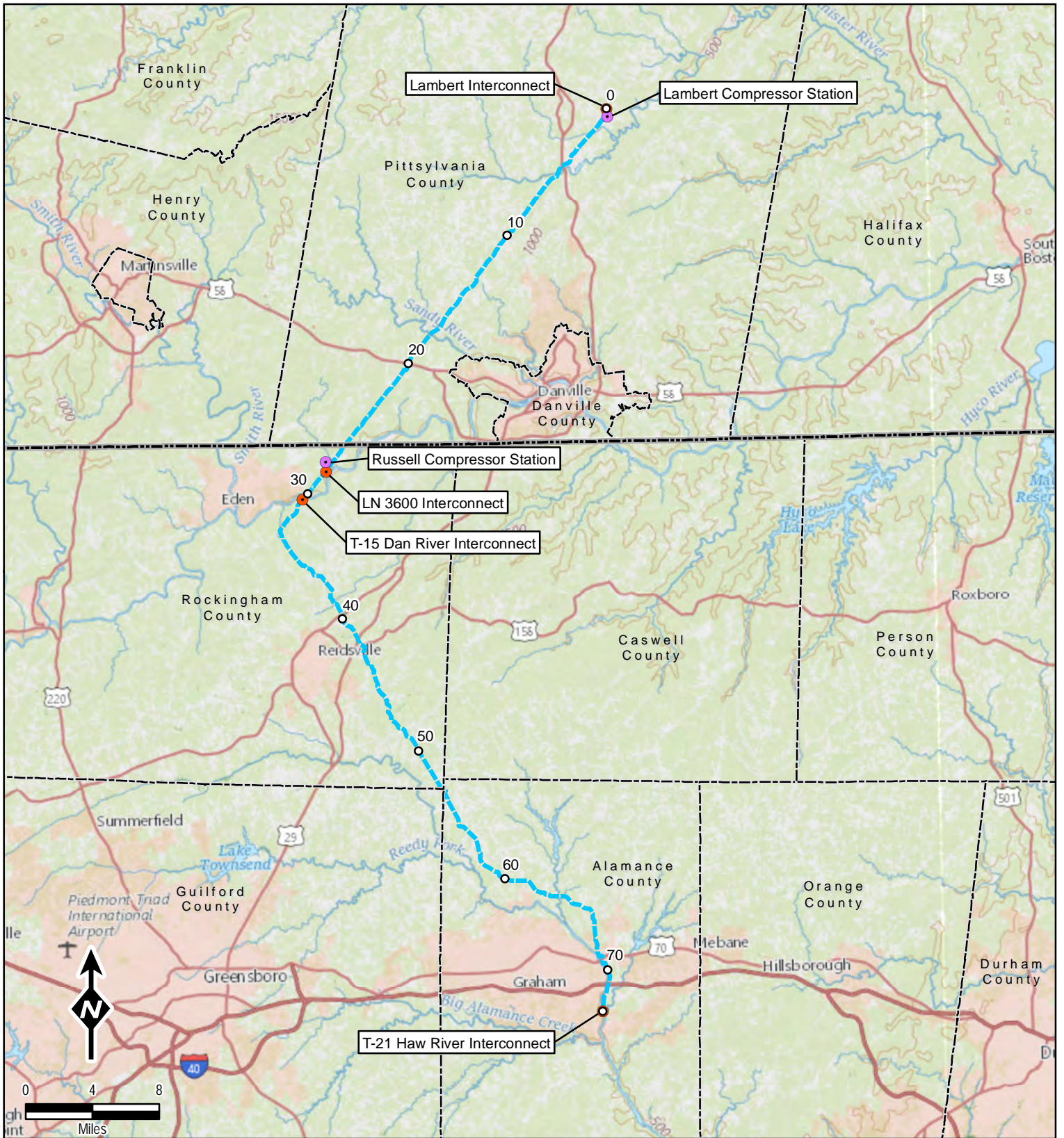
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in Virginia



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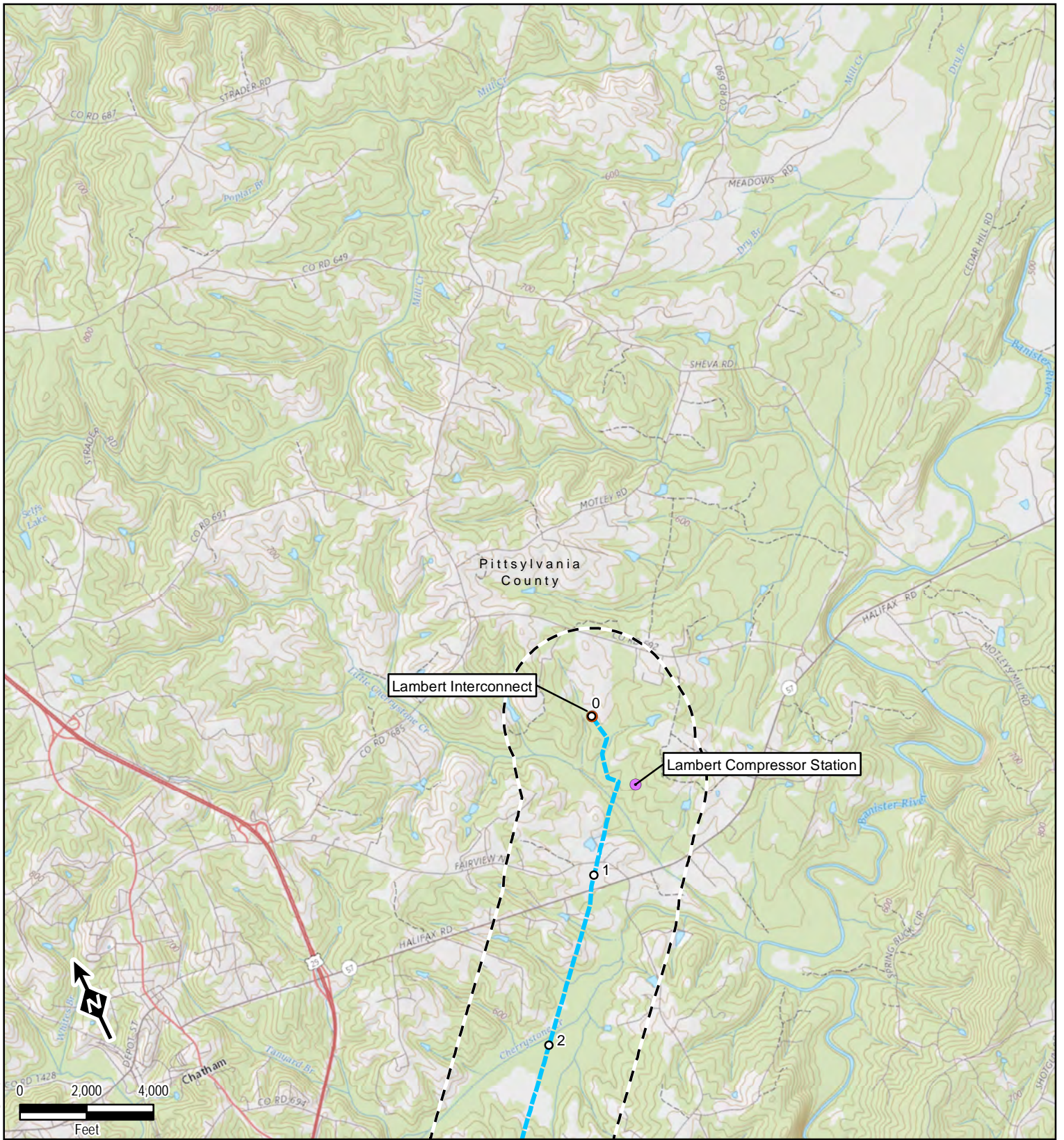
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Mountain Valley
PIPELINE, LLC

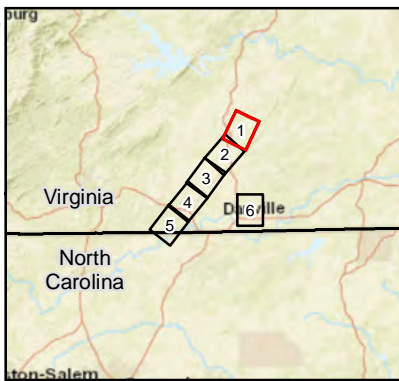
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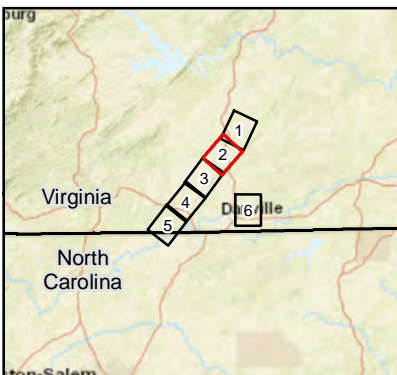
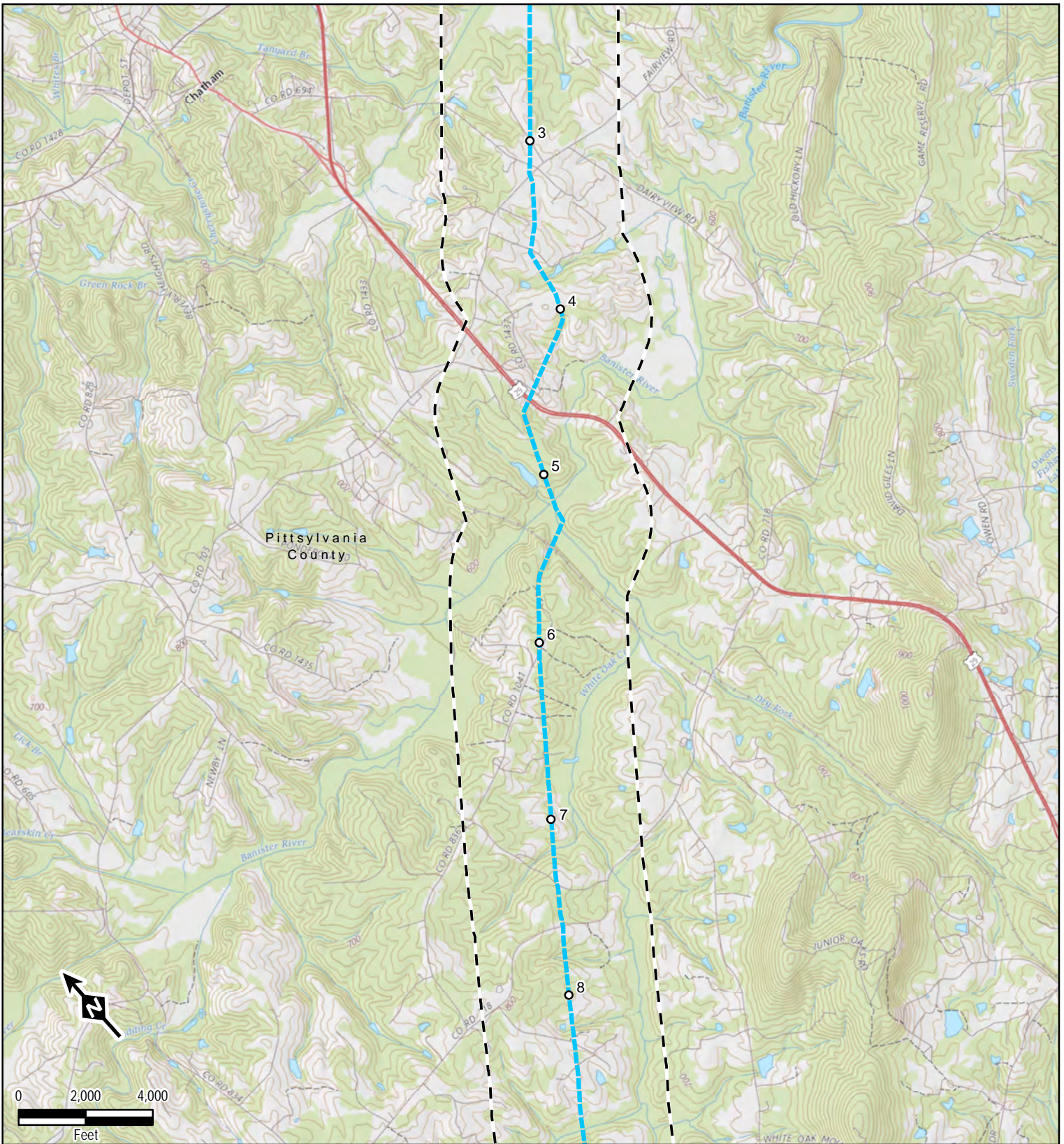
Virginia Facilities Map

Sheet 1 of 6



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Mountain Valley
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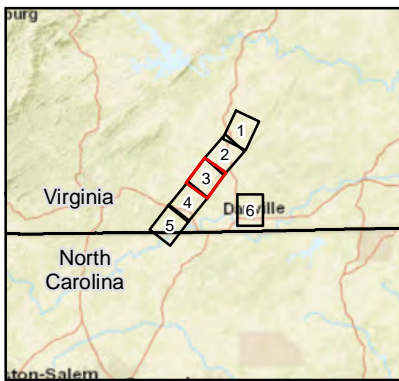
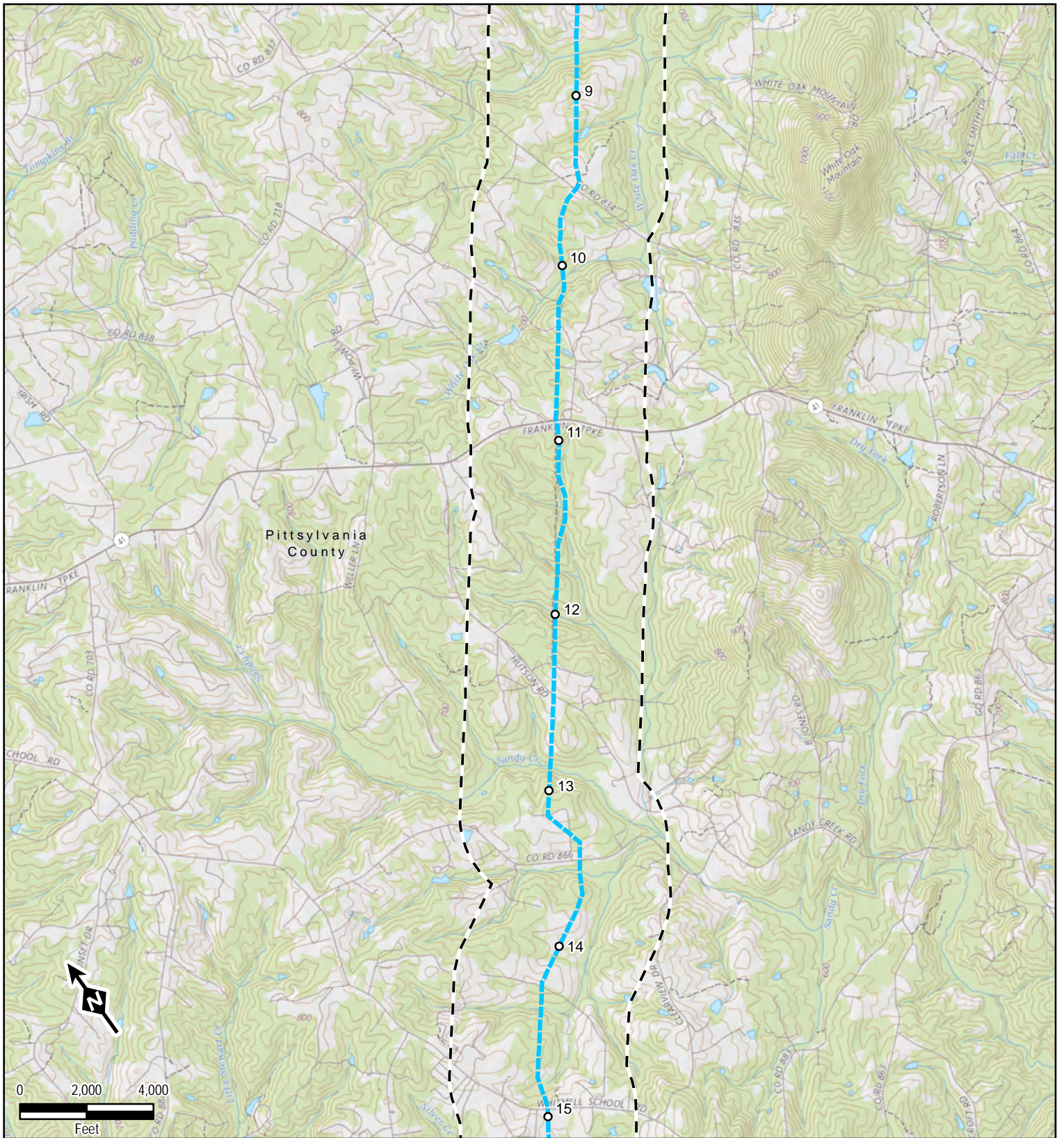
Virginia Facilities Map

Sheet 2 of 6

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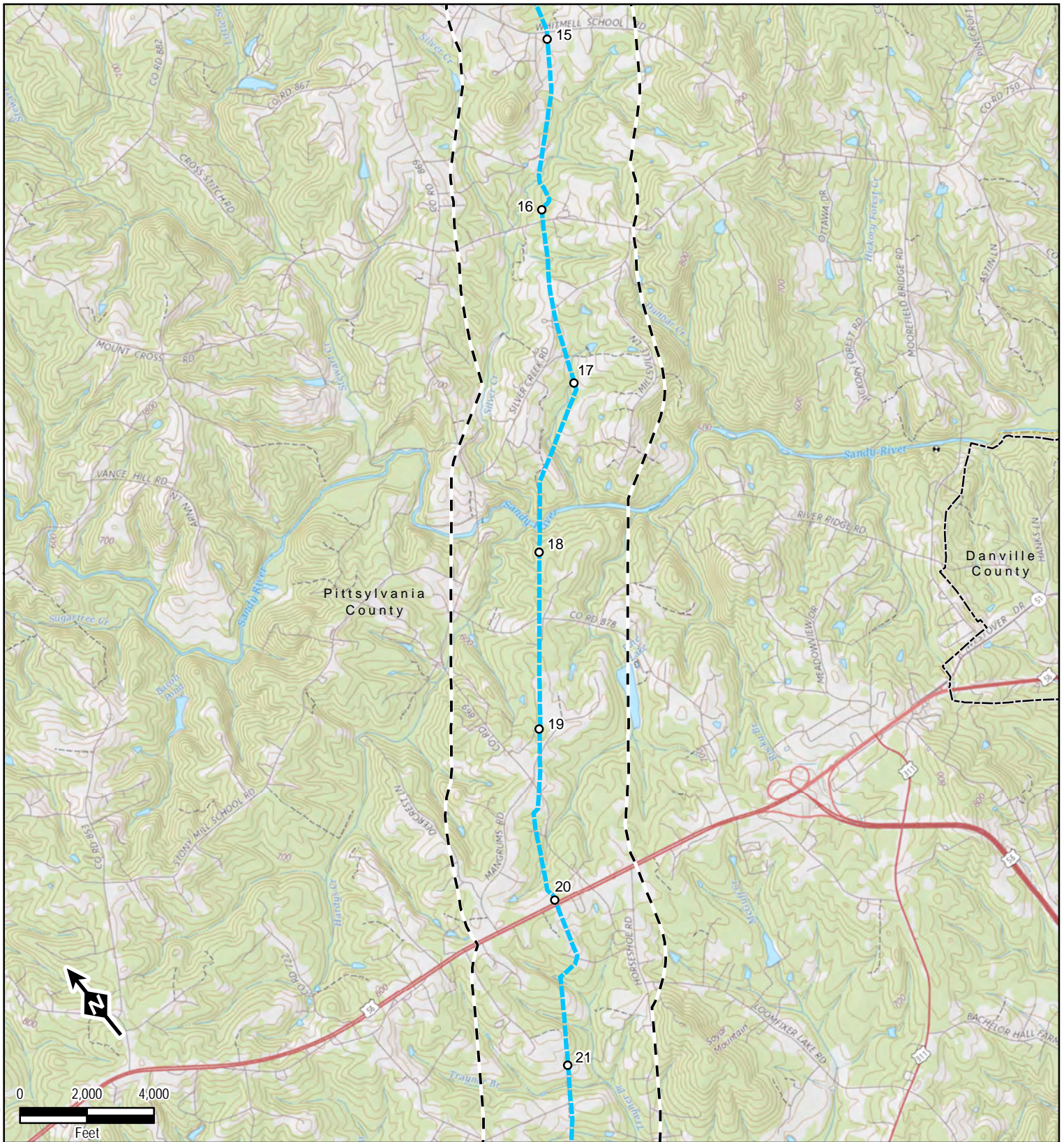


Virginia Facilities Map

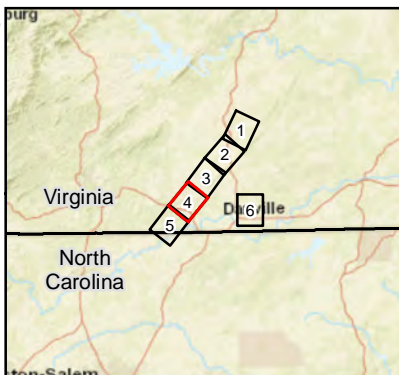
Sheet 3 of 6



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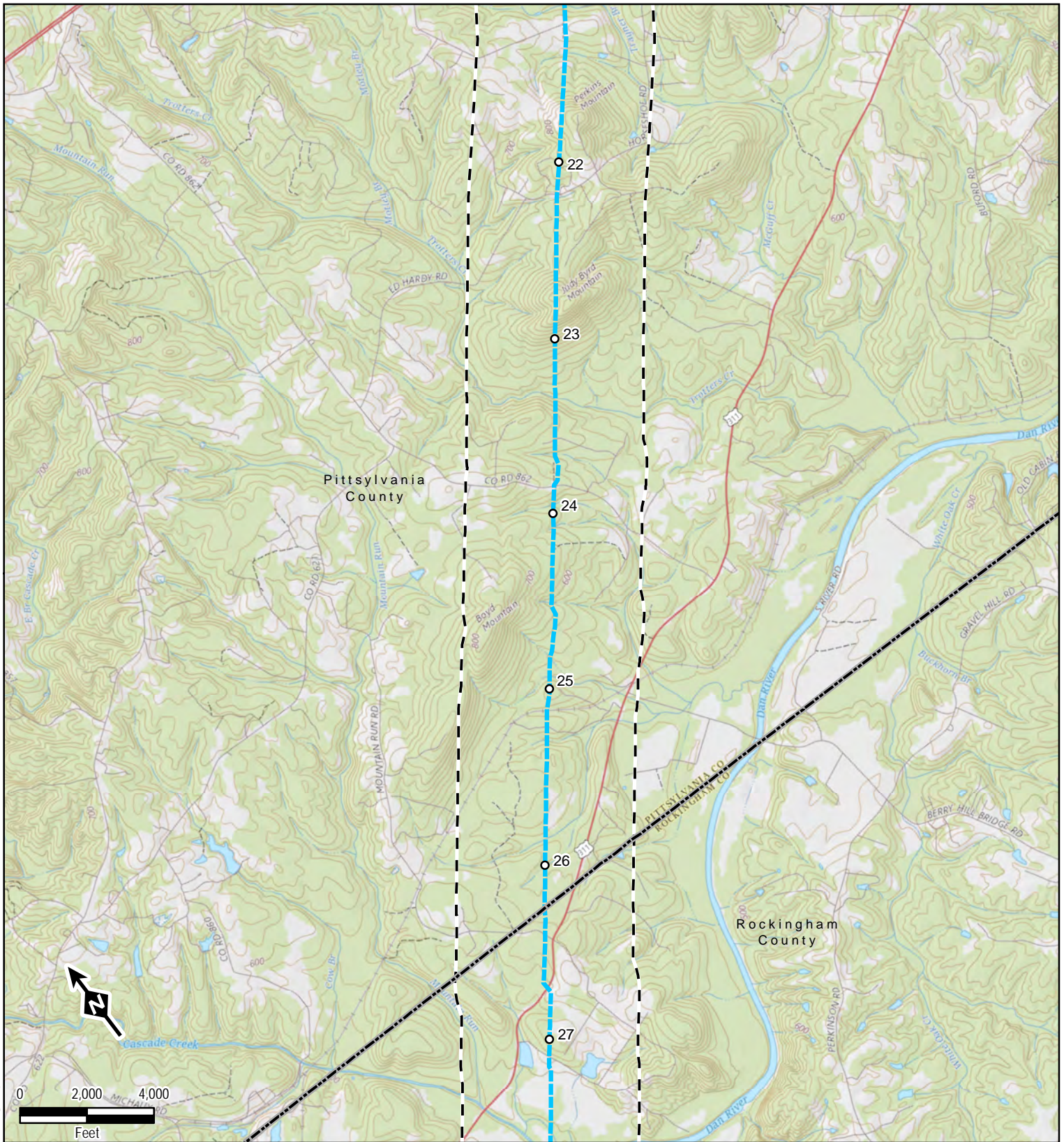


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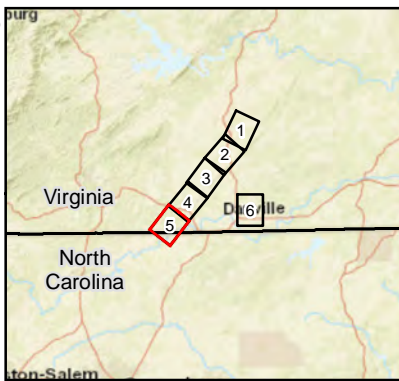
Sheet 4 of 6



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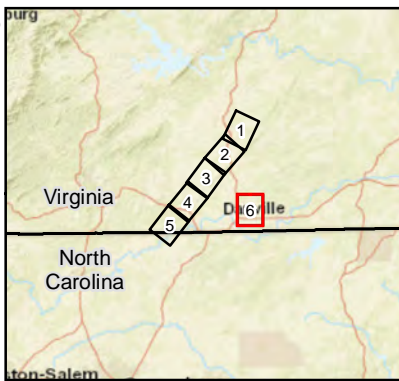
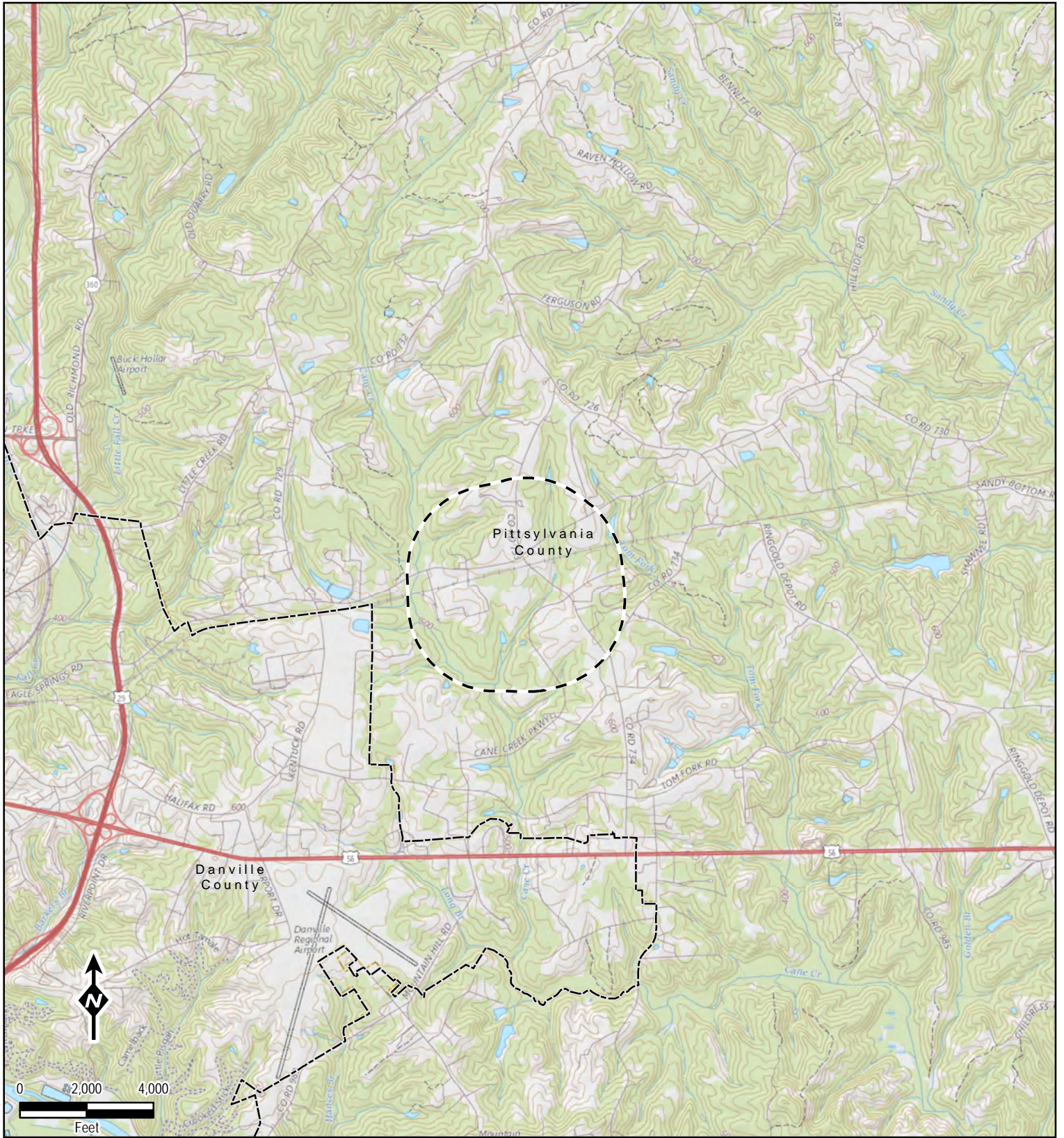


Virginia Facilities Map

Sheet 5 of 6



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Virginia Facilities Map

Sheet 6 of 6



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July 18, 2018

Mr. Tim Beard, State Conservationist
USDA NRCS
NRCS State Office - North Carolina
Natural Resources Conservation Service
4407 Bland Road Suite 190
Raleigh, NC 27609-6293

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- Soils with poor re-vegetation potential
- Soils classified as prime farmlands or farmlands of statewide importance
- Noxious weeds potentially present or having the potential to colonize the restored workspace
- Recommended seed mixes for restoration activities.

Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

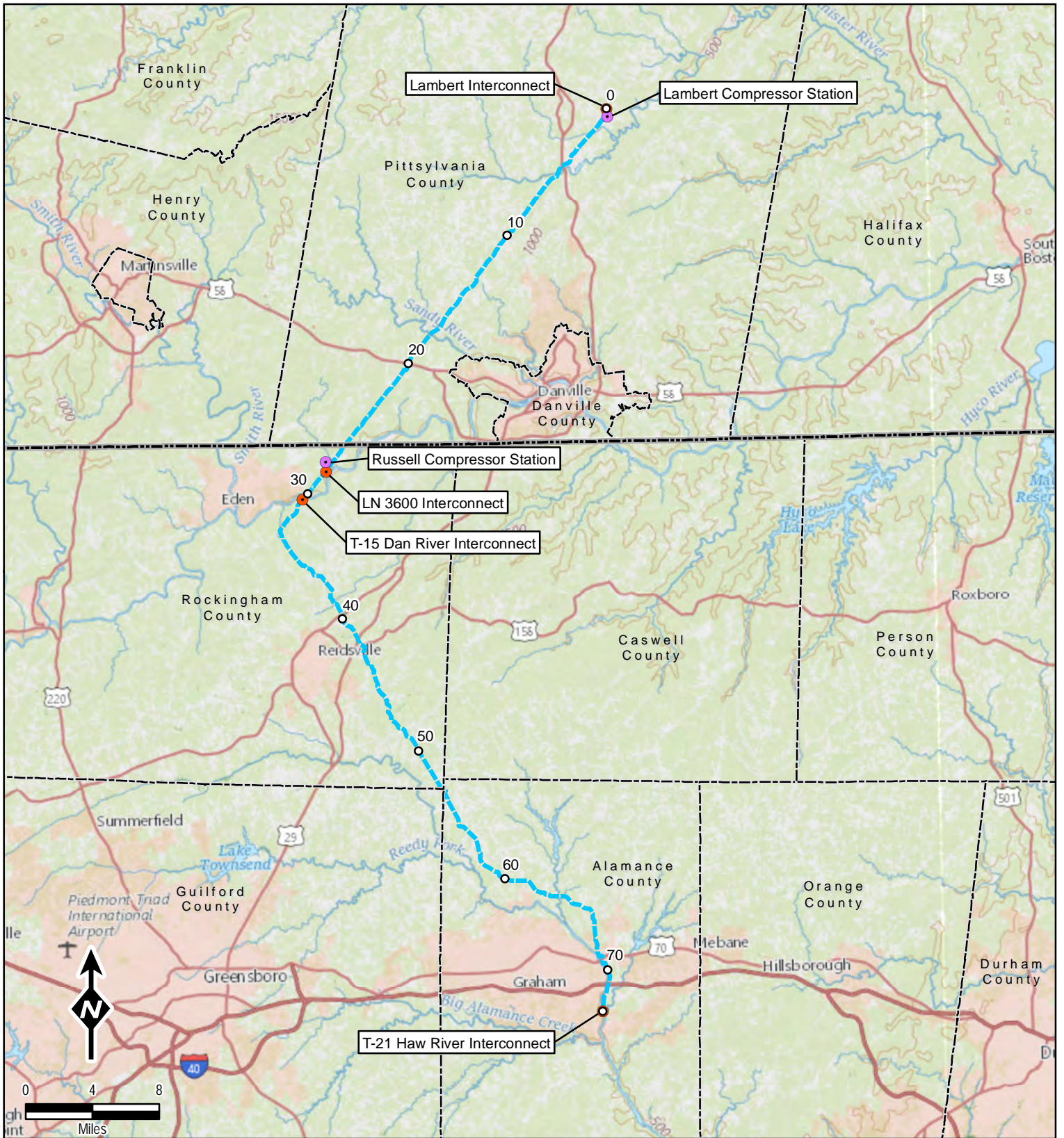
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



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Legend

- Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

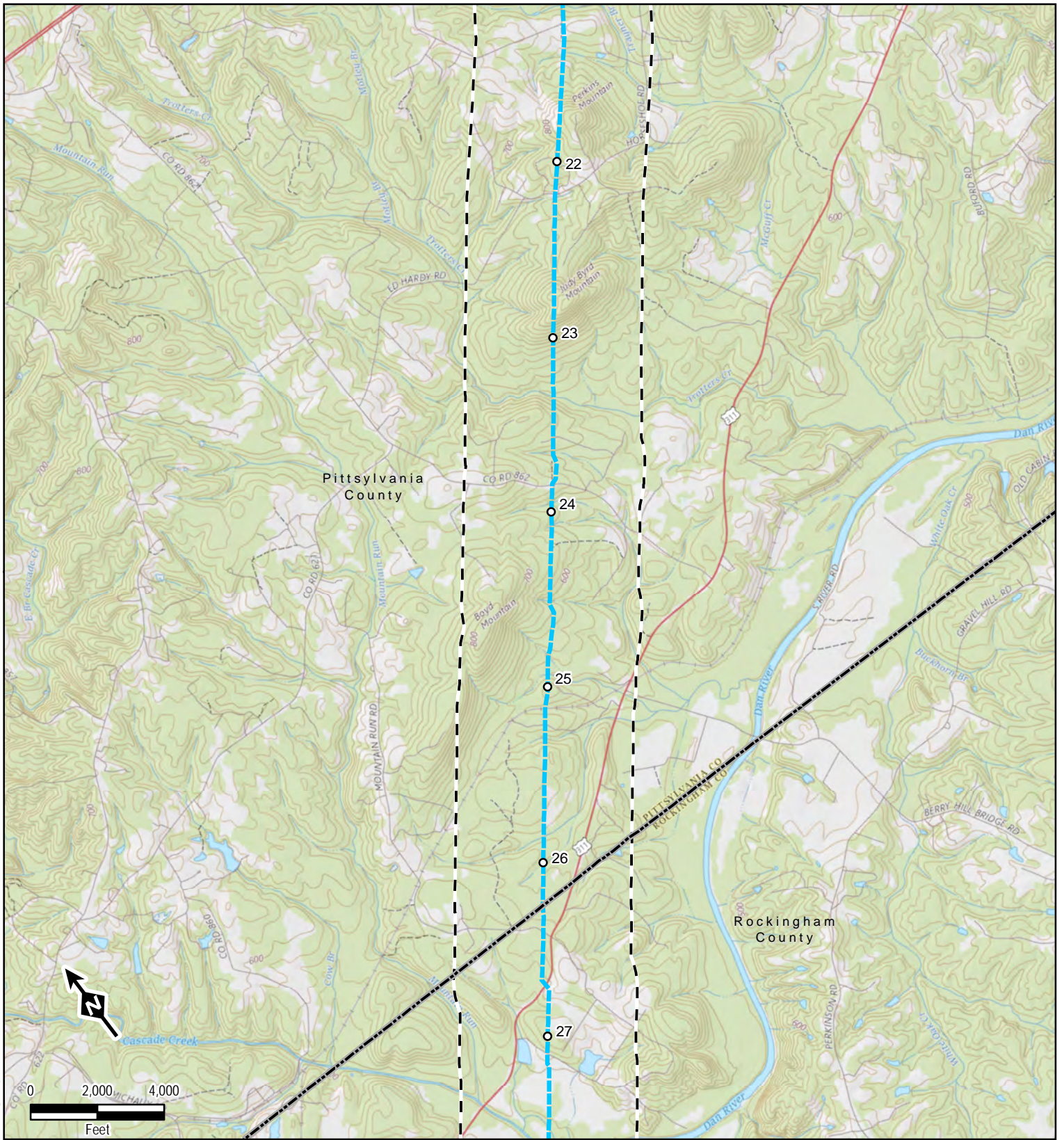
Mountain Valley
PIPELINE, LLC

Project Overview
Map

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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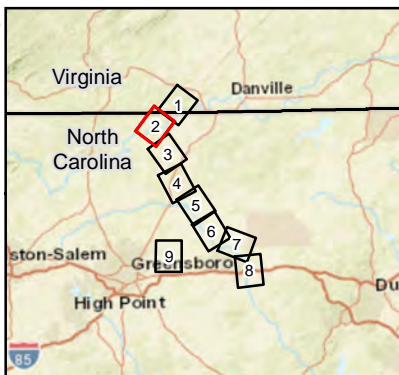
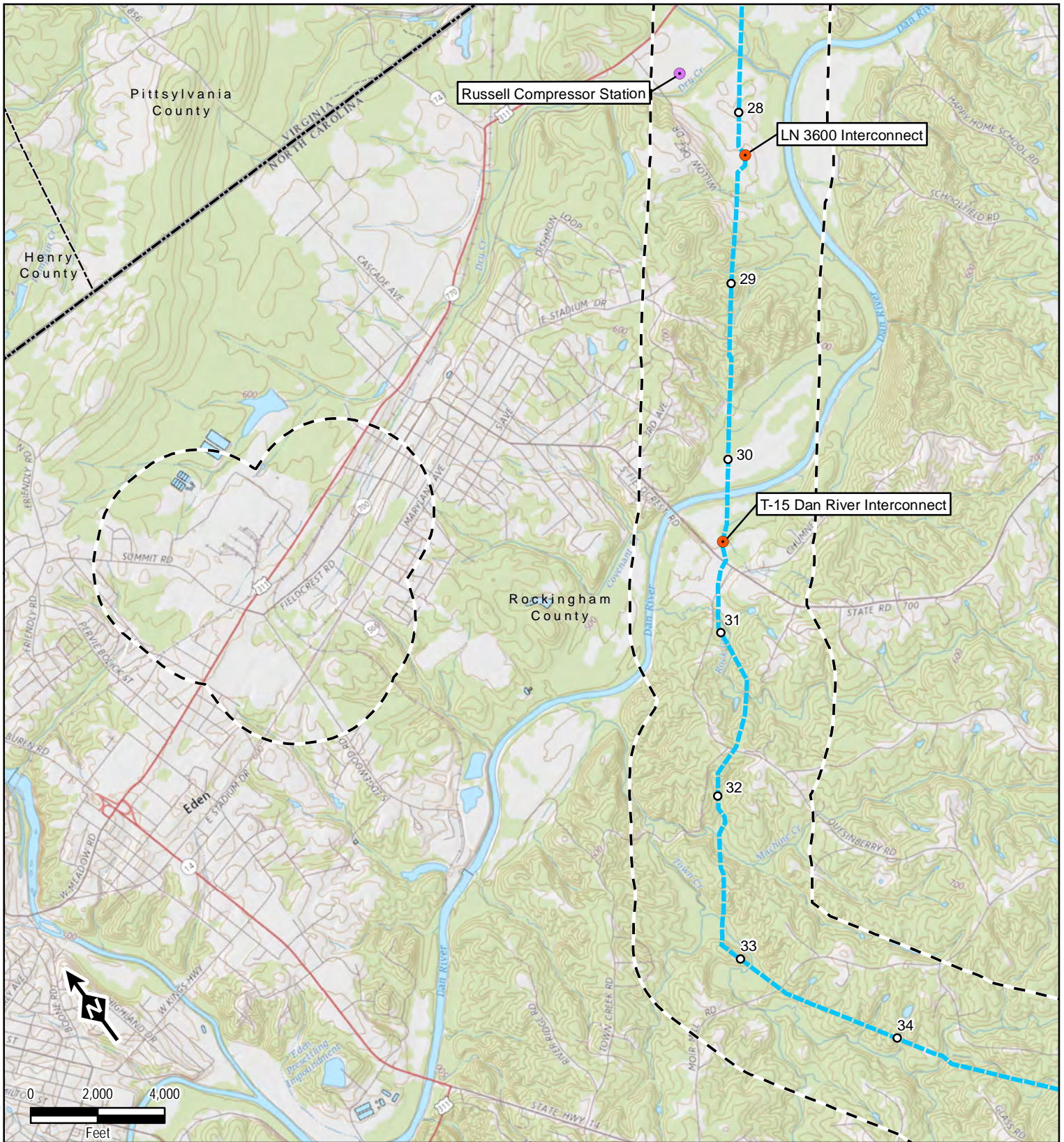
Mountain Valley
PIPELINE LLC

**North Carolina
Facilities Map**

Sheet 1 of 9

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West Chester, PA 19382



Legend

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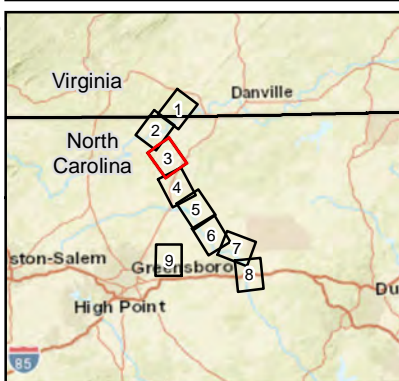
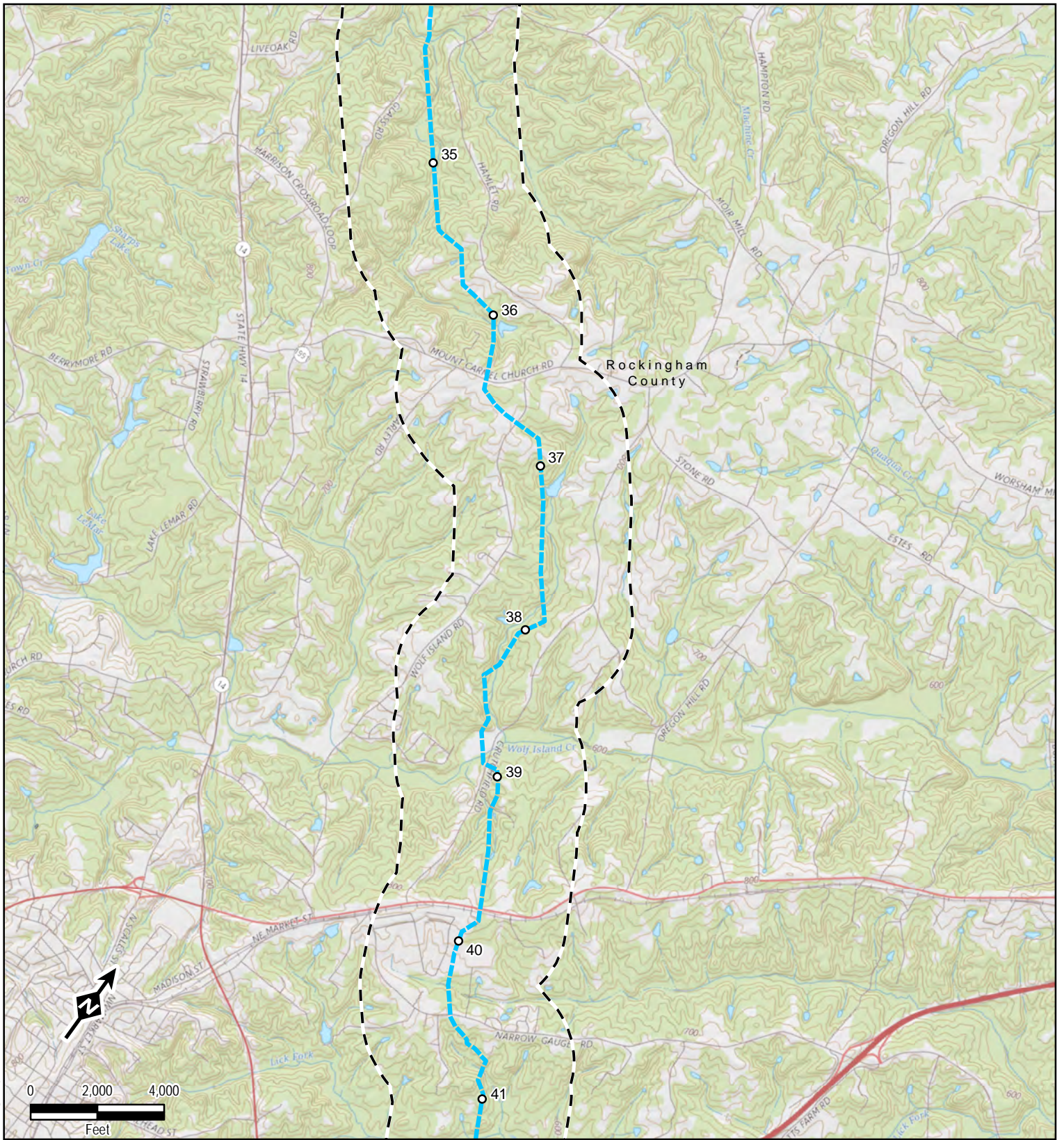
North Carolina Facilities Map

Sheet 2 of 9

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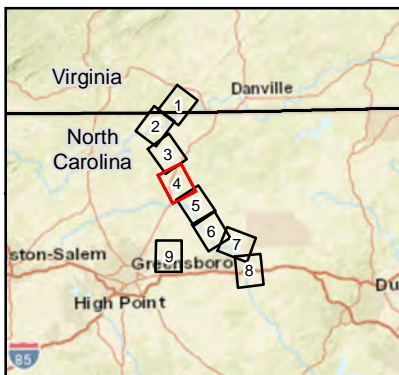
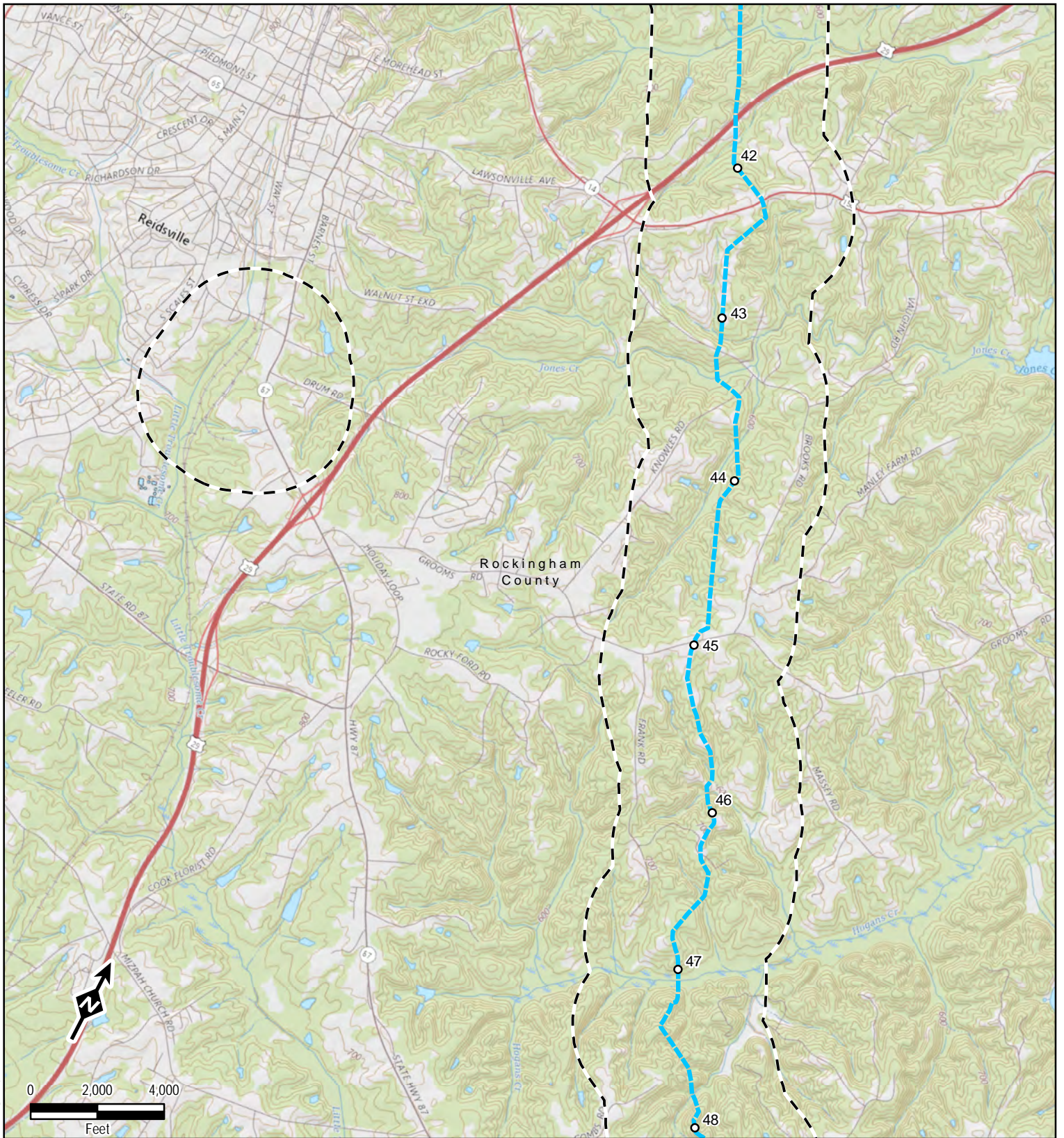
North Carolina Facilities Map

Sheet 3 of 9

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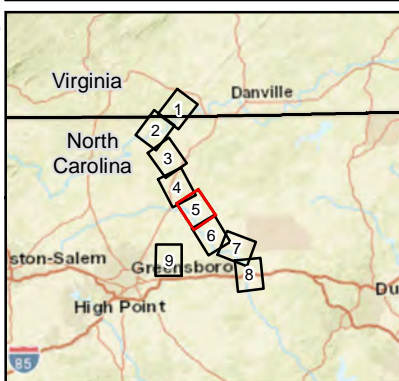
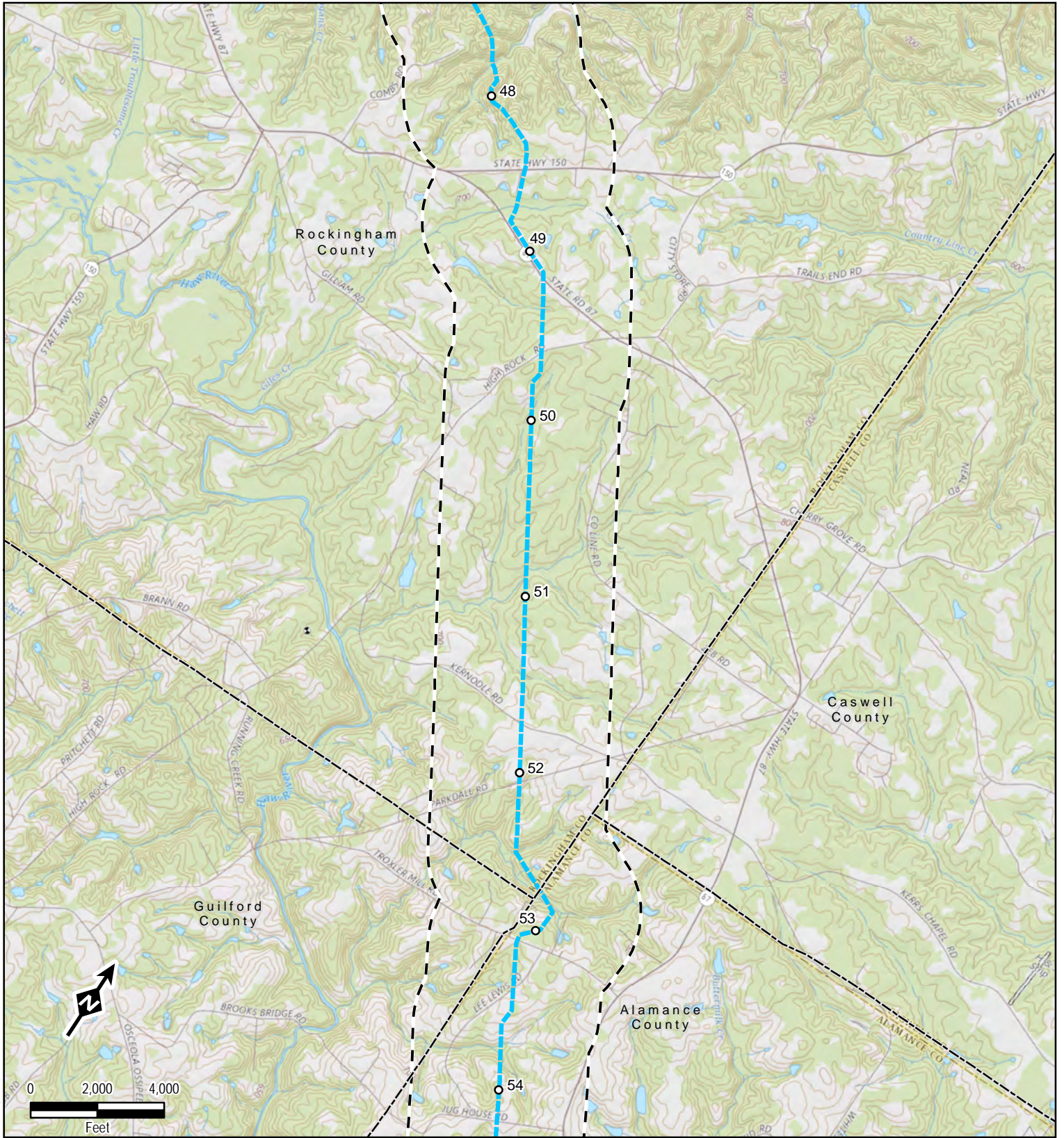
North Carolina Facilities Map

Sheet 4 of 9

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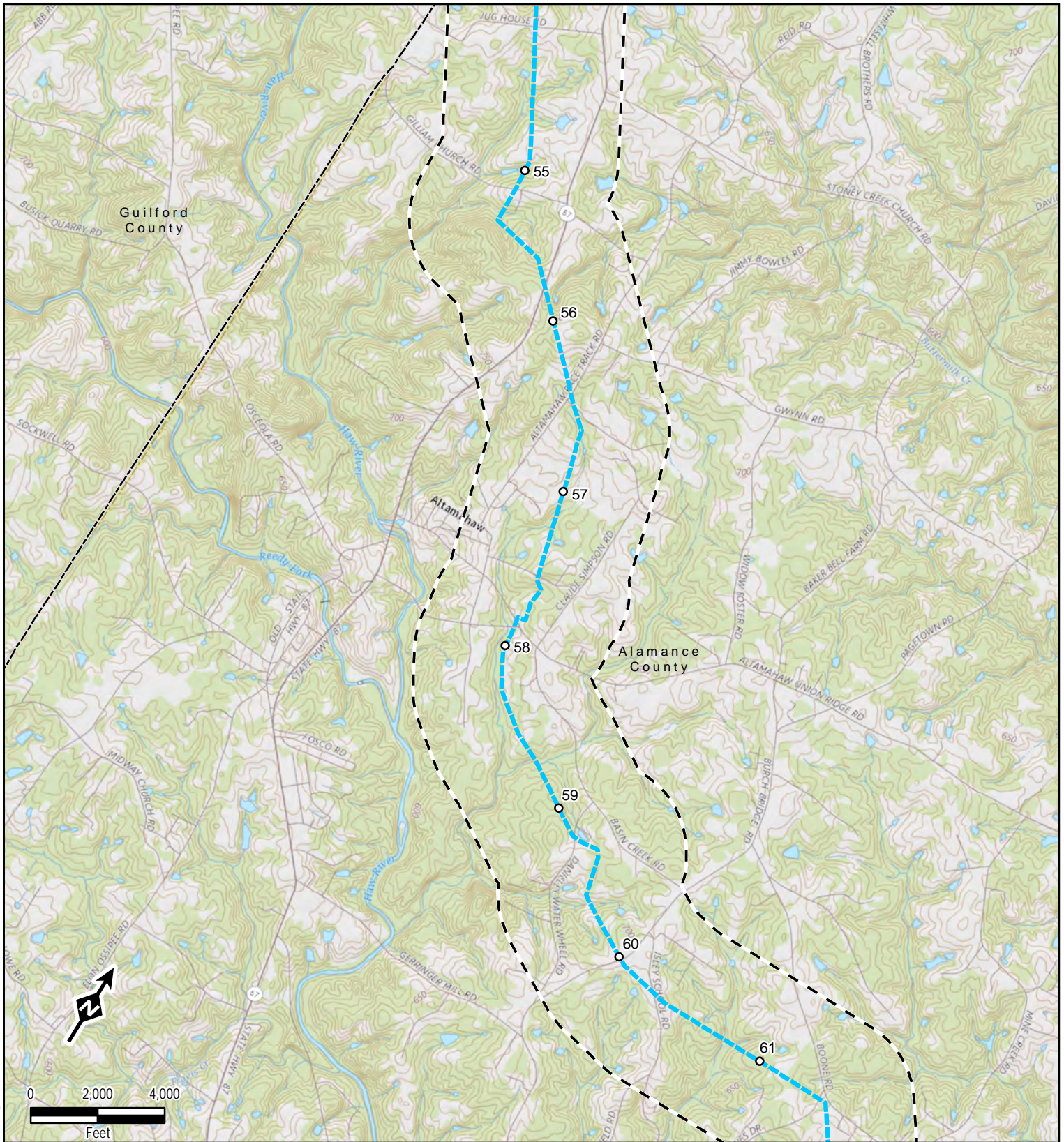
North Carolina Facilities Map

Sheet 5 of 9

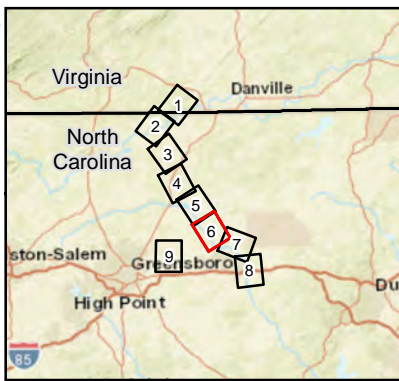
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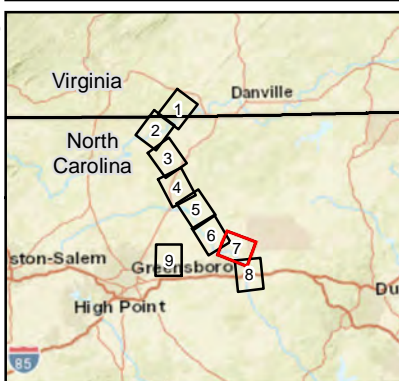
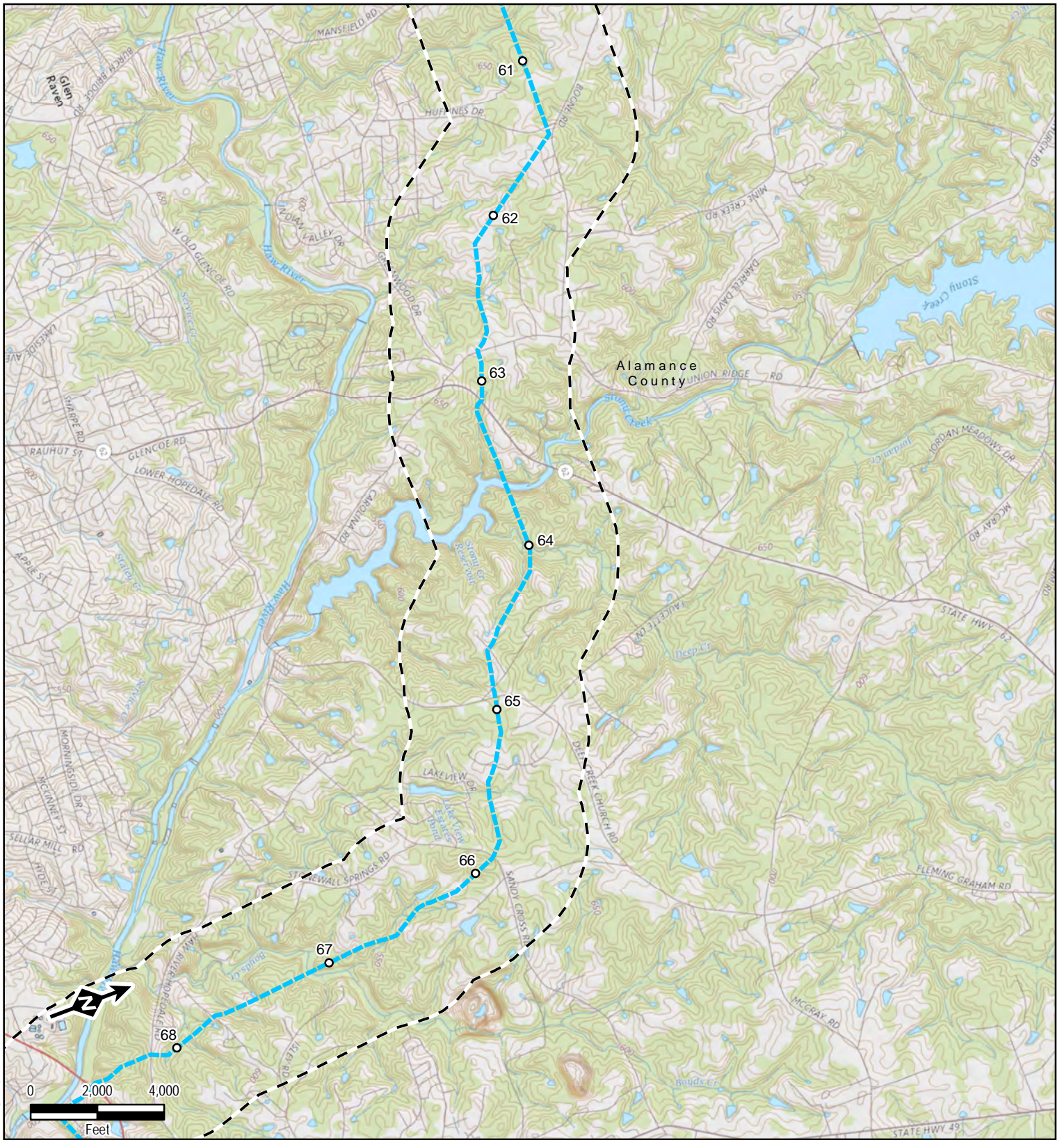


**North Carolina
Facilities Map**

Sheet 6 of 9



600 Willowbrook Ln
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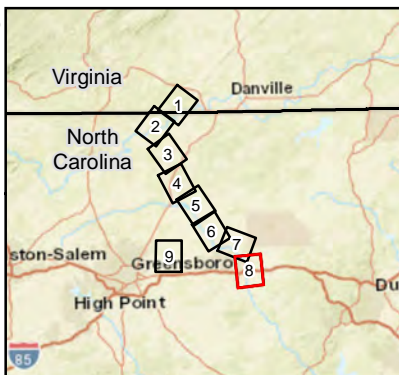
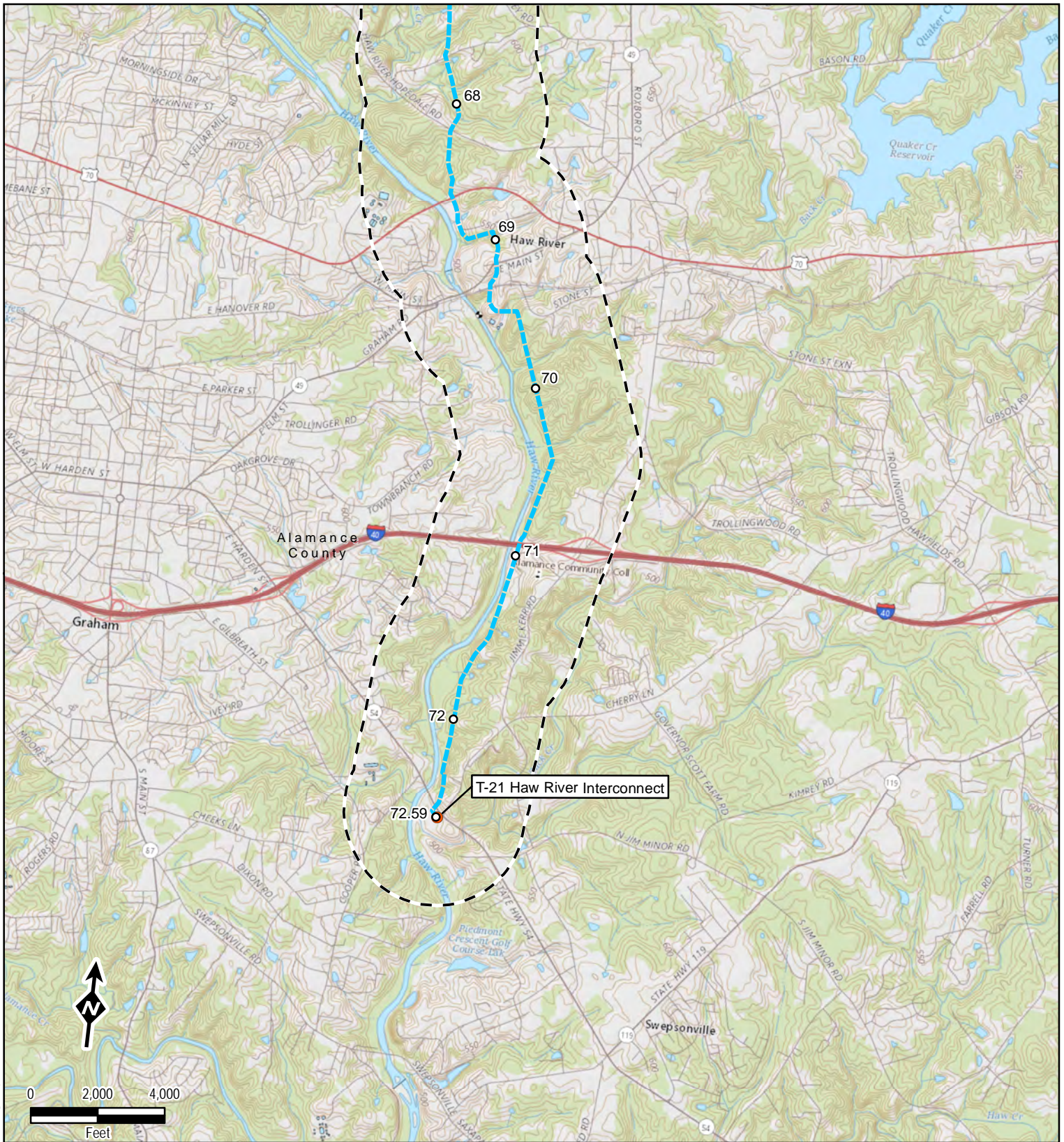
North Carolina Facilities Map

Sheet 7 of 9

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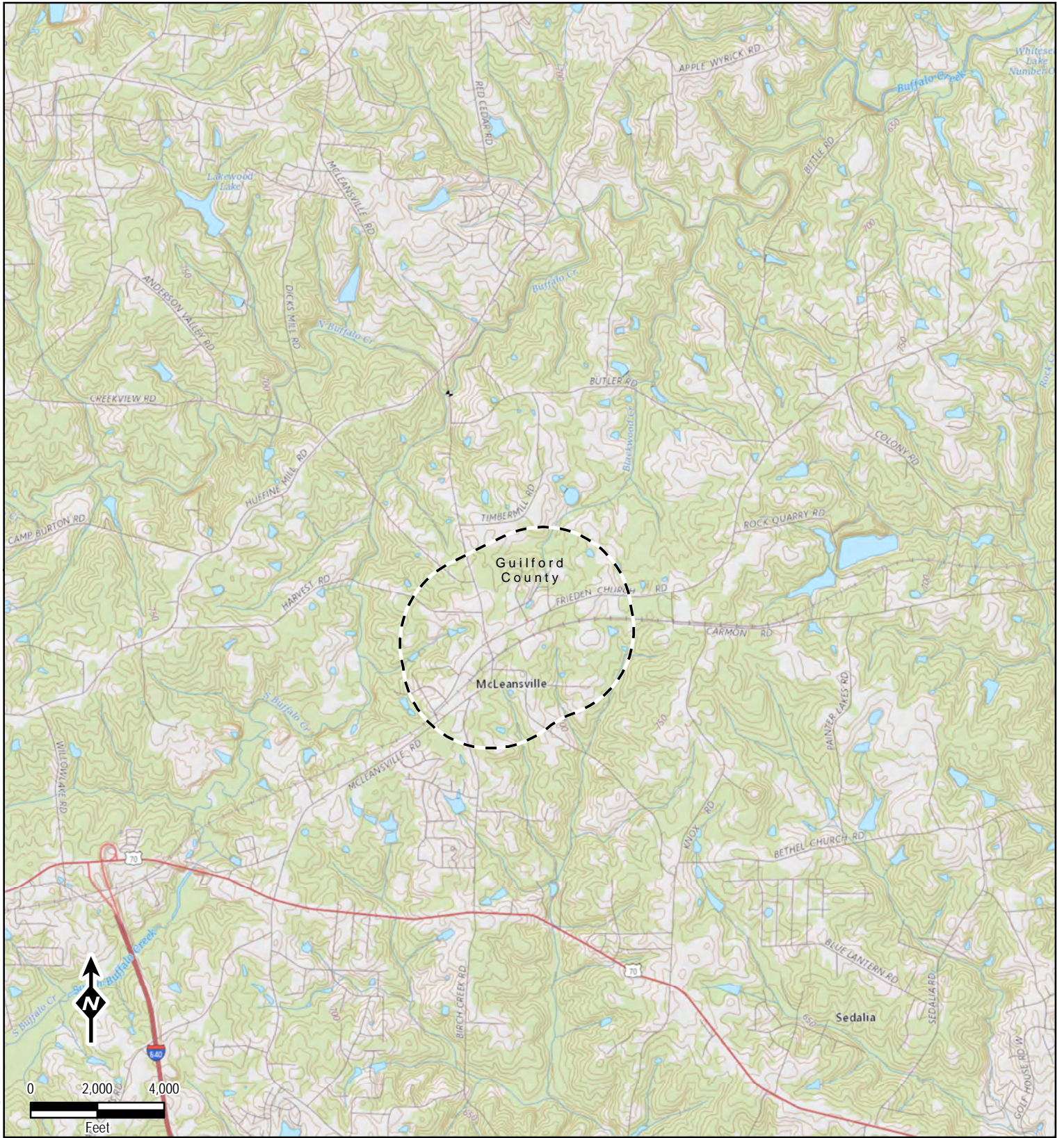
North Carolina Facilities Map

Sheet 8 of 9

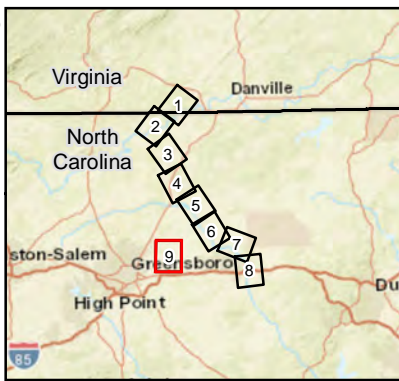
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Mountain Valley PIPELINE LLC

North Carolina Facilities Map

Sheet 9 of 9

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833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Brian Loadholt, Supervisory Soil Conservationist
USDA NRCS
Reidsville Service Center
525 NC-65, Suite 100
Reidsville, NC 27320

Burlington Service Center
209 N Graham Hopedale Road
Burlington, NC 27217-2971

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

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MVP Southgate Permitting Lead

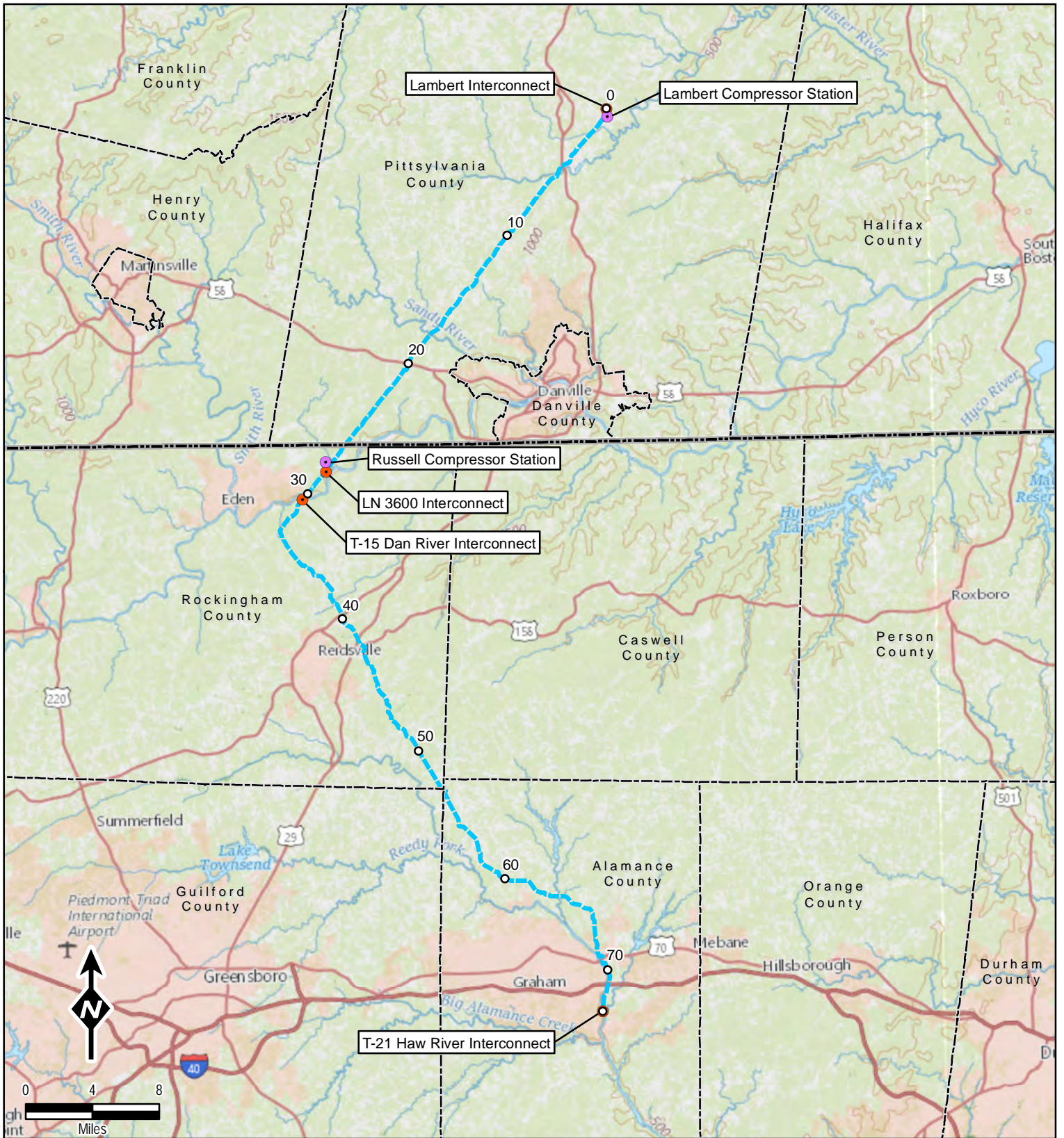
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



Legend

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- Mileposts
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Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

Mountain Valley PIPELINE LLC

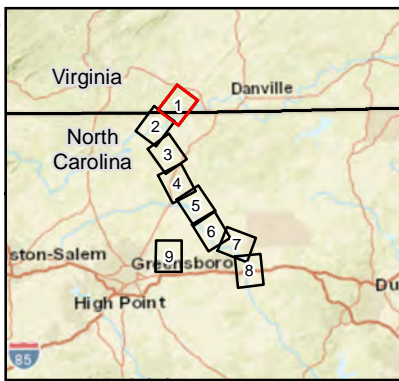
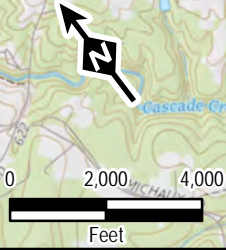
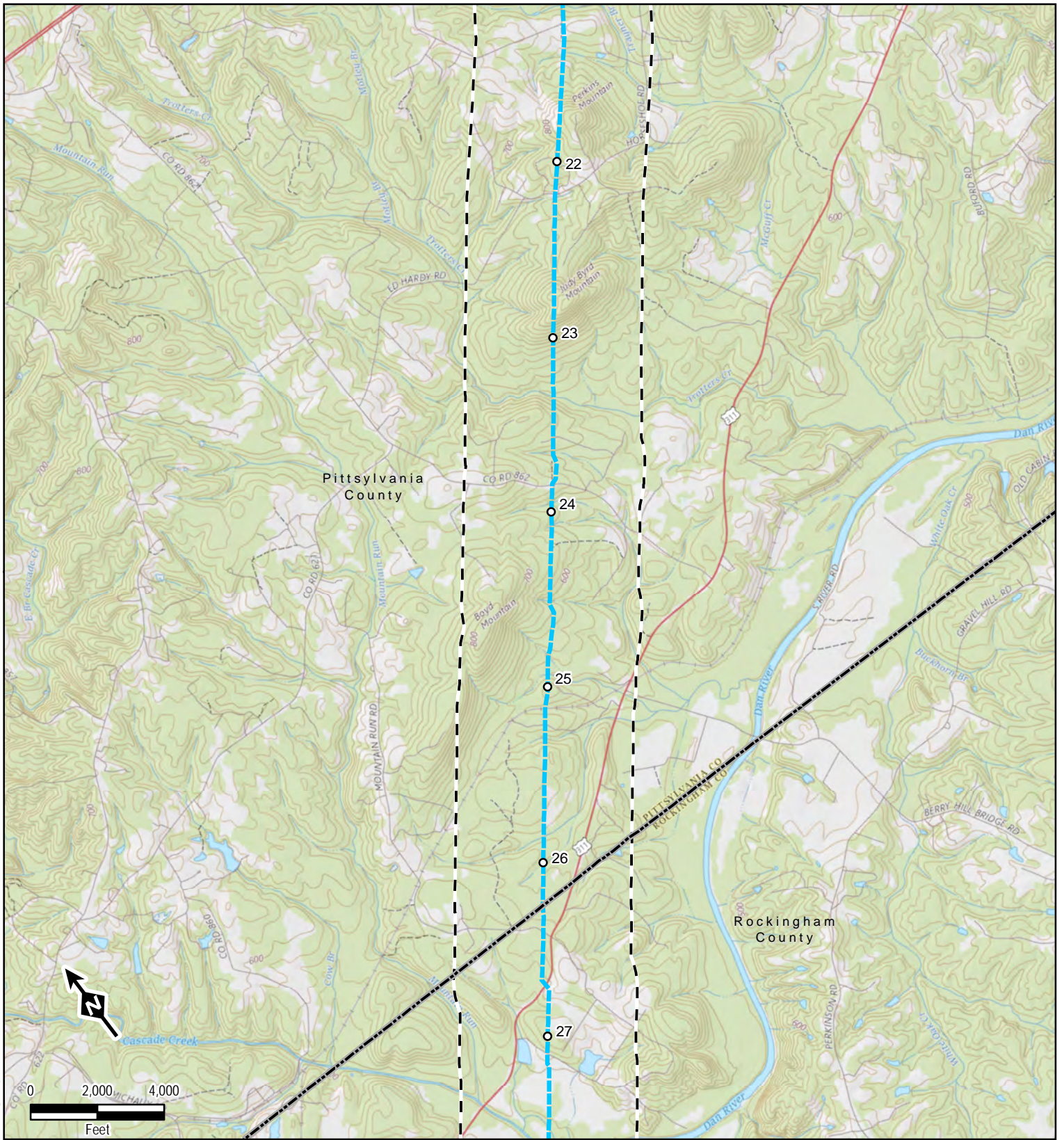
Project Overview Map

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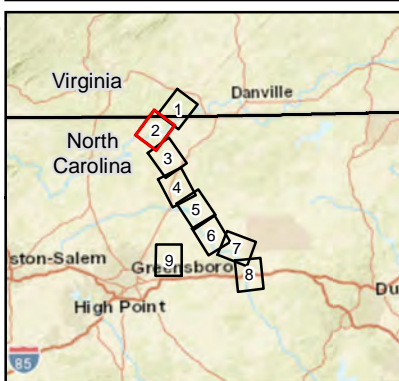
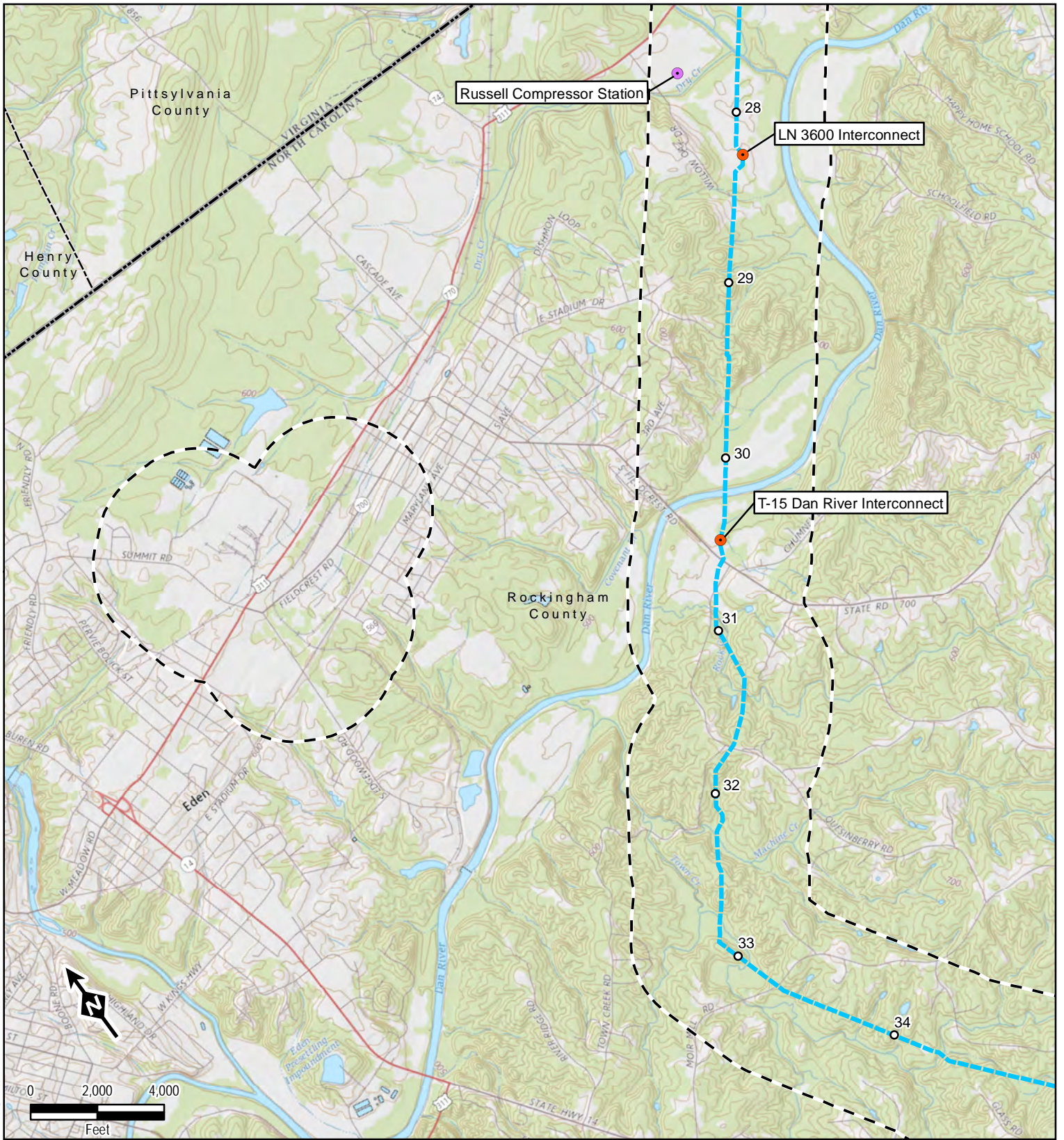
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PIPELINE LLC

**North Carolina
Facilities Map**

Sheet 1 of 9

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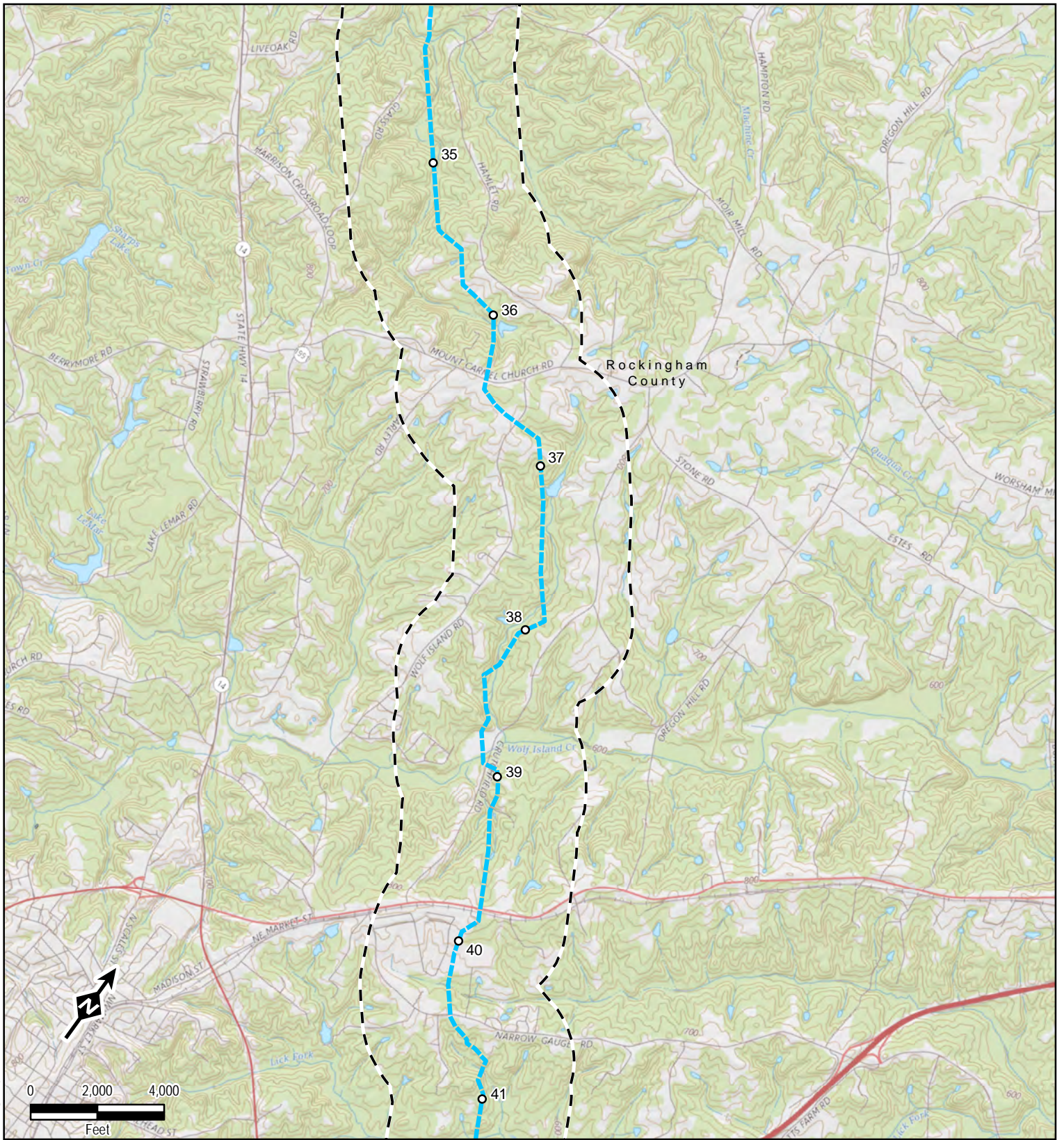
North Carolina Facilities Map

Sheet 2 of 9

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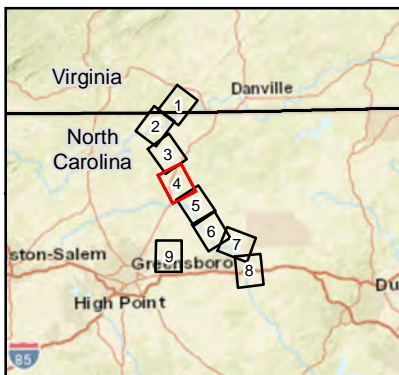
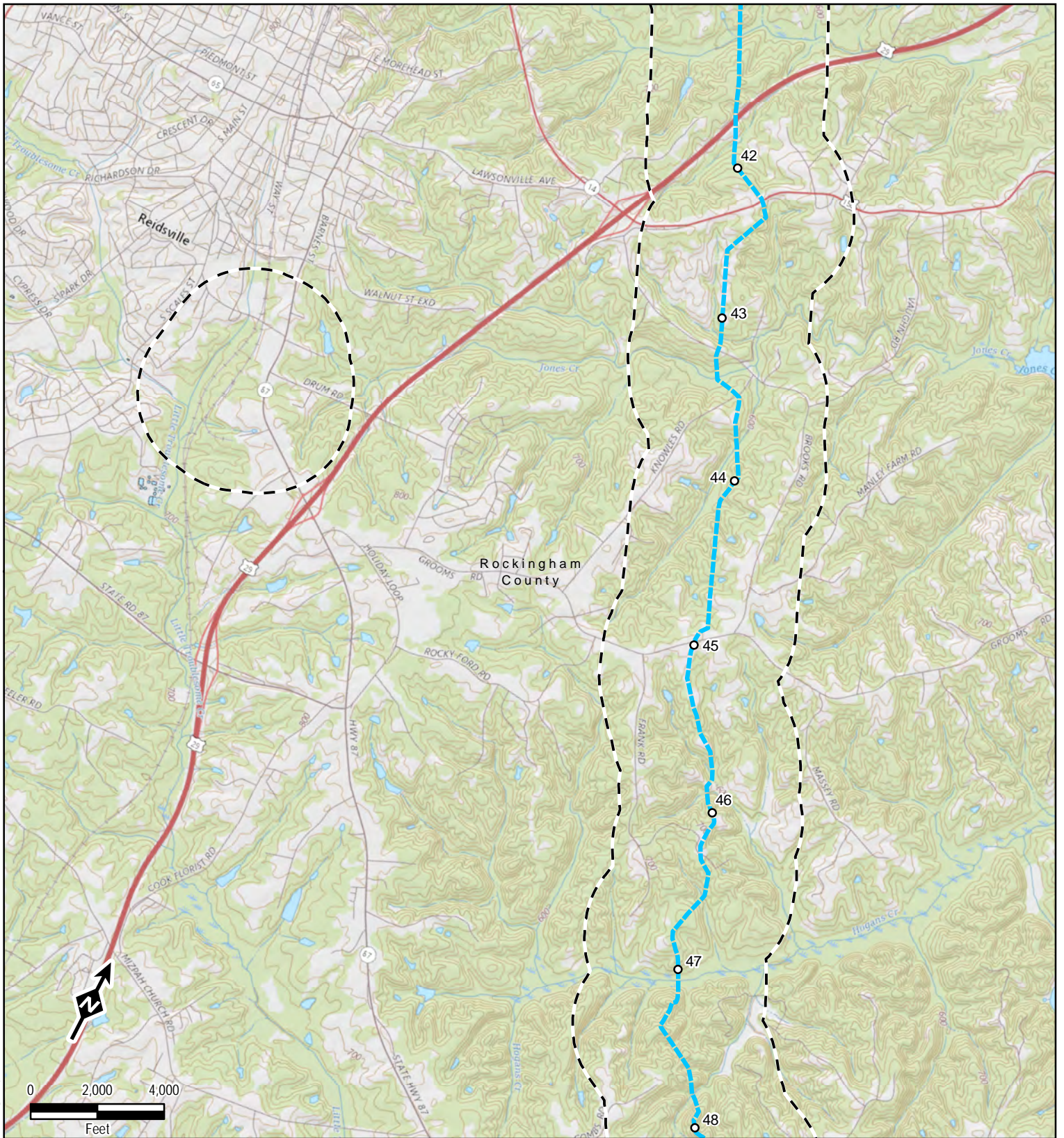
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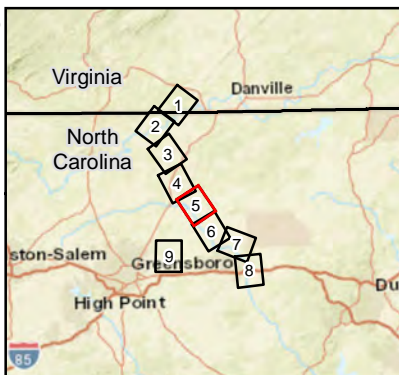
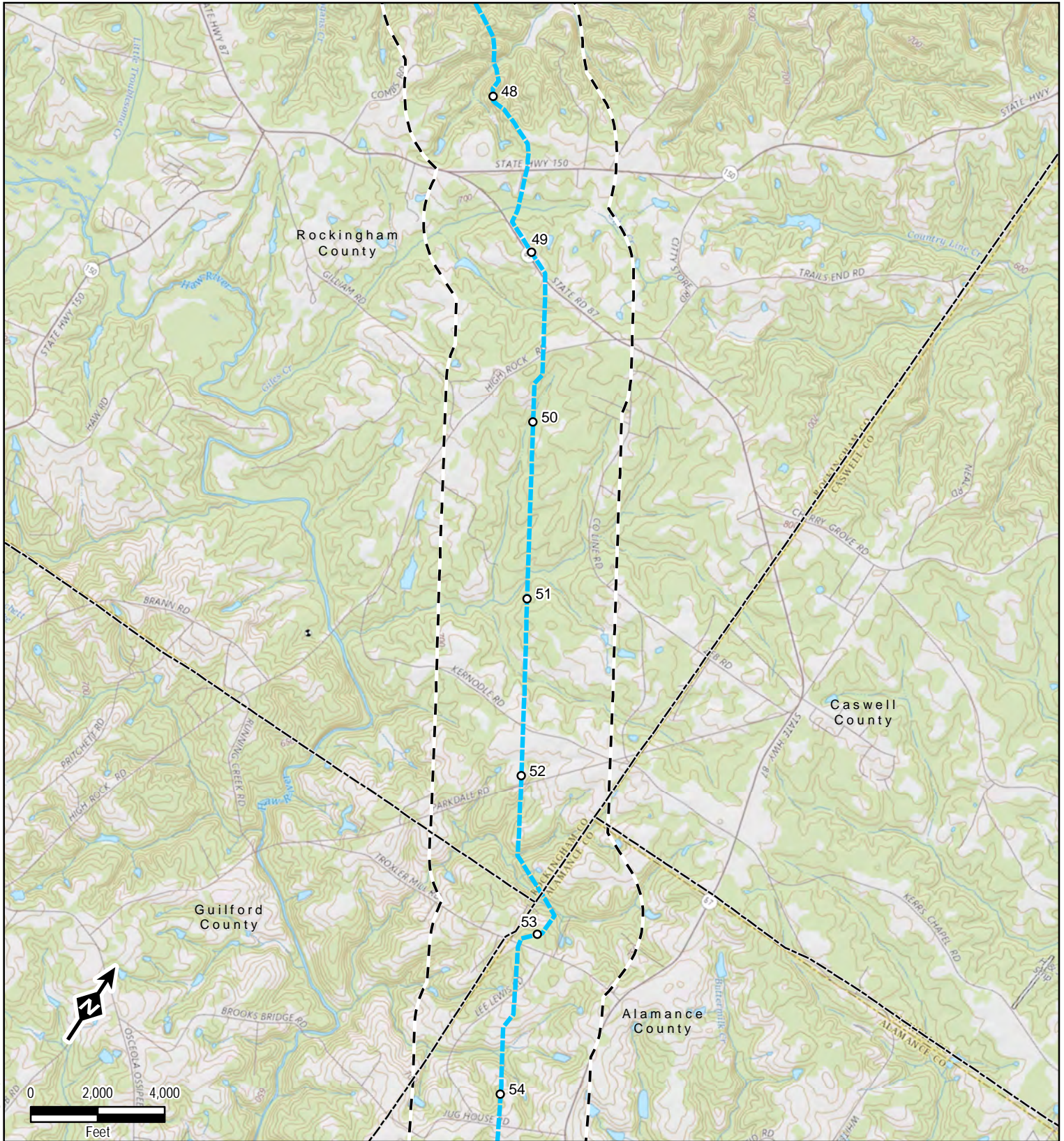
North Carolina Facilities Map

Sheet 4 of 9



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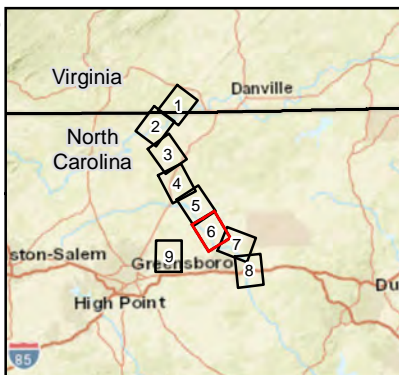
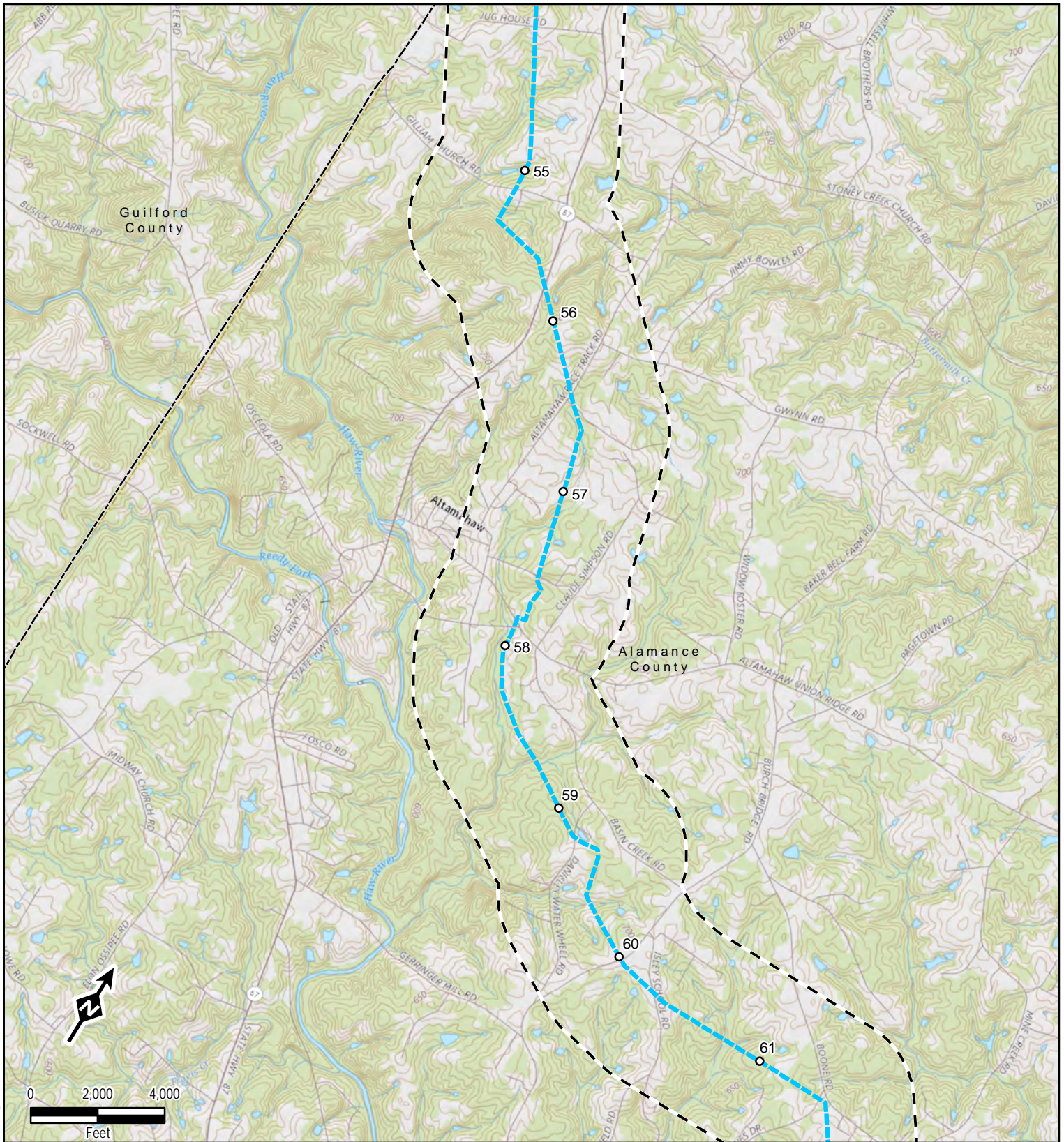
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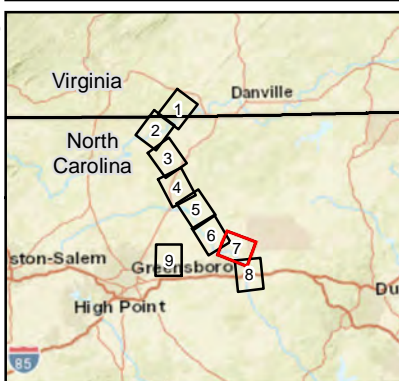
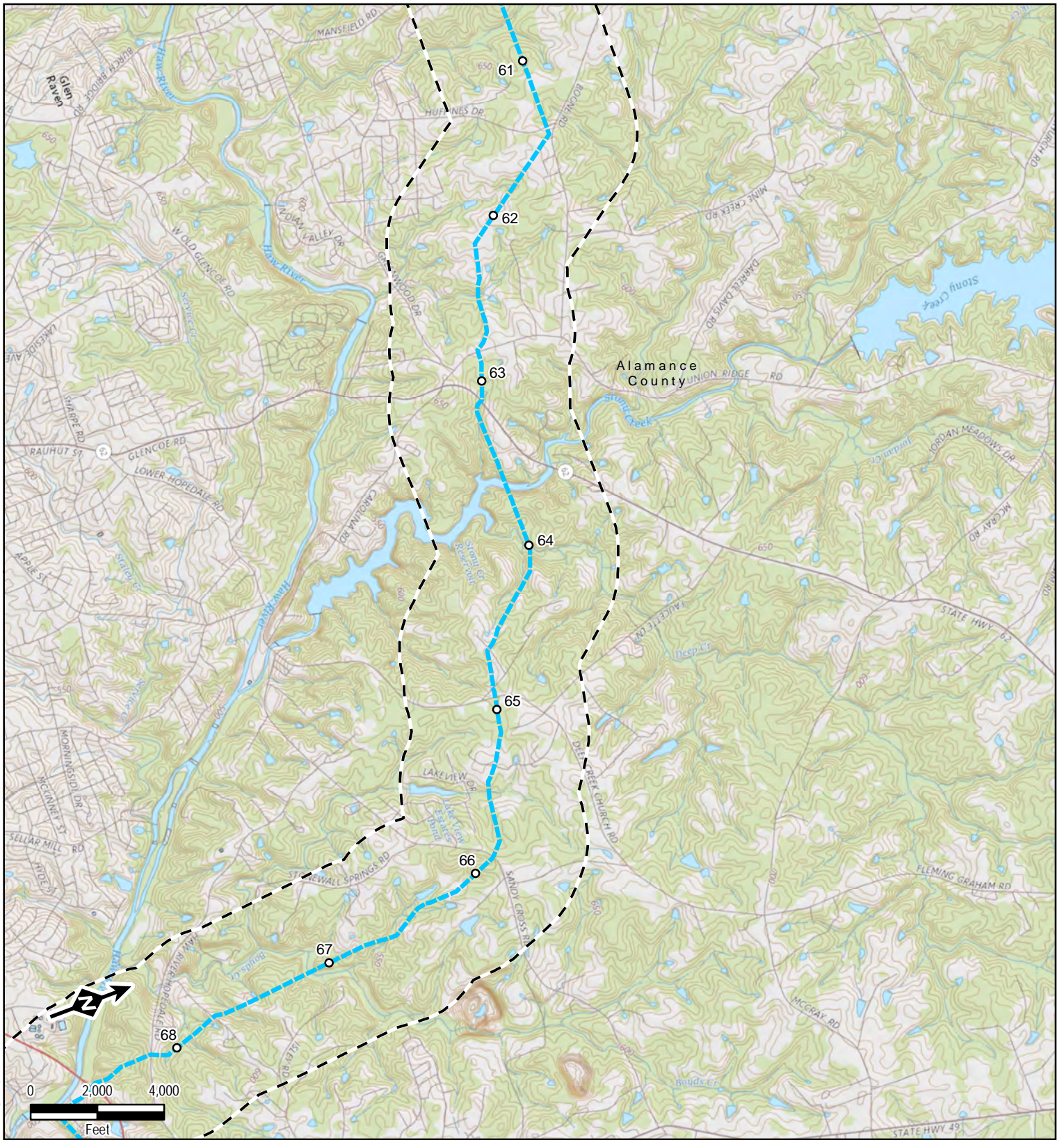
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North Carolina Facilities Map

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Mountain Valley PIPELINE LLC

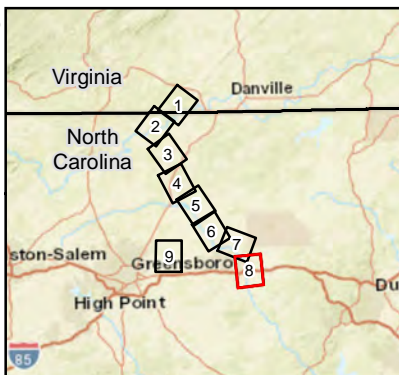
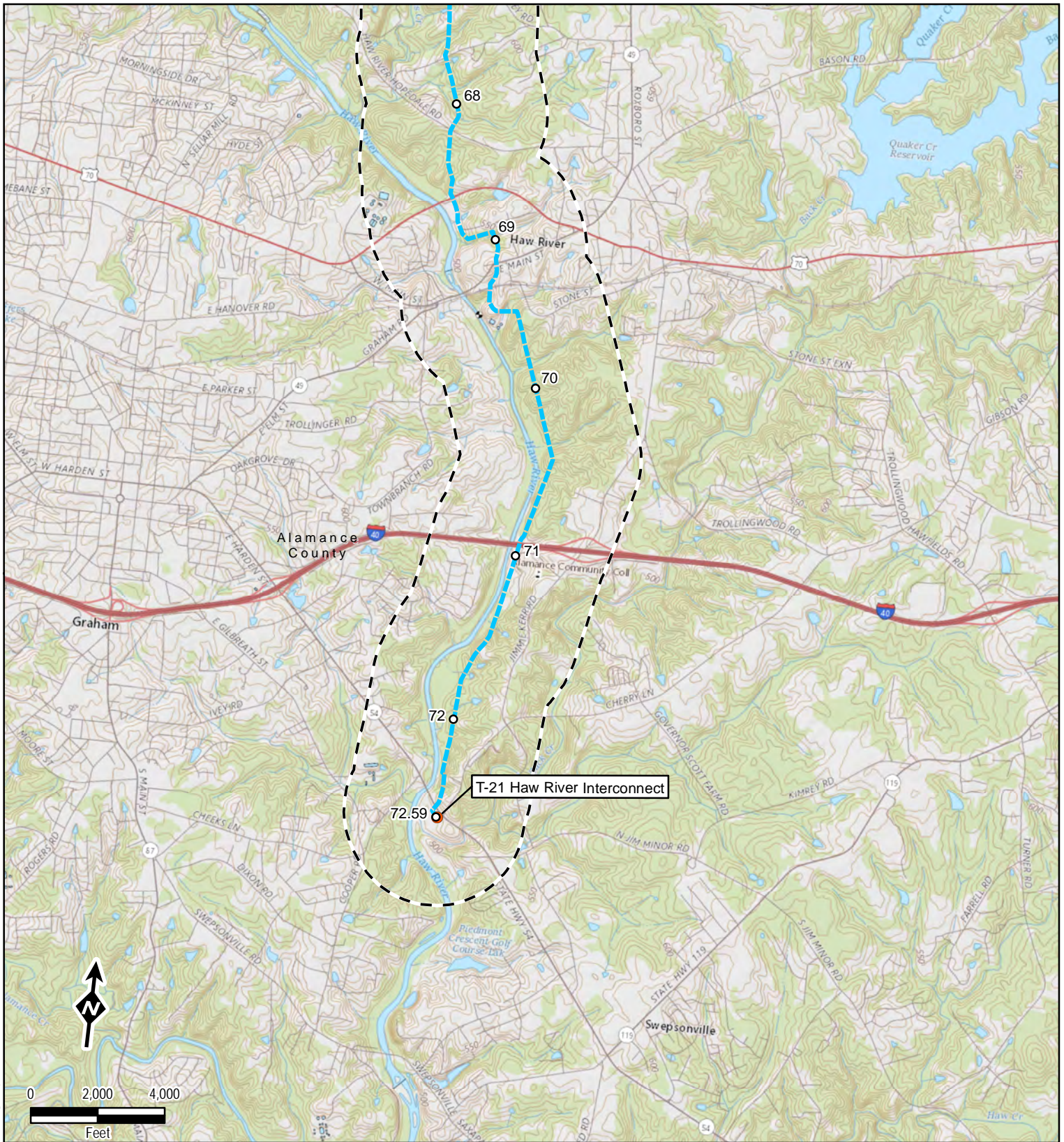
North Carolina Facilities Map

Sheet 7 of 9

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

- Mileposts
- Compressor Station
- Meter Station
- Proposed Pipeline Route
- - - Agency Review Corridor
- ▭ County Boundary
- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11

Mountain Valley PIPELINE LLC

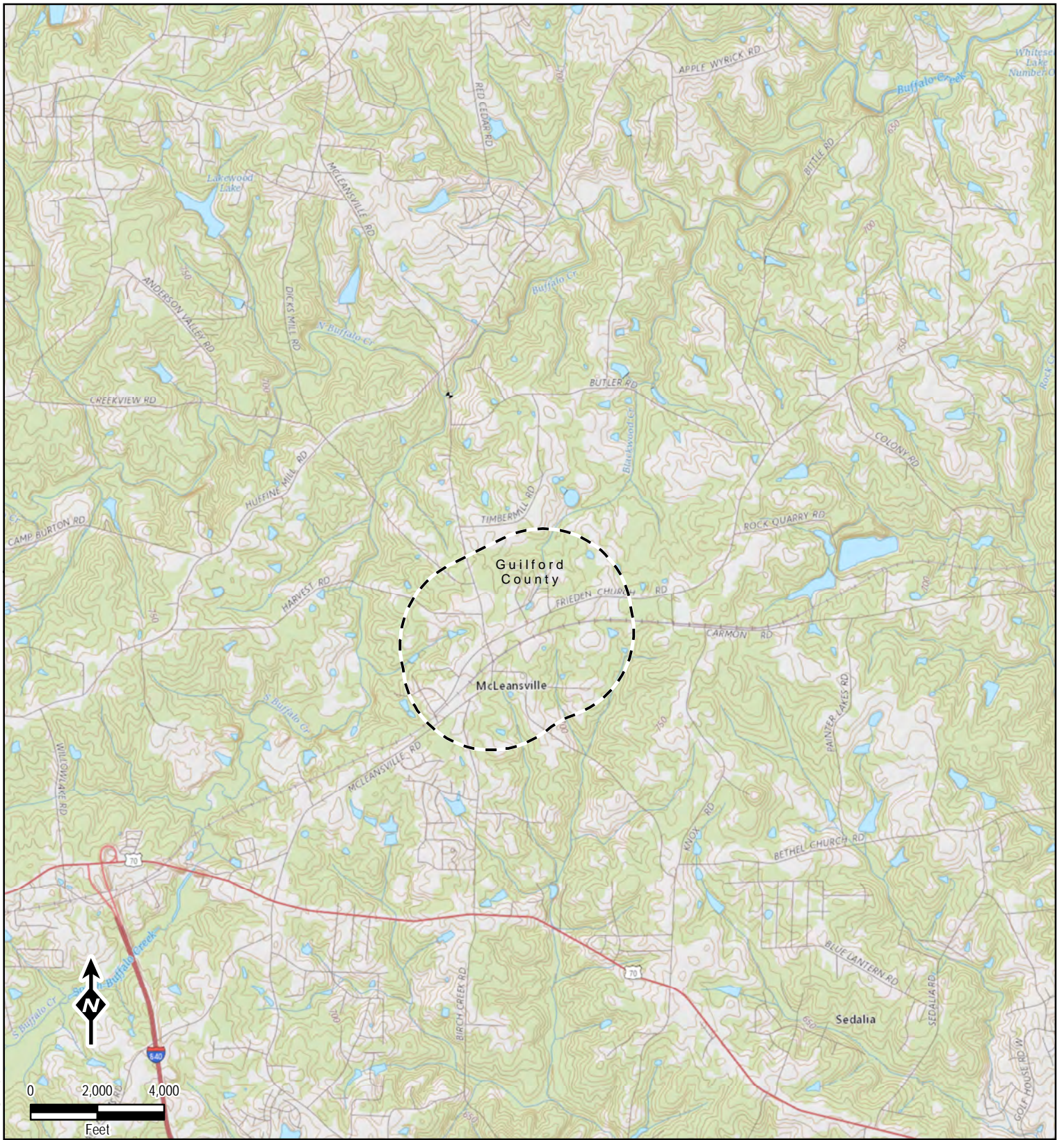
North Carolina Facilities Map

Sheet 8 of 9

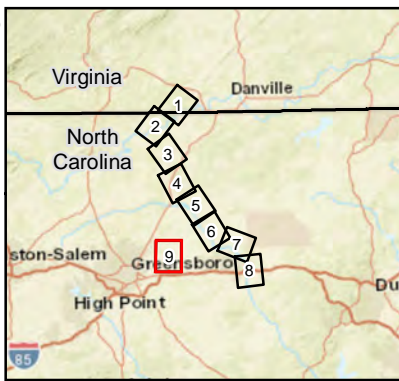
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Legend

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Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
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Mountain Valley PIPELINE LLC

North Carolina Facilities Map

Sheet 9 of 9

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600 Willowbrook Ln
West Chester, PA 19382

facilities include a pig receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this attachment also contains USGS quadrangle excerpts of the facilities in North Carolina and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

Mountain Valley is in the process of collecting environmental resource data to evaluate and design the MVP Southgate Project facilities. With this information, TRC respectfully requests your review of the enclosed information to determine if the Project areas will cross or be within 0.50 mile of the following sensitive environmental areas:

- Land currently in agricultural use
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- Land with Specialty crops
- Land with Grazing allotments
- Conservation Resource Protection lands
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- Soils with severe erosion potential
- Soils with poor re-vegetation potential
- Soils classified as prime farmlands or farmlands of statewide importance
- Noxious weeds potentially present or having the potential to colonize the restored workspace
- Recommended seed mixes for restoration activities.

Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

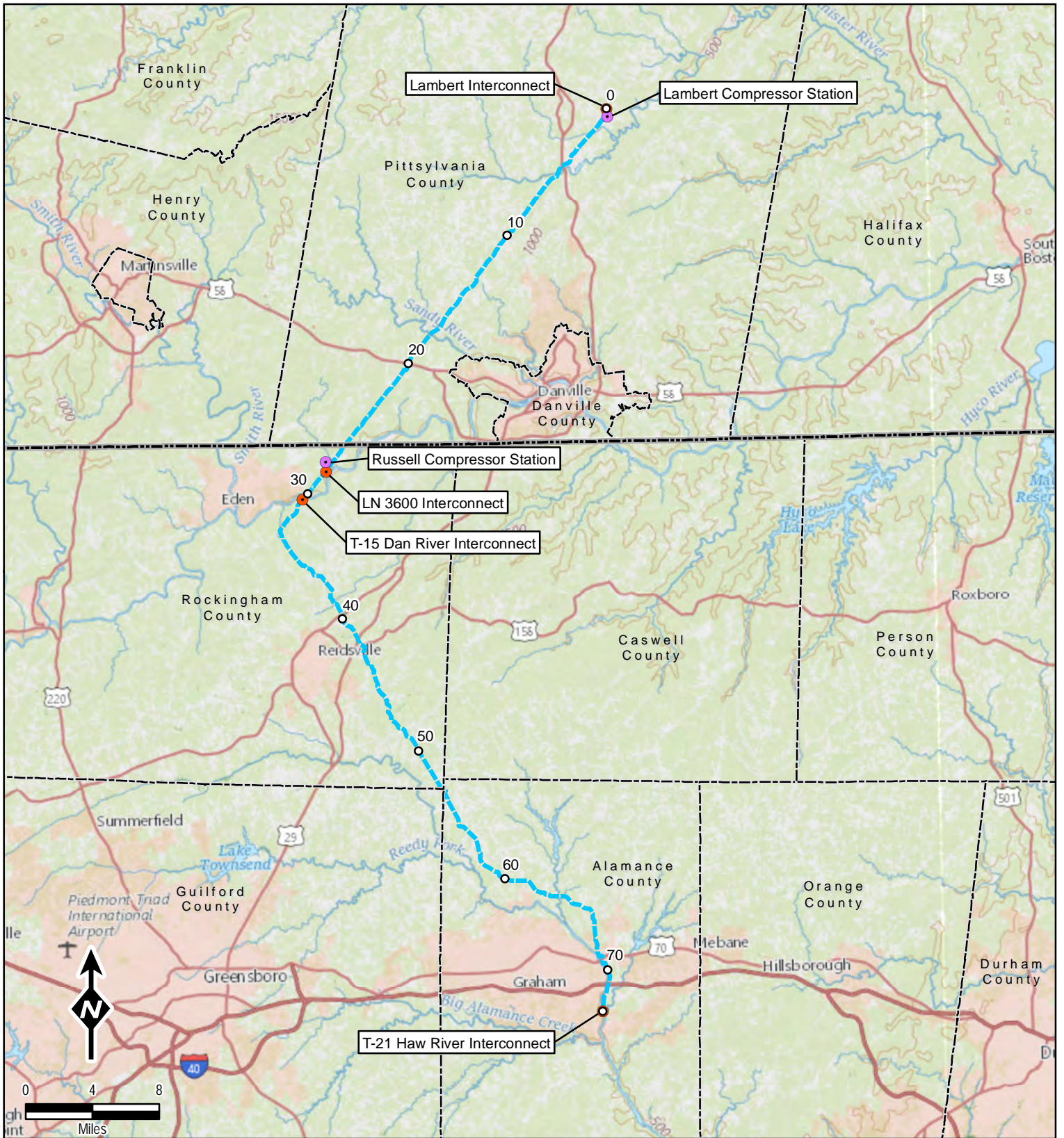
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



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Legend

- Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

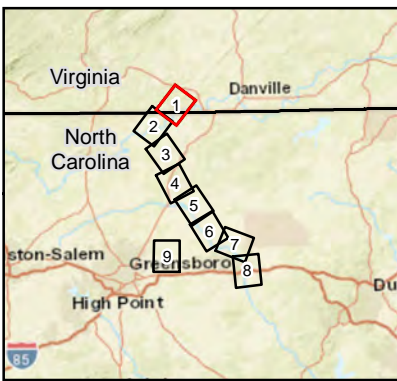
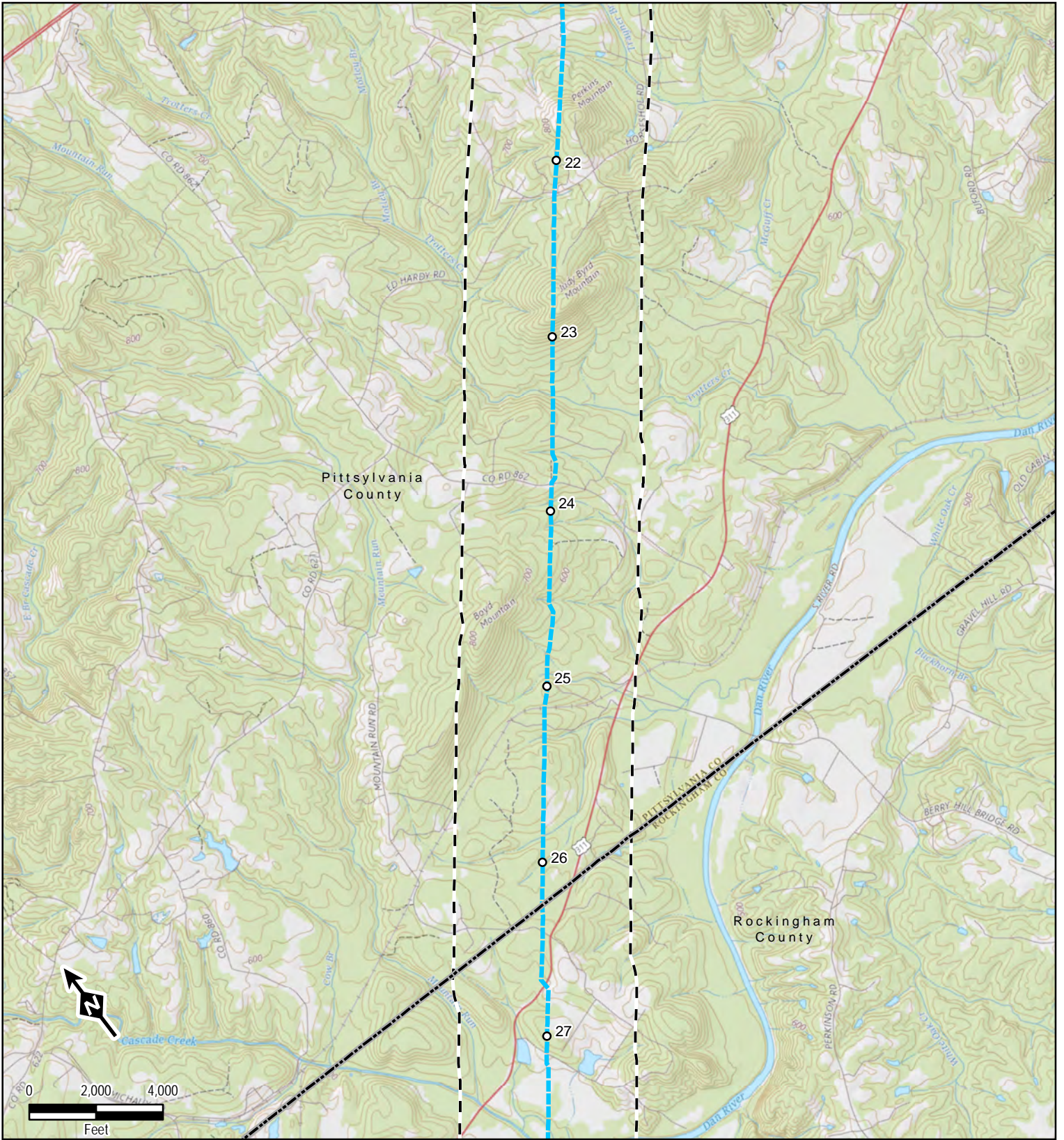
Mountain Valley
PIPELINE, LLC

Project Overview
Map

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

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Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11

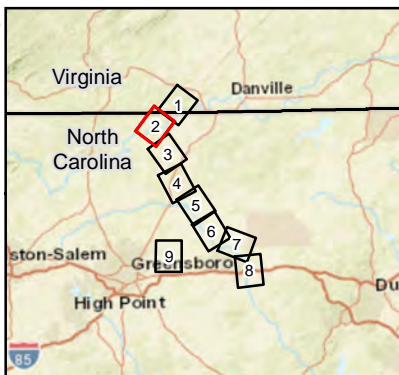
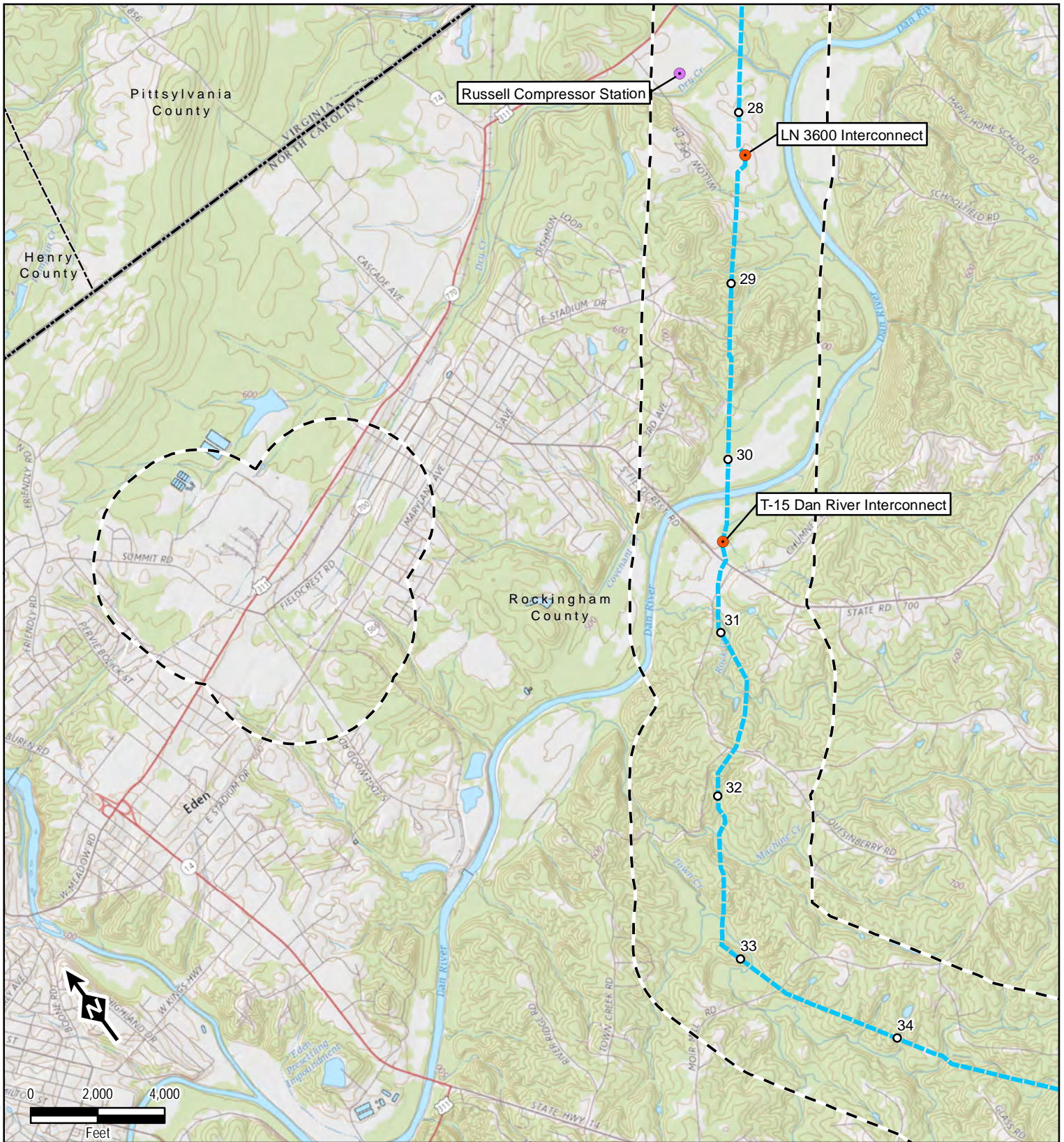


**North Carolina
Facilities Map**

Sheet 1 of 9



600 Willowbrook Ln
West Chester, PA 19382



Legend

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Mountain Valley PIPELINE LLC

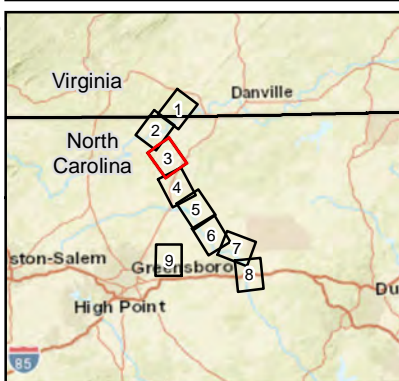
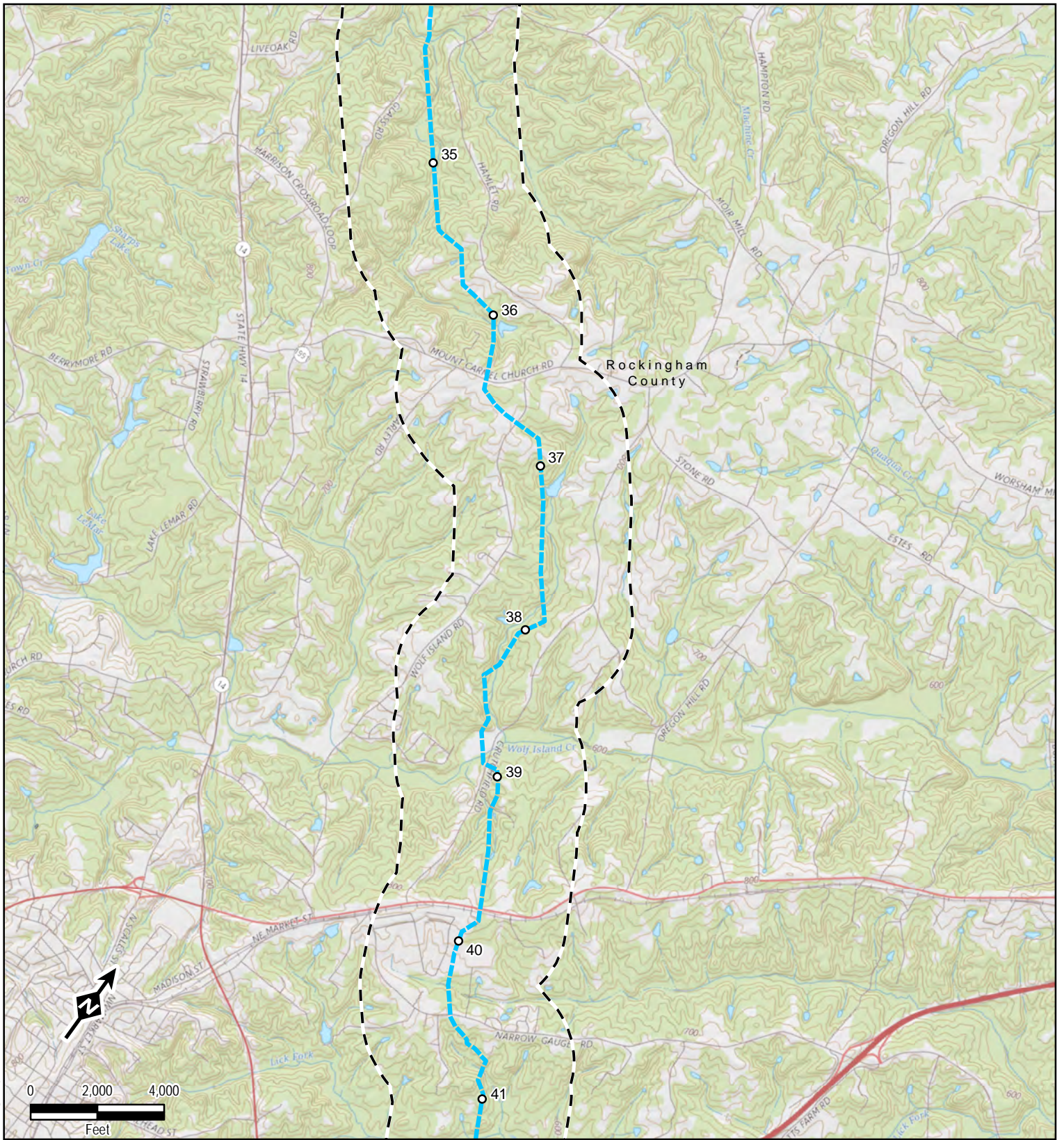
North Carolina Facilities Map

Sheet 2 of 9

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Legend

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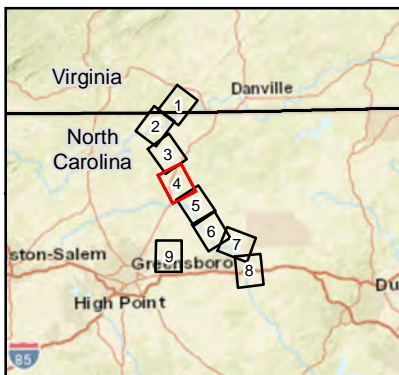
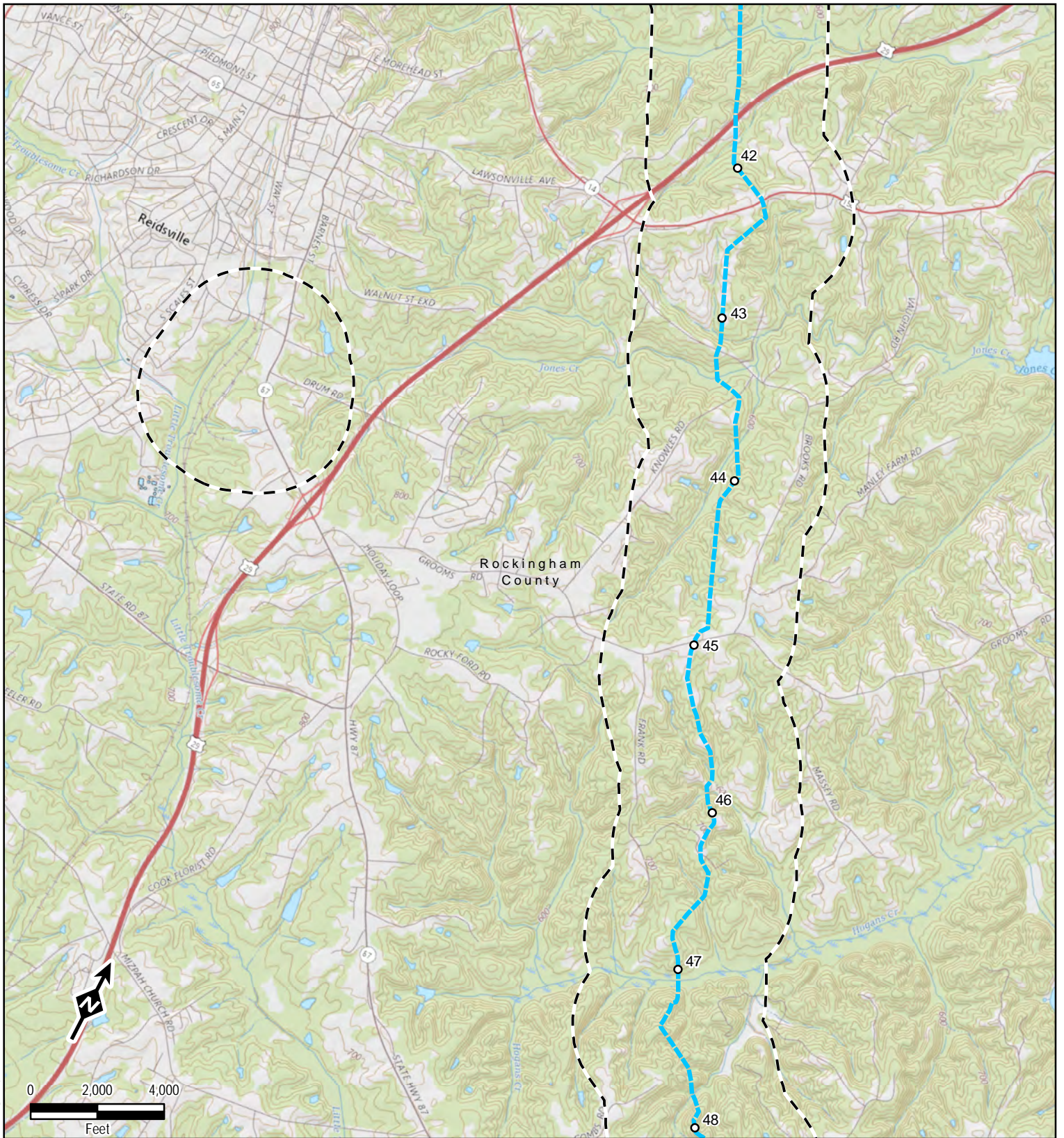
North Carolina Facilities Map

Sheet 3 of 9

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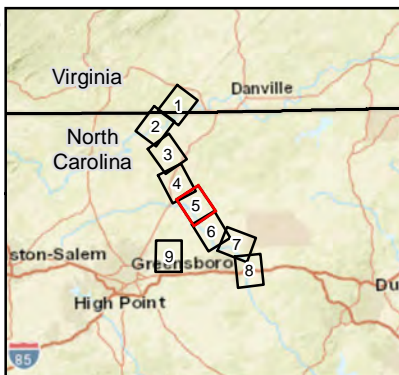
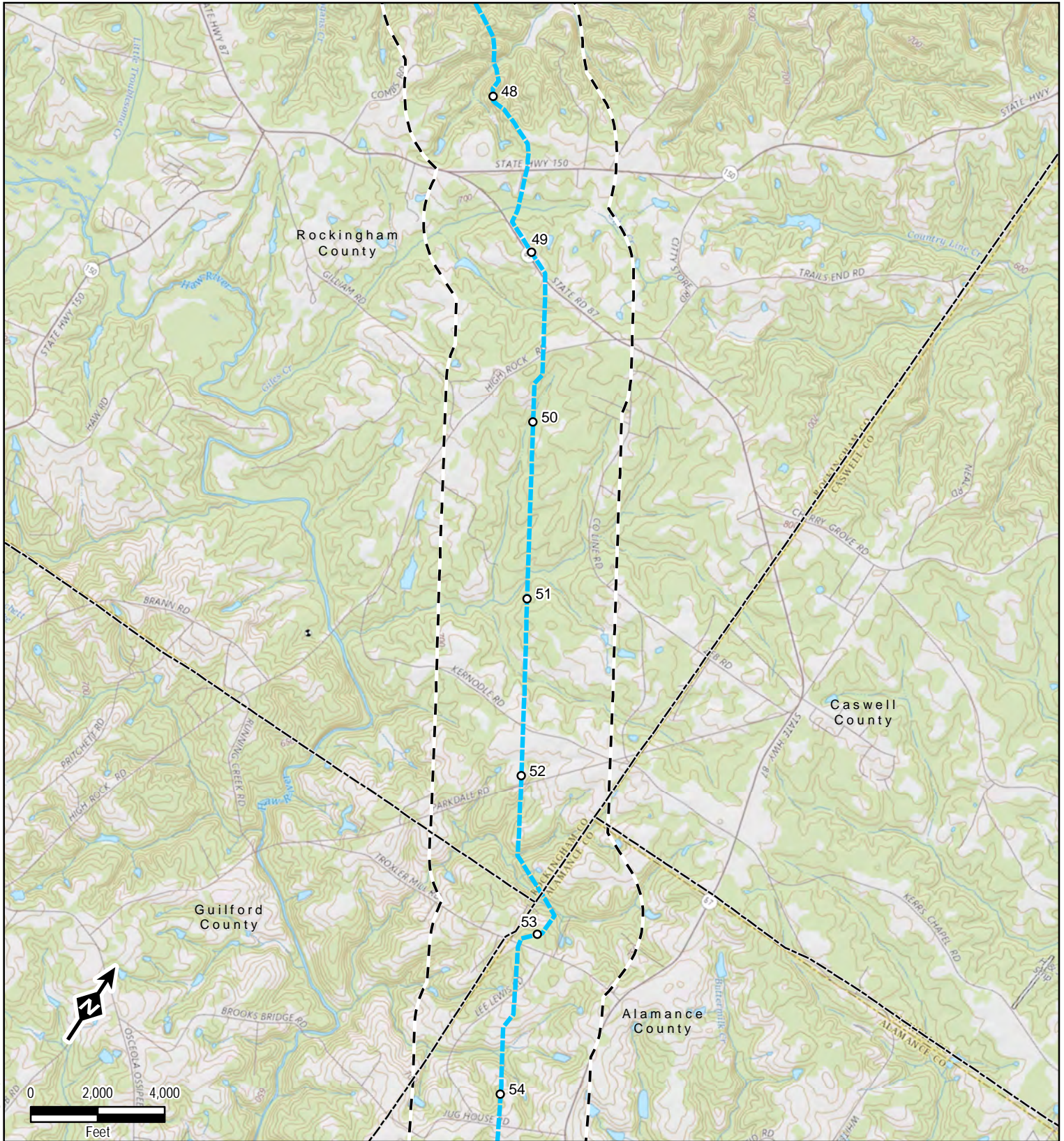
North Carolina Facilities Map

Sheet 4 of 9

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Mountain Valley
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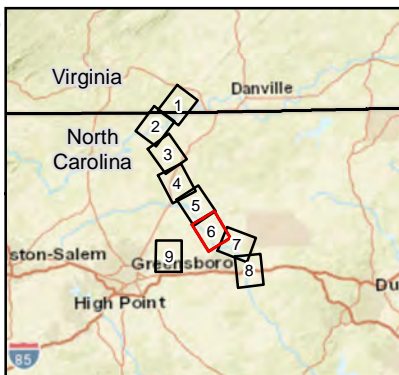
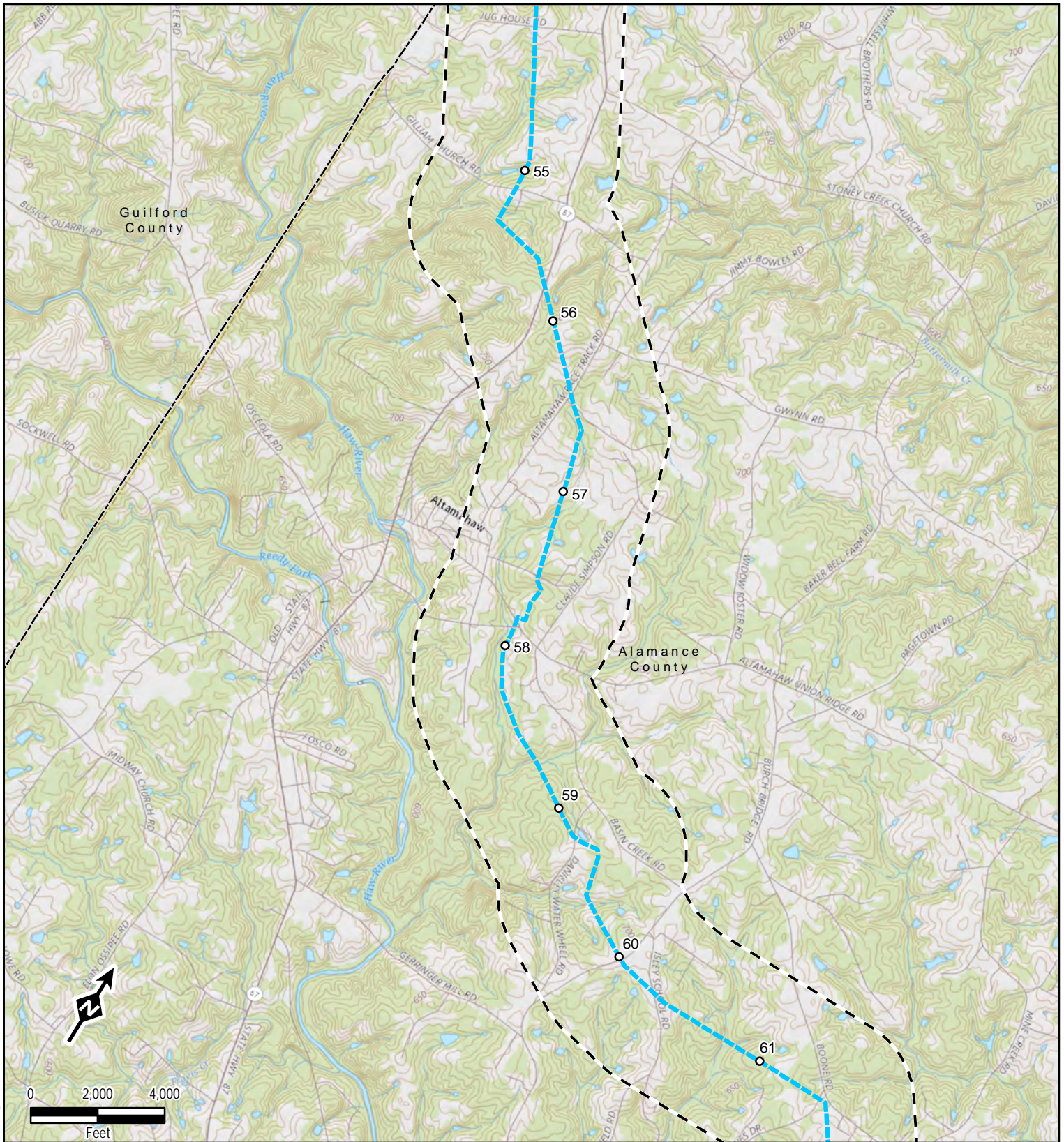
**North Carolina
Facilities Map**

Sheet 5 of 9

TRC
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600 Willowbrook Ln
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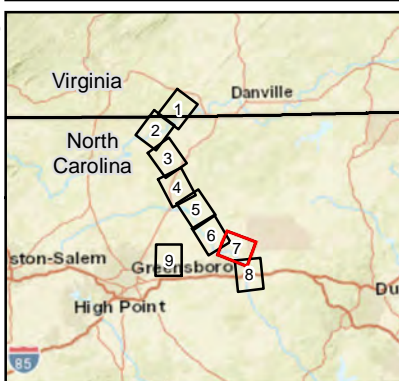
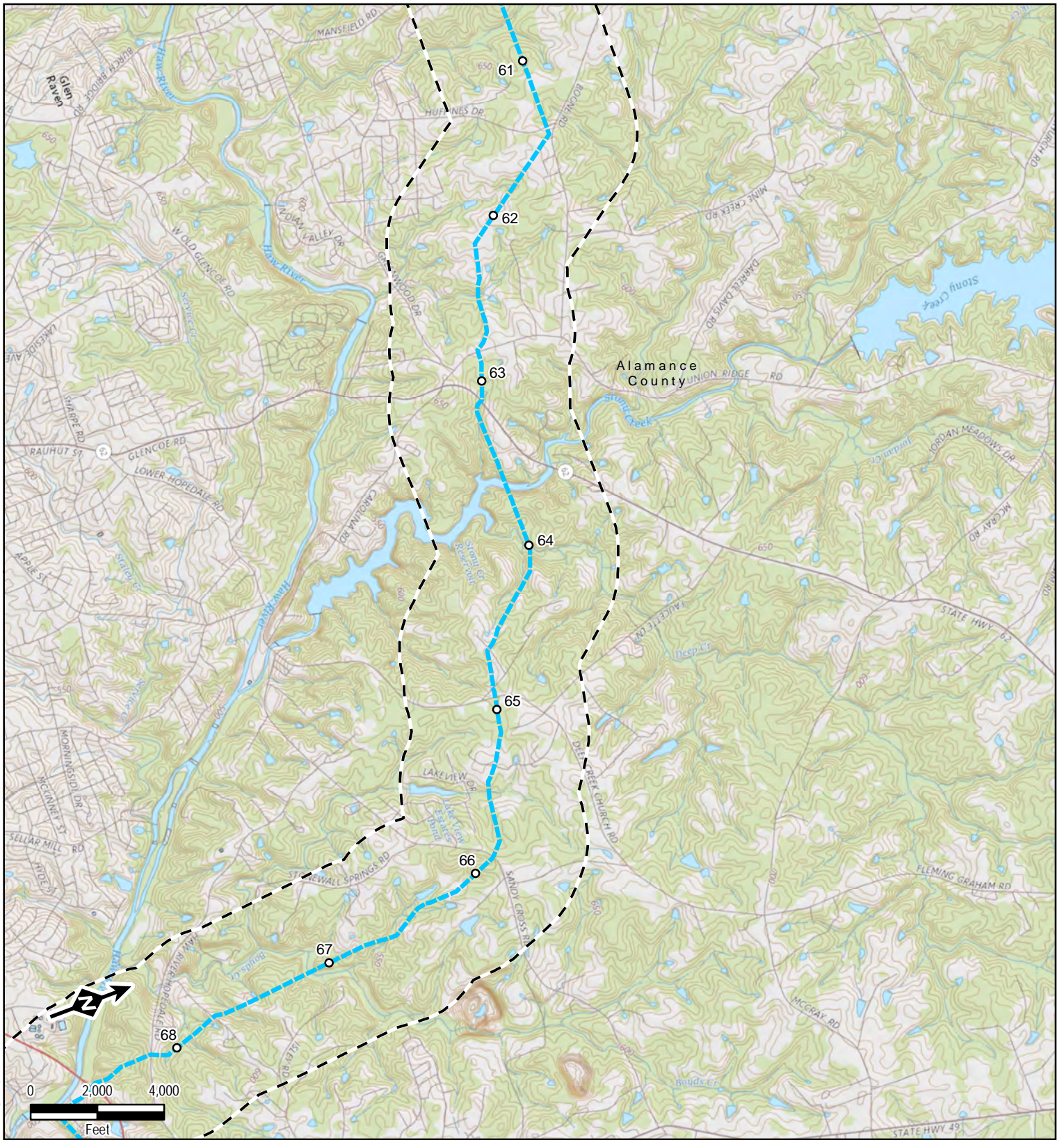
North Carolina Facilities Map

Sheet 6 of 9

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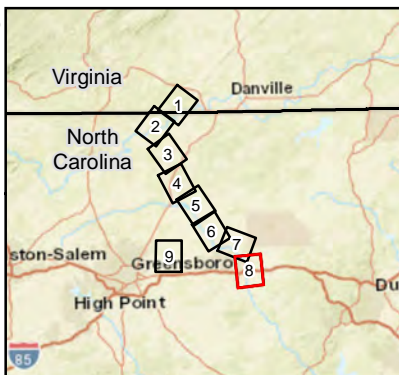
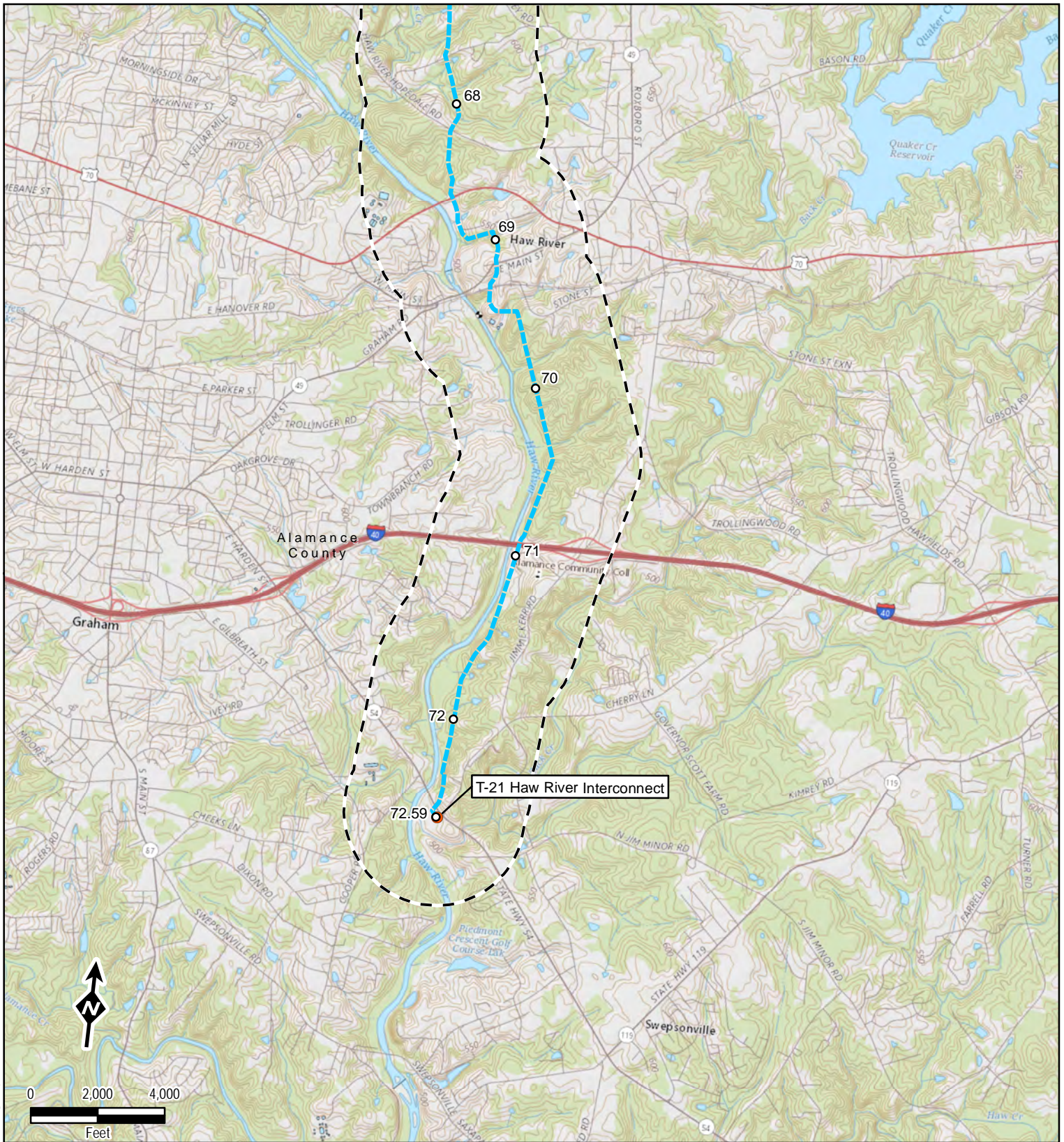
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Sheet 7 of 9

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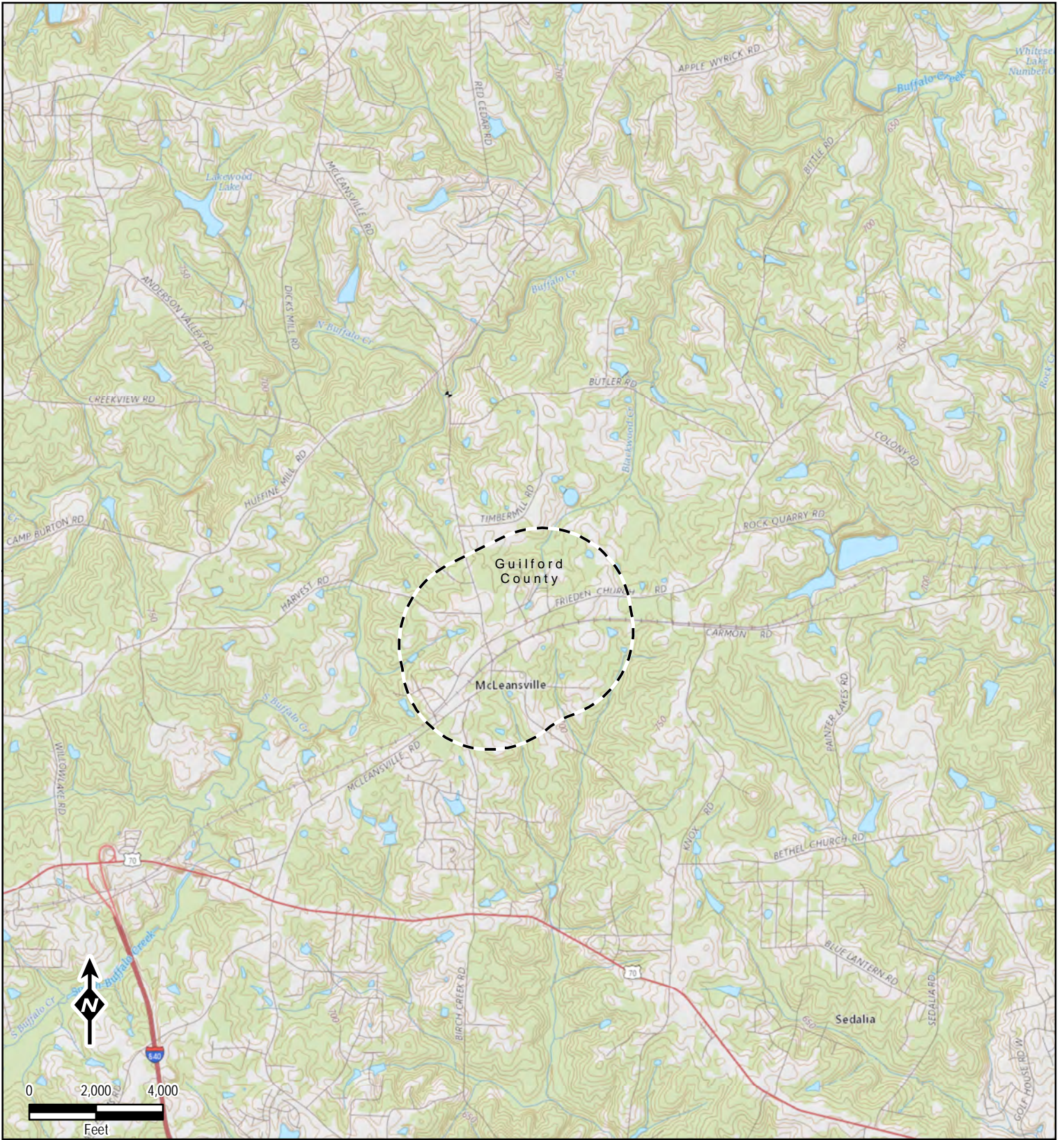
North Carolina Facilities Map

Sheet 8 of 9

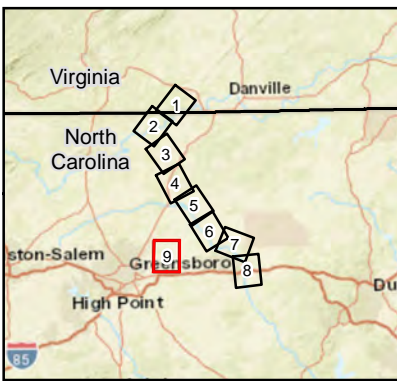
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North Carolina Facilities Map

Sheet 9 of 9



600 Willowbrook Ln
West Chester, PA 19382



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Jack Bricker, State Conservationist
USDA NRCS
NRCS State Office - Virginia
Natural Resources Conservation Service
1606 Santa Rosa Road, Suite 209
Richmond, VA 23229

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Mr. Bricker:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

On May 3, 2018, Mountain Valley filed a request with the Federal Energy Regulatory Commission (“FERC”) to use the National Environmental Policy Act pre-filing process (“Pre-filing Process”) for the MVP Southgate Project and the FERC issued a Pre-Filing docket number (PF18-4-000) to place information related to the Project into the public record. On May 15, 2018, the FERC granted Mountain Valley’s Pre-Filing request. The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating the project prior to filing a formal application with the FERC. Following the Pre-filing Process, Mountain Valley will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently targeted to be filed in November 2018. All other federal agency applications are planned to be filed in a similar time frame.

In Virginia, the proposed Project facilities in Pittsylvania County include approximately 26 miles of 24-inch-diameter natural gas pipeline, the Lambert Compressor Station, a pig launcher and receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this attachment also contains USGS quadrangle excerpts of the facilities in Virginia and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

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- Land currently in agricultural use
- Land with agricultural restrictions
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- Land with Grazing allotments
- Conservation Resource Protection lands
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Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

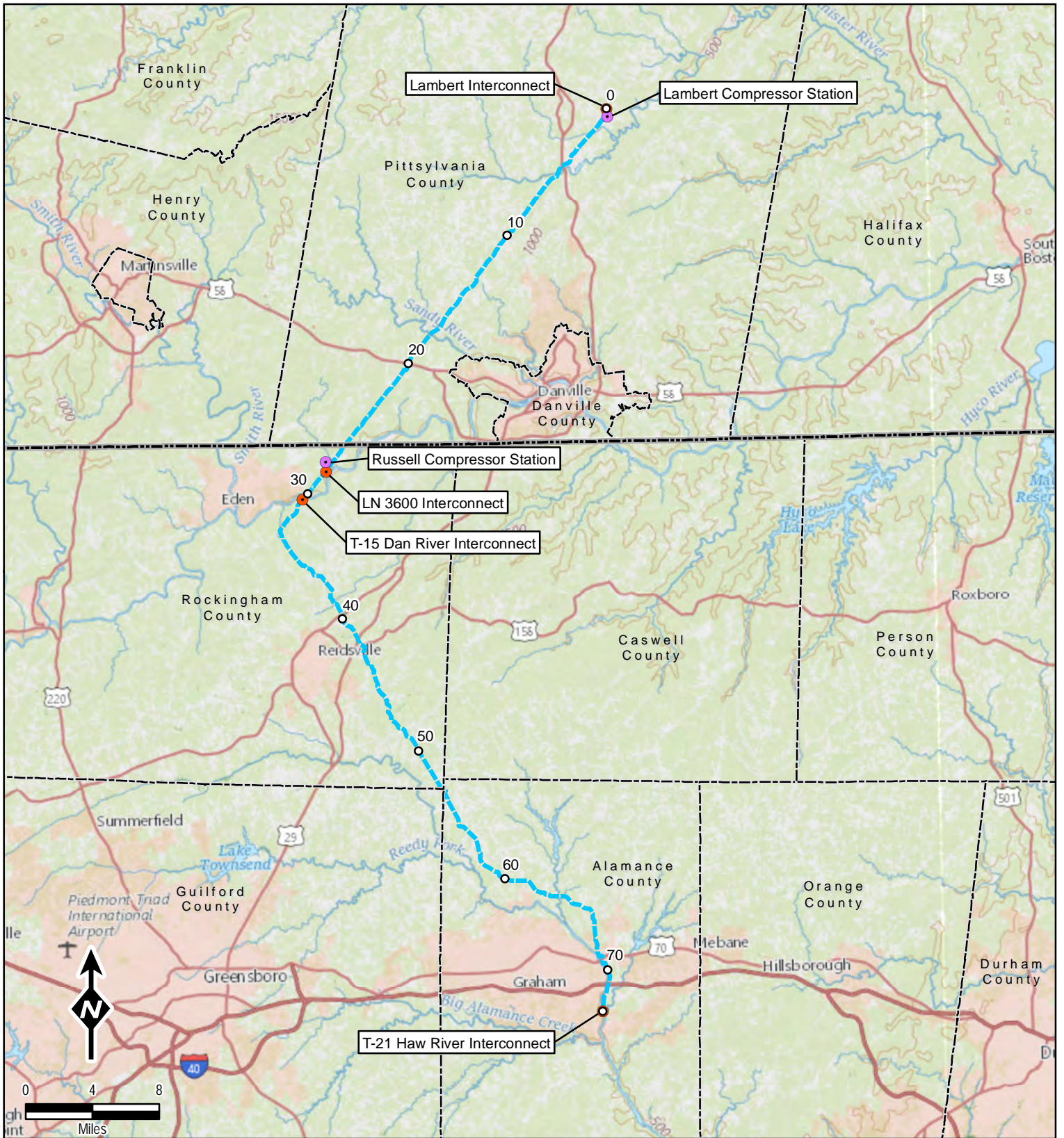
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in Virginia



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Legend

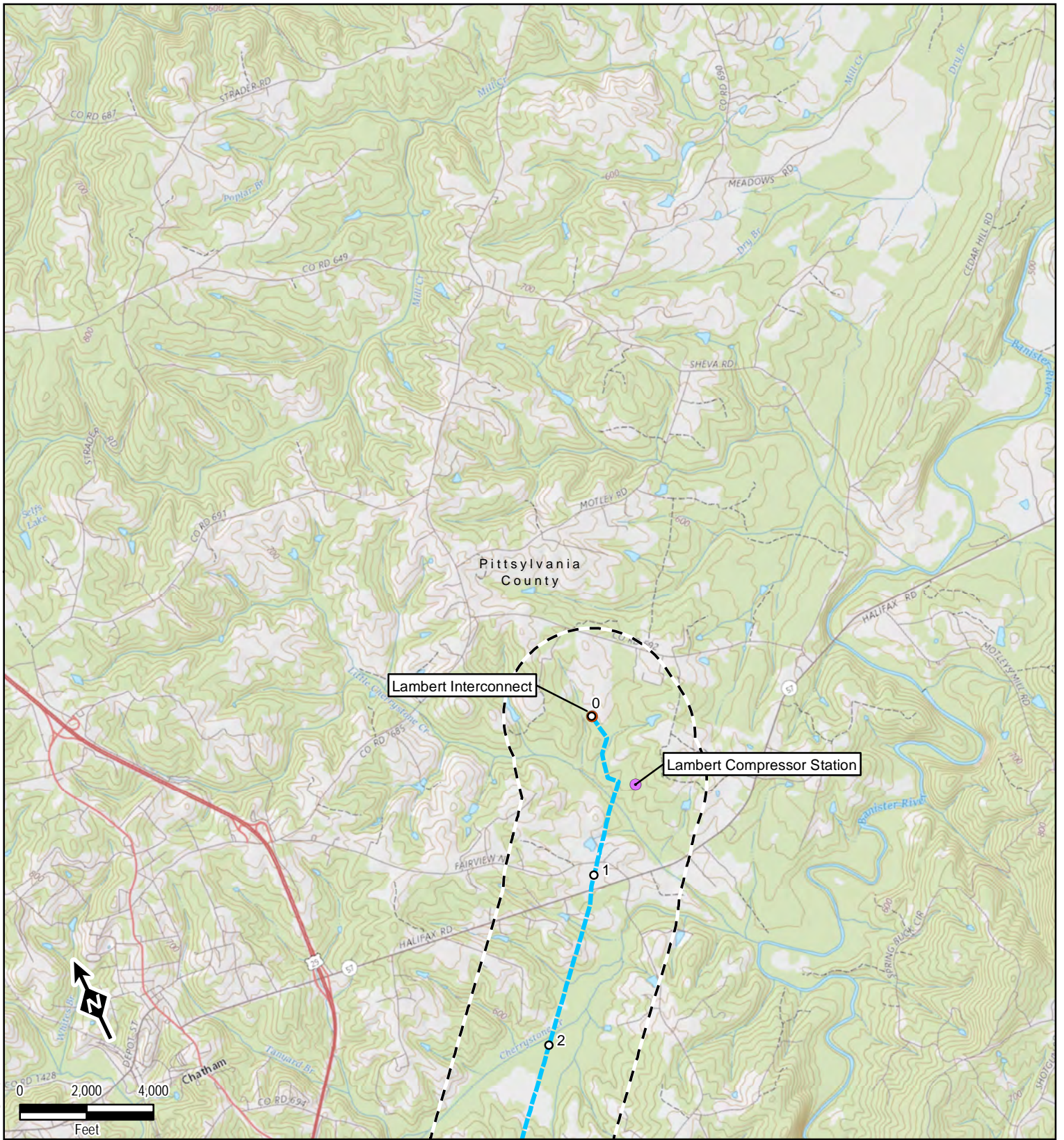
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- Mileposts
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- Meter Station
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- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

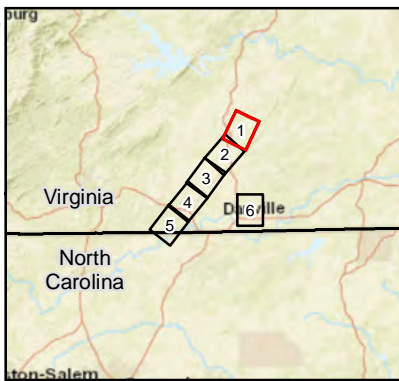
1 inch = 8 miles
When Printed 8.5x11

Project Overview Map

600 Willowbrook Ln
West Chester, PA 19382



S:\1-PROJECTS\EXTERIA\300423_MVP_Southgate\VA_Agency_Consult.mxd



Legend

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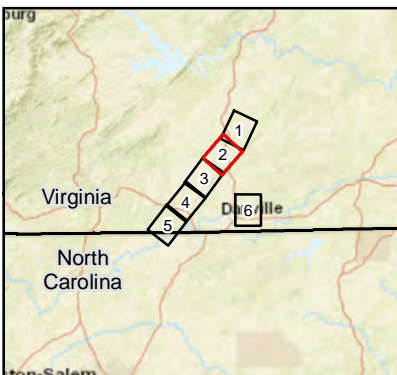
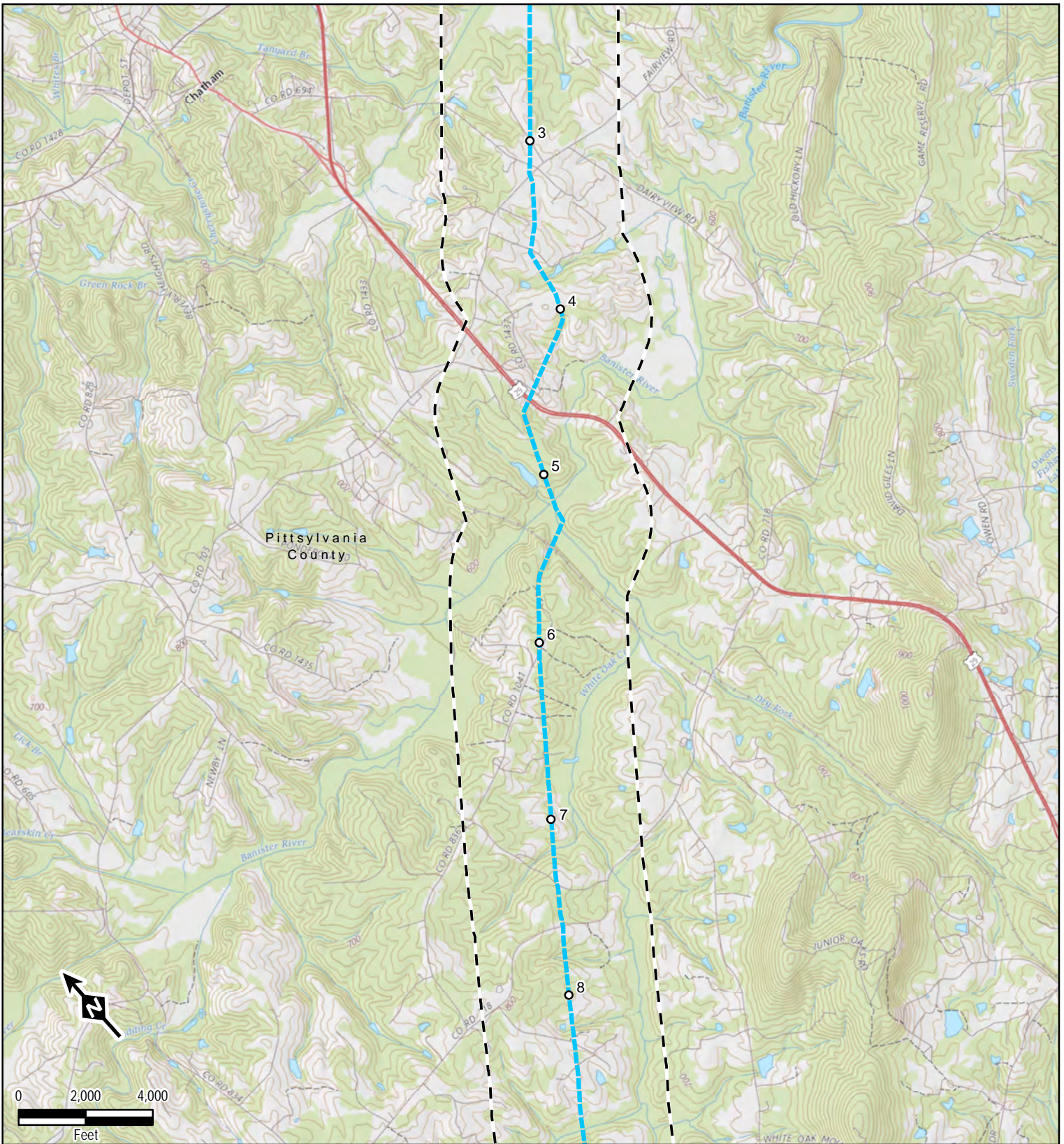
Virginia Facilities Map

Sheet 1 of 6



600 Willowbrook Ln
West Chester, PA 19382

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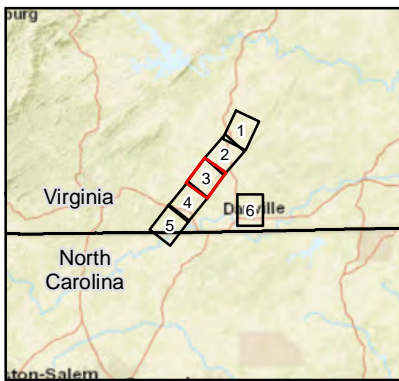
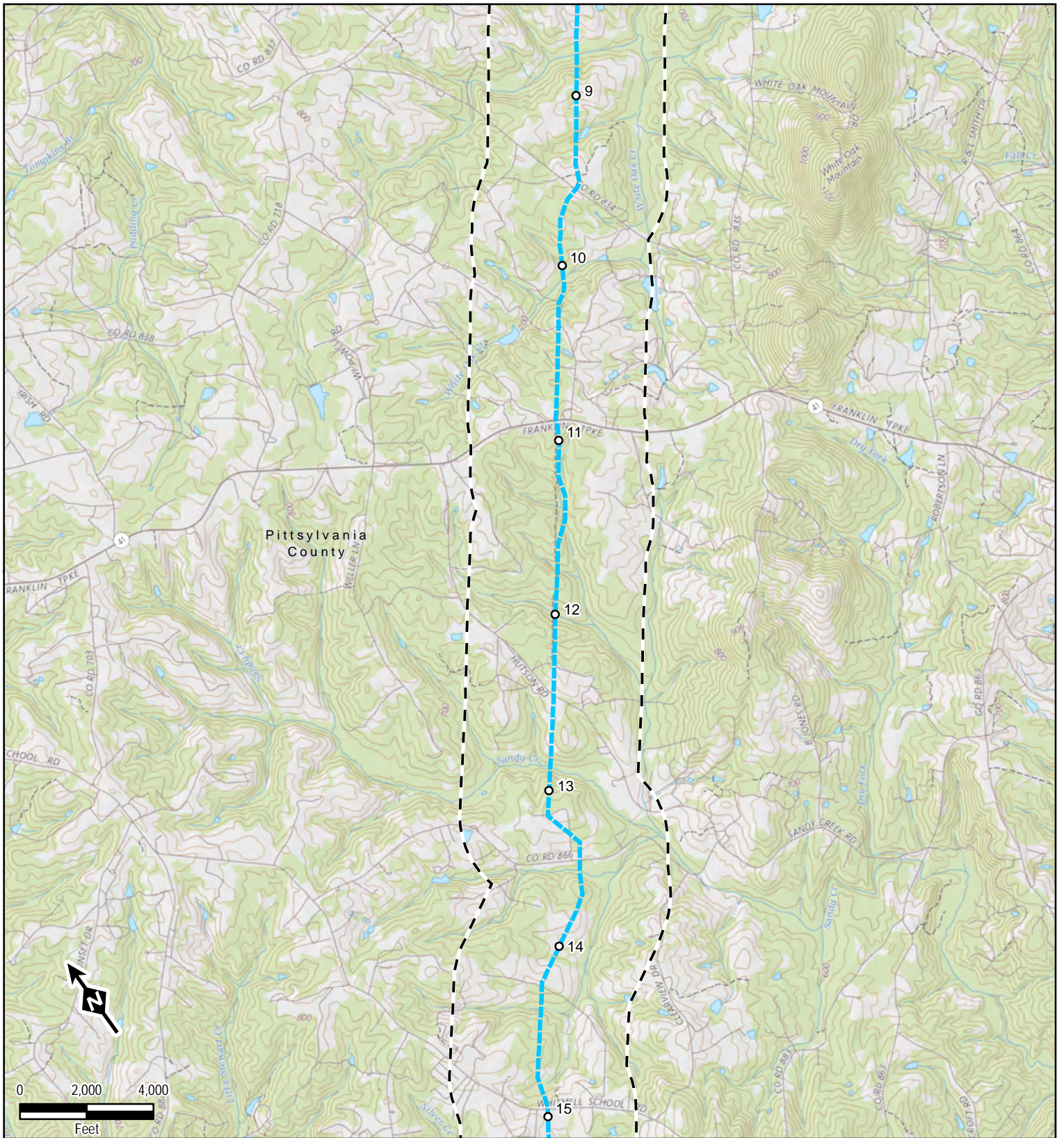
Mountain Valley
PIPELINE LLC

Virginia Facilities Map

Sheet 2 of 6

TRC
Results you can rely on

600 Willowbrook Ln
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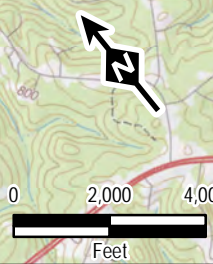
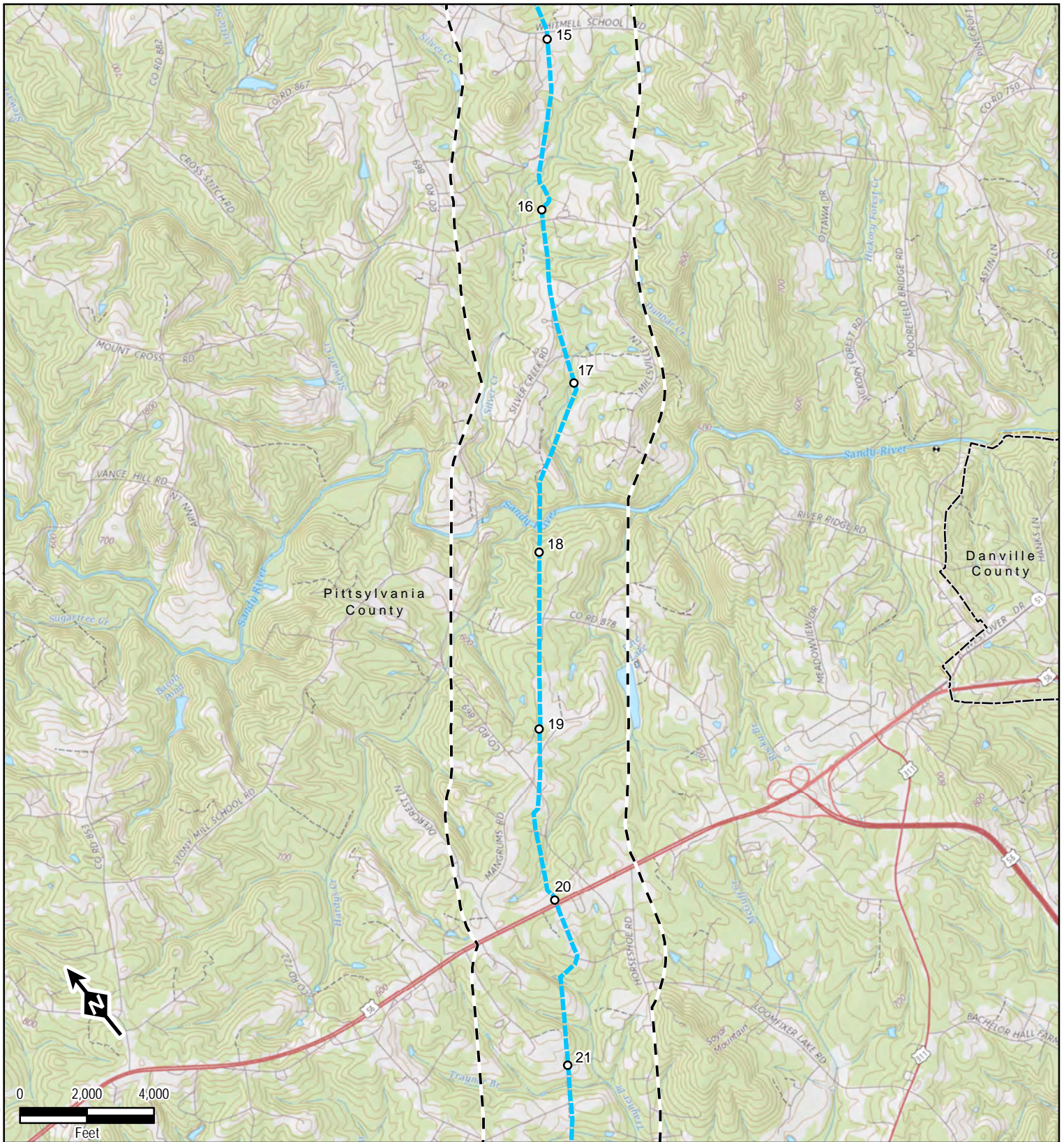


Virginia Facilities Map

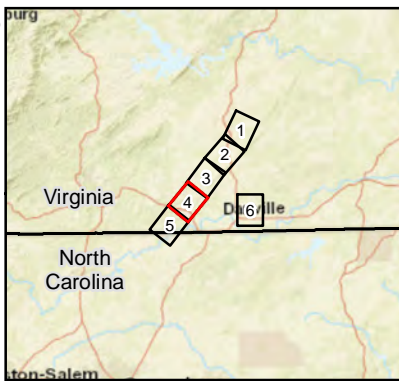
Sheet 3 of 6



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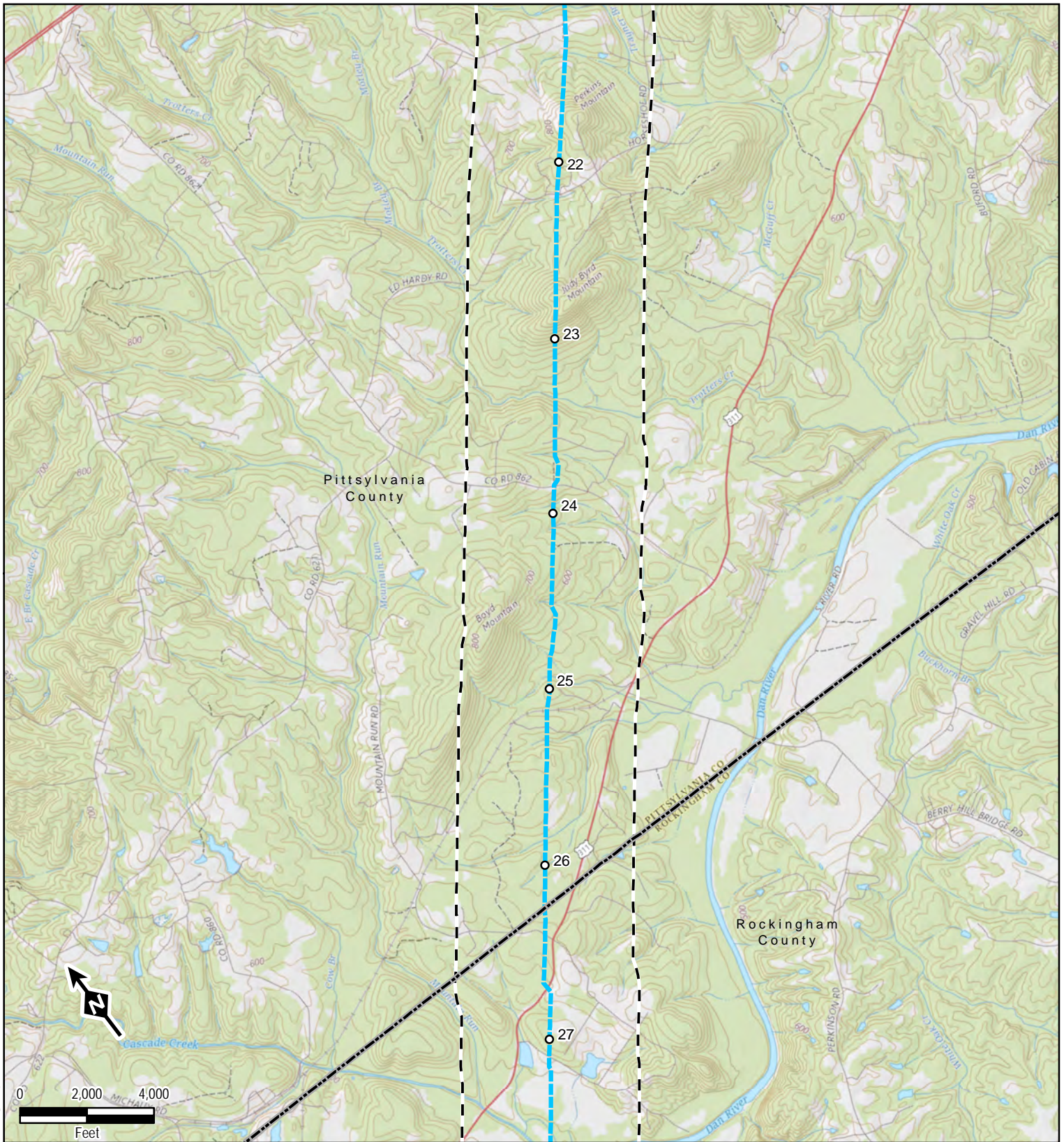


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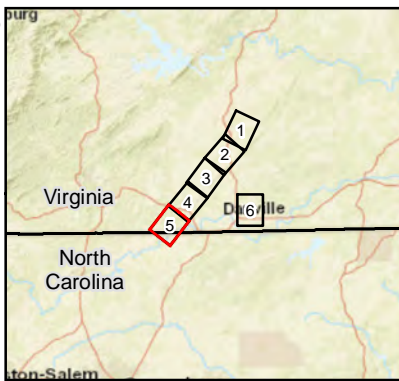
Sheet 4 of 6



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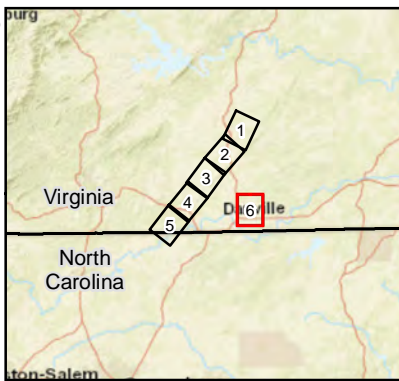
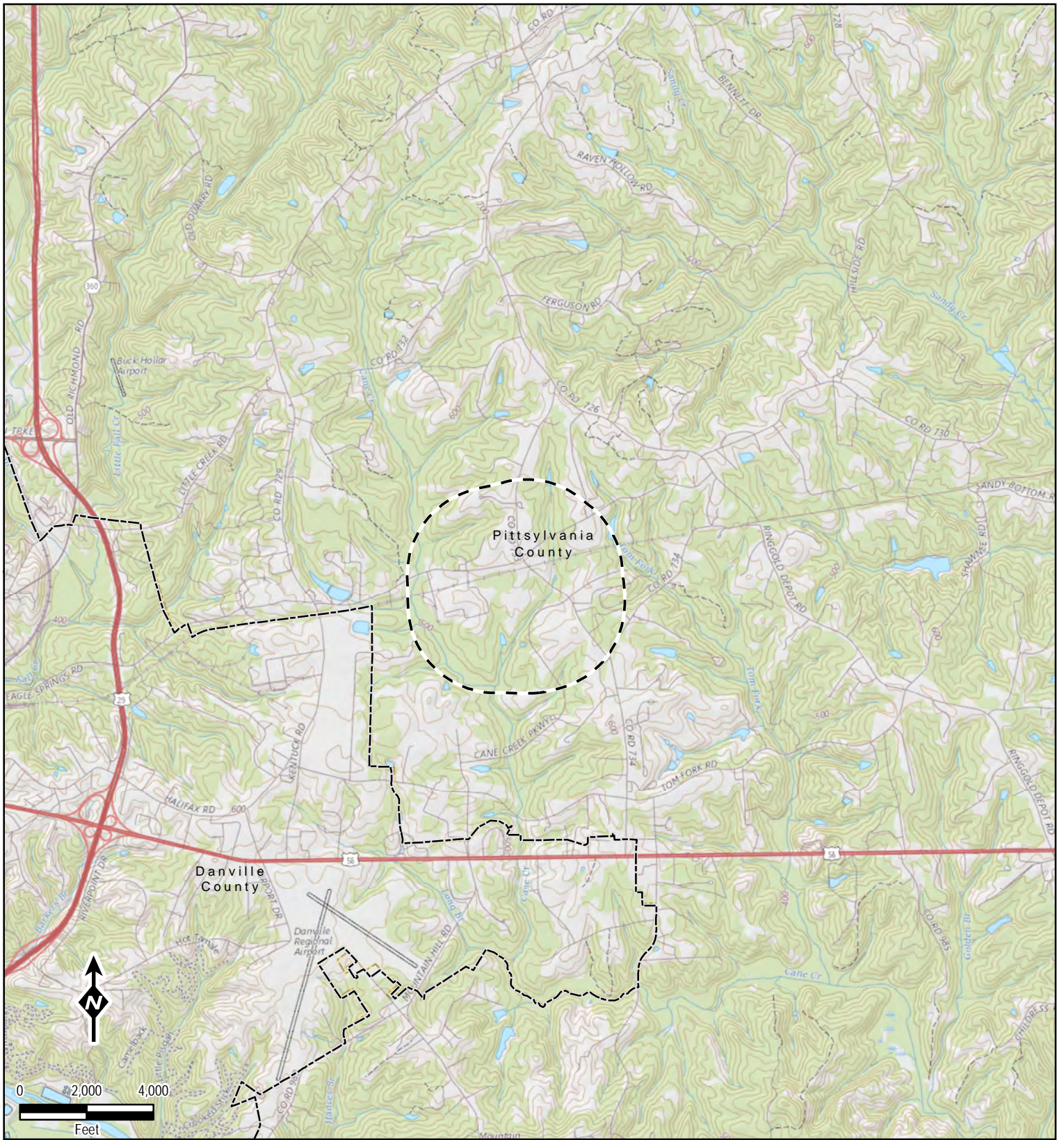


Virginia Facilities Map

Sheet 5 of 6



600 Willowbrook Ln
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Legend

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Virginia Facilities Map

Sheet 6 of 6



600 Willowbrook Ln
West Chester, PA 19382



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Ken Arney, Acting Regional Forester
USDA Forest Service
Southern Region - R8
1720 Peachtree Road, NW
Suite 760S
Atlanta, GA 30309-2449

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Mr. Arney:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

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In Virginia, the proposed Project facilities in Pittsylvania County include approximately 26 miles of 24-inch-diameter natural gas pipeline, the Lambert Compressor Station, a pig launcher and receiver, three mainline valves, and one meter station. In North Carolina, the proposed Project facilities include approximately 26 and 20 miles of 24-inch-diameter natural gas pipeline in Rockingham and Alamance County, respectively. Aboveground facilities in Rockingham County include the Russell Compressor Station in Rockingham County, a pig launcher, two mainline valves, and two meter stations. In Alamance County, the aboveground facilities include a pig receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this

attachment also contains USGS quadrangle excerpts of the facilities in Virginia and North Carolina and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

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Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

cc: John Zimmer
TRC Project Manager



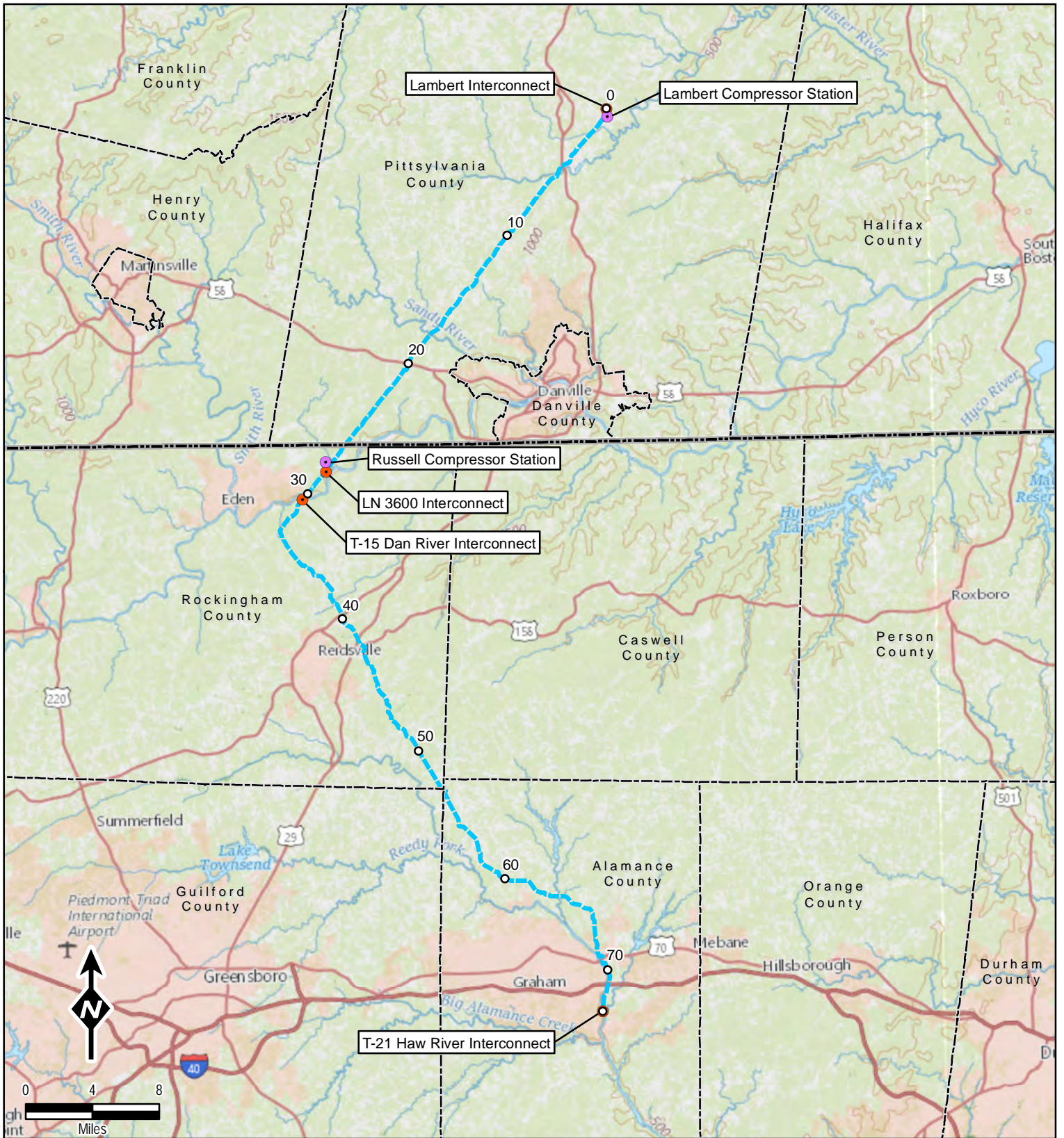
ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in Virginia

and

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



Legend

- Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

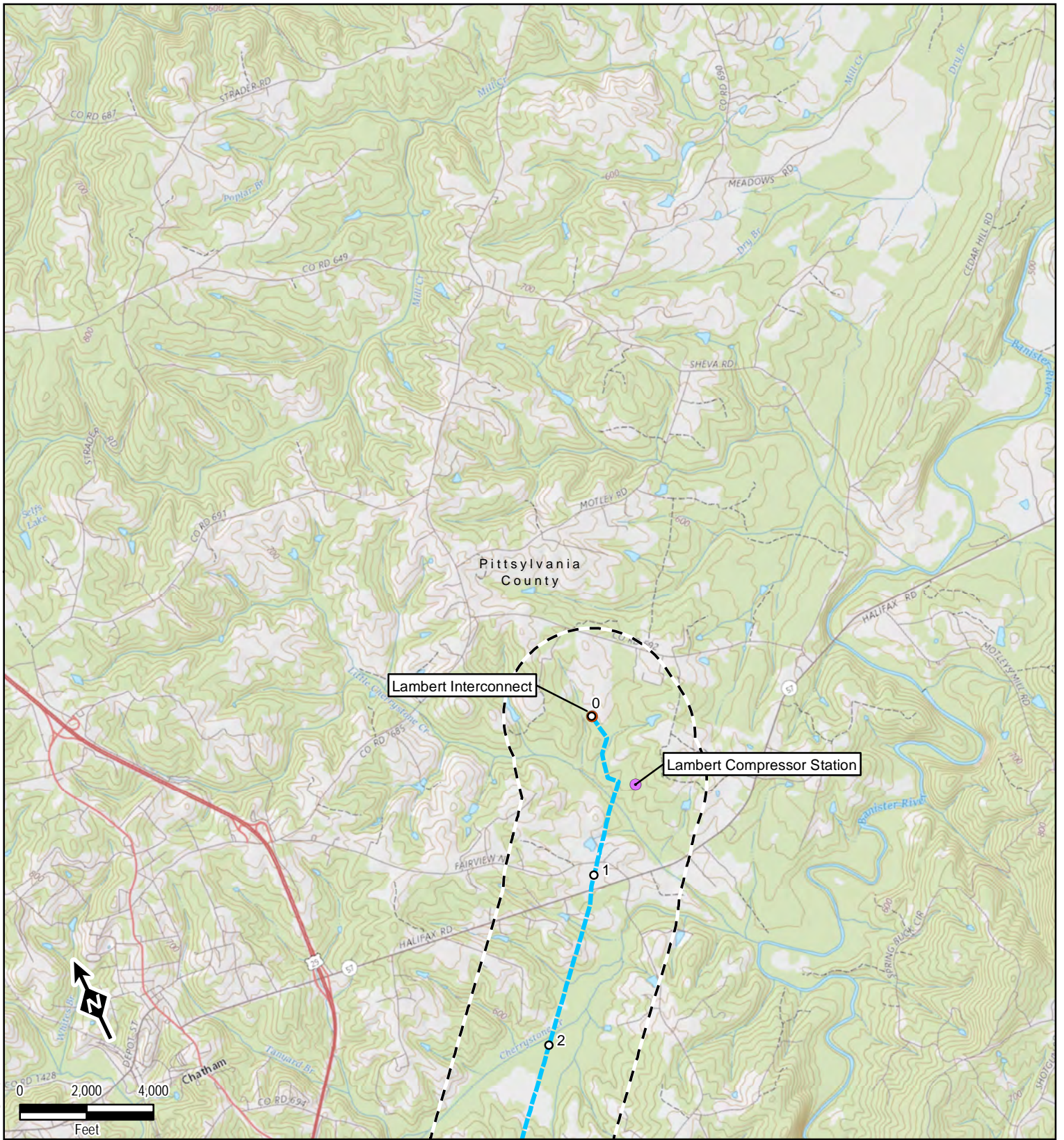


Project Overview Map

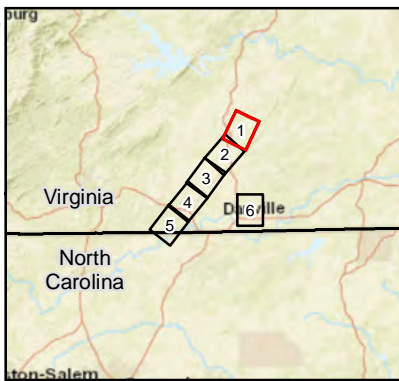


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Legend

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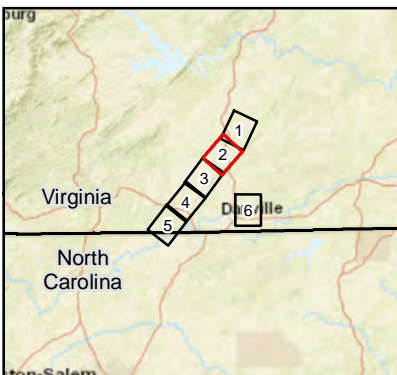
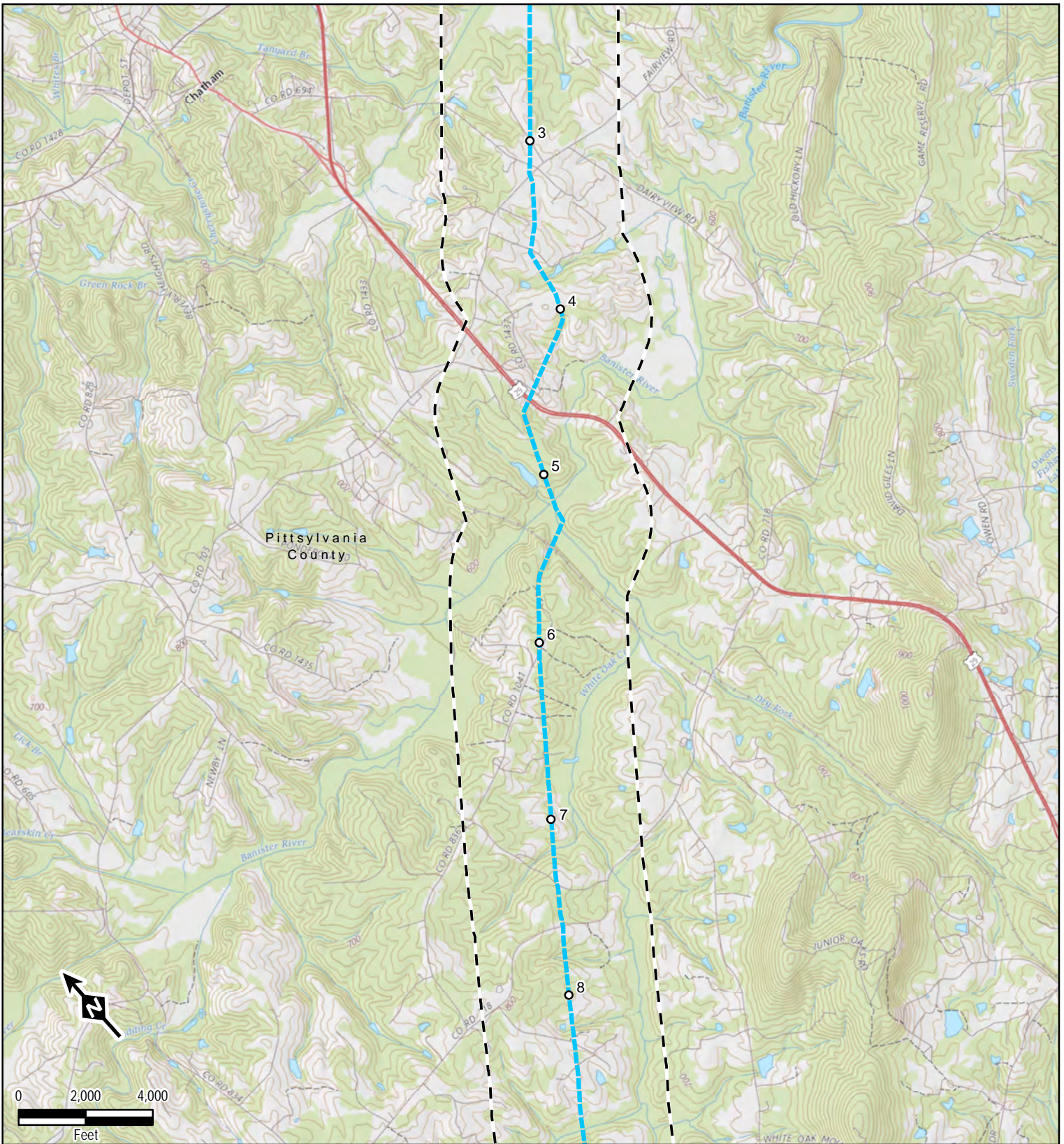
Virginia Facilities Map

Sheet 1 of 6



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Legend

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Mountain Valley
PIPELINE LLC

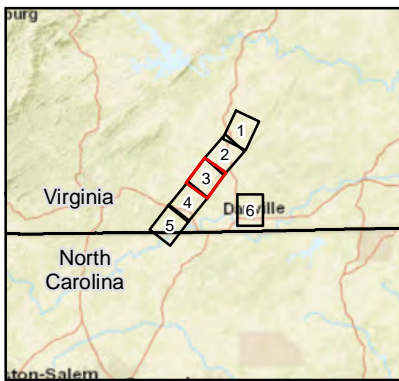
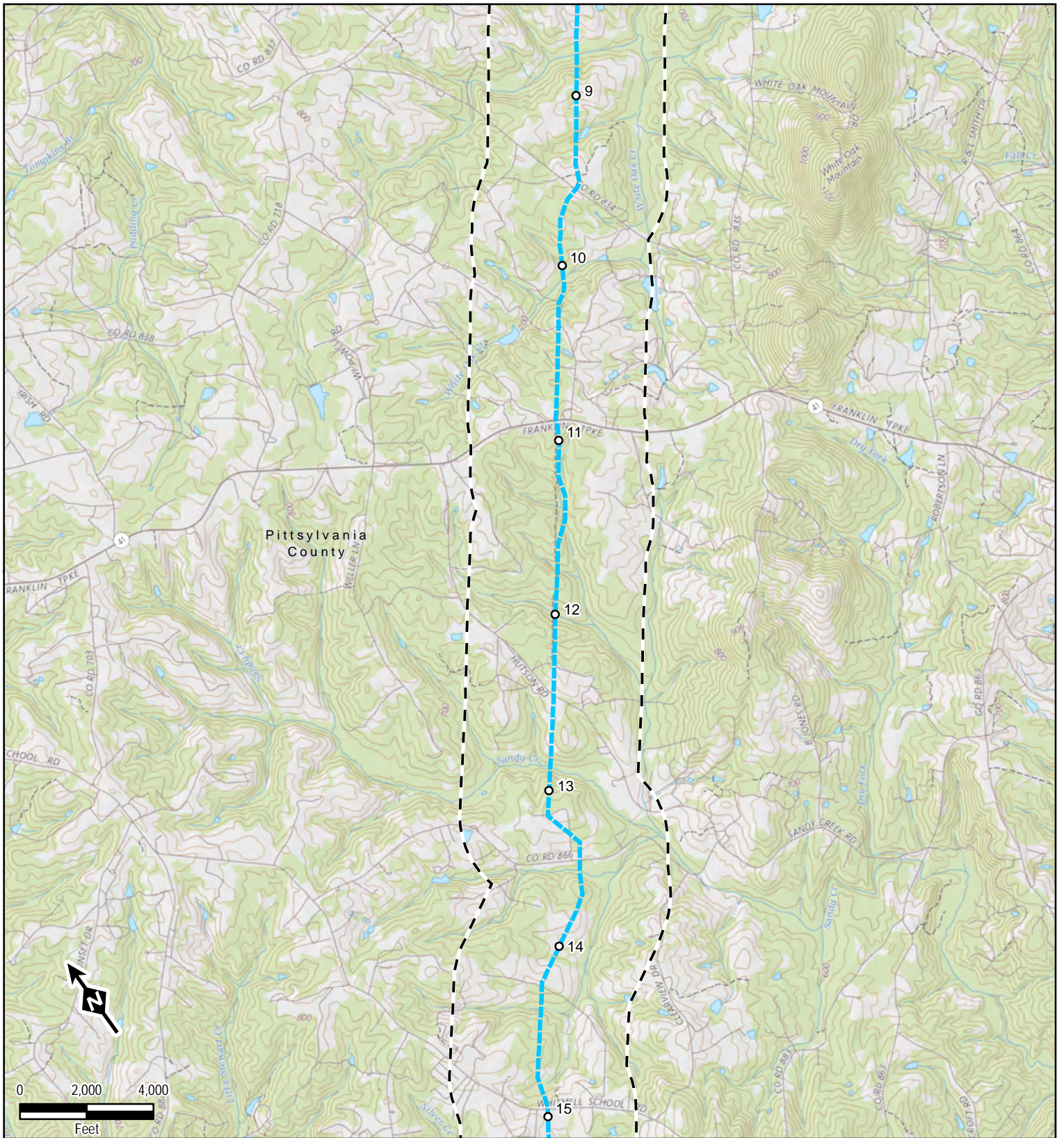
Virginia Facilities Map

Sheet 2 of 6

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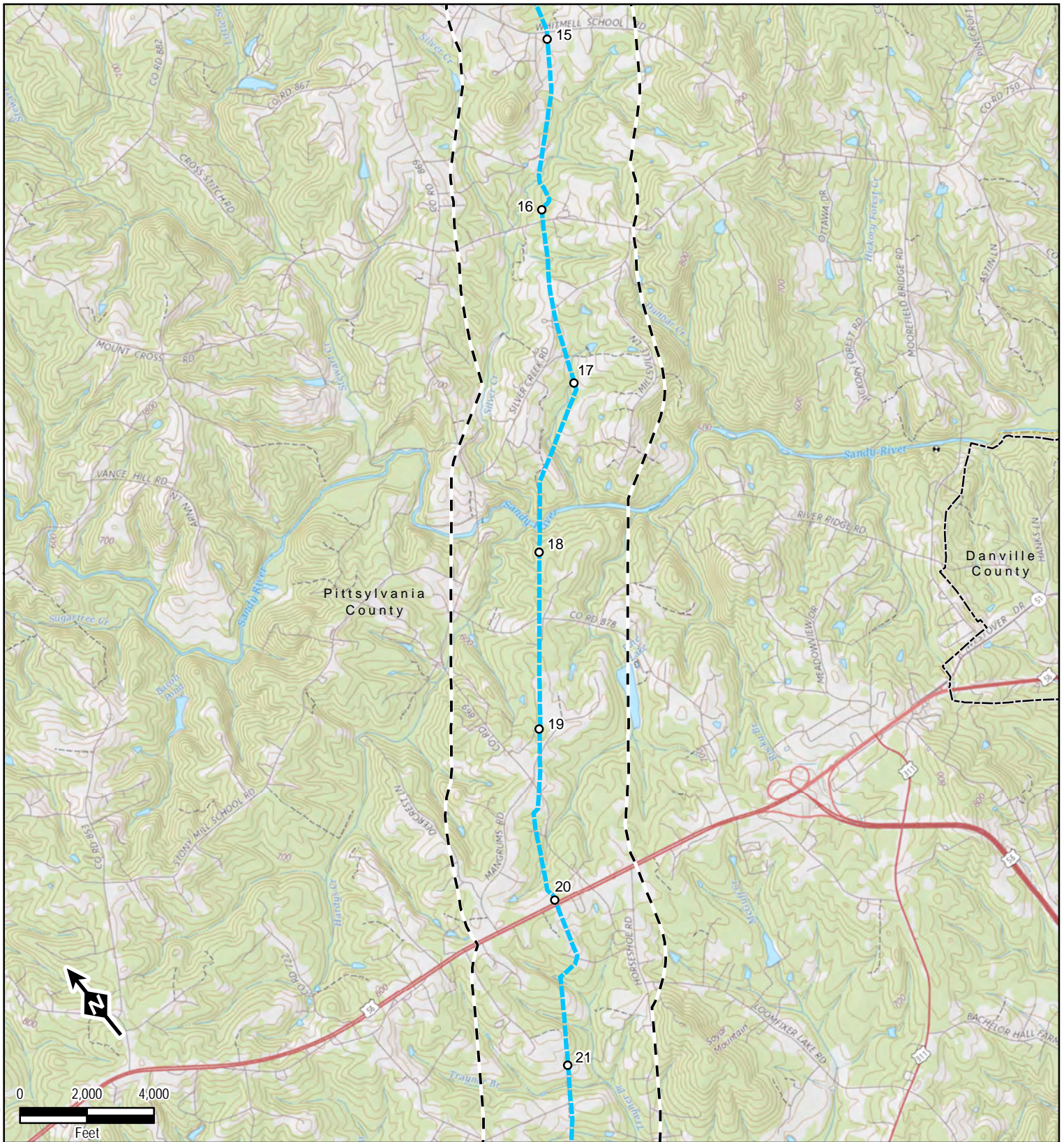


Virginia Facilities Map

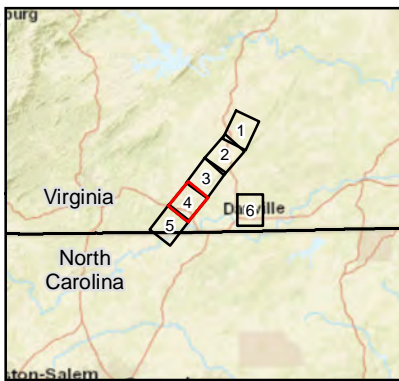
Sheet 3 of 6



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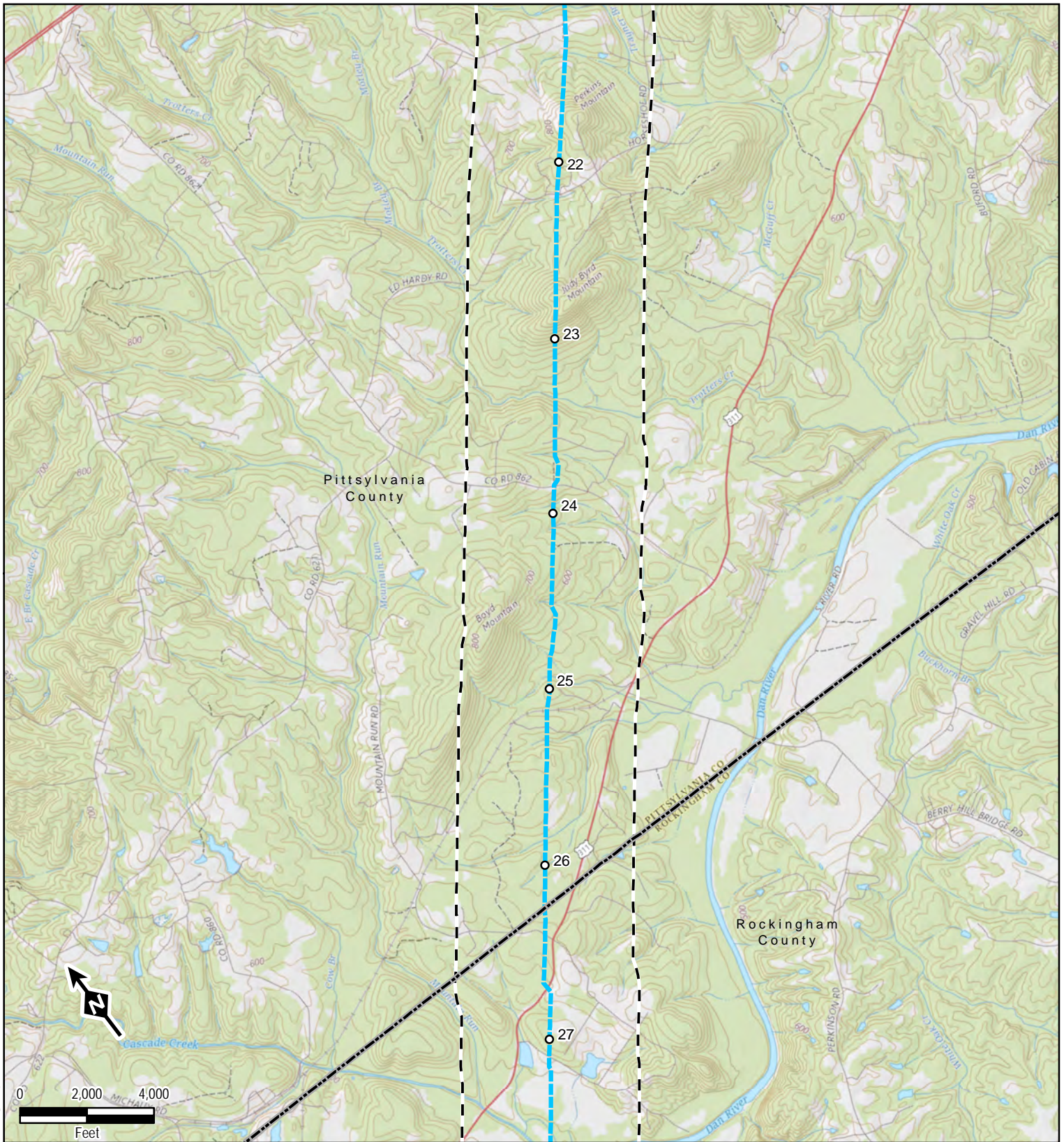


Virginia Facilities Map

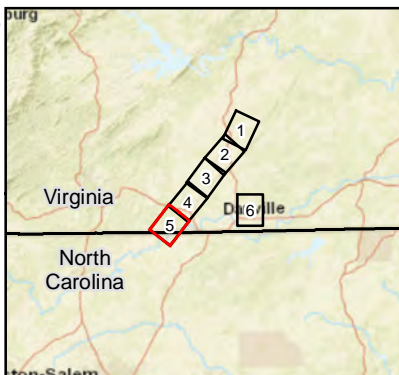
Sheet 4 of 6



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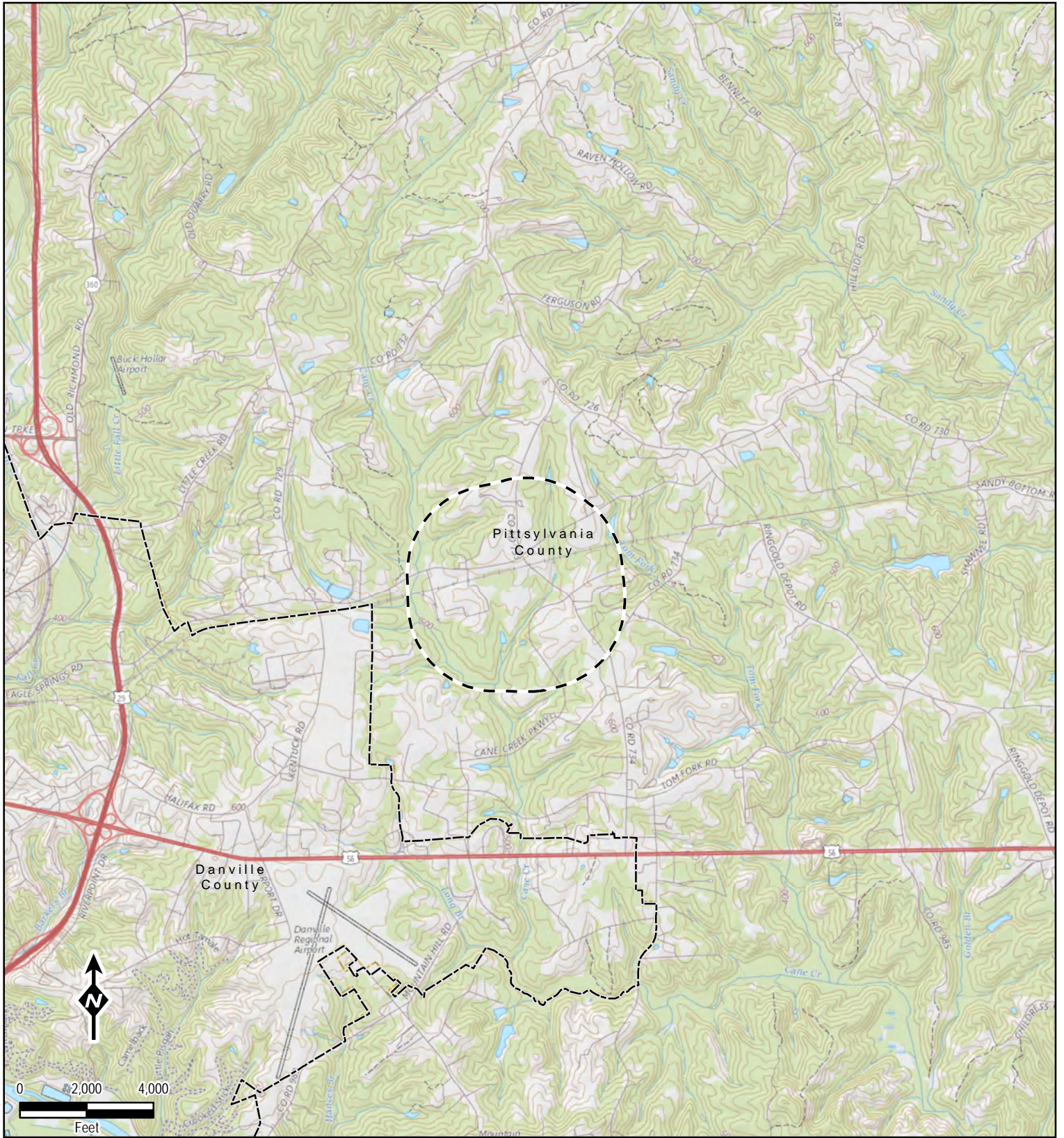


Virginia Facilities Map

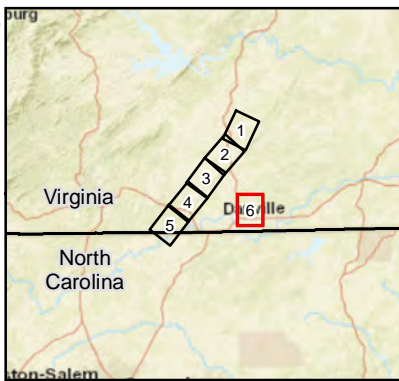
Sheet 5 of 6



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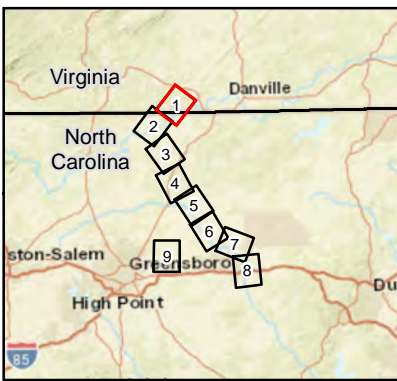
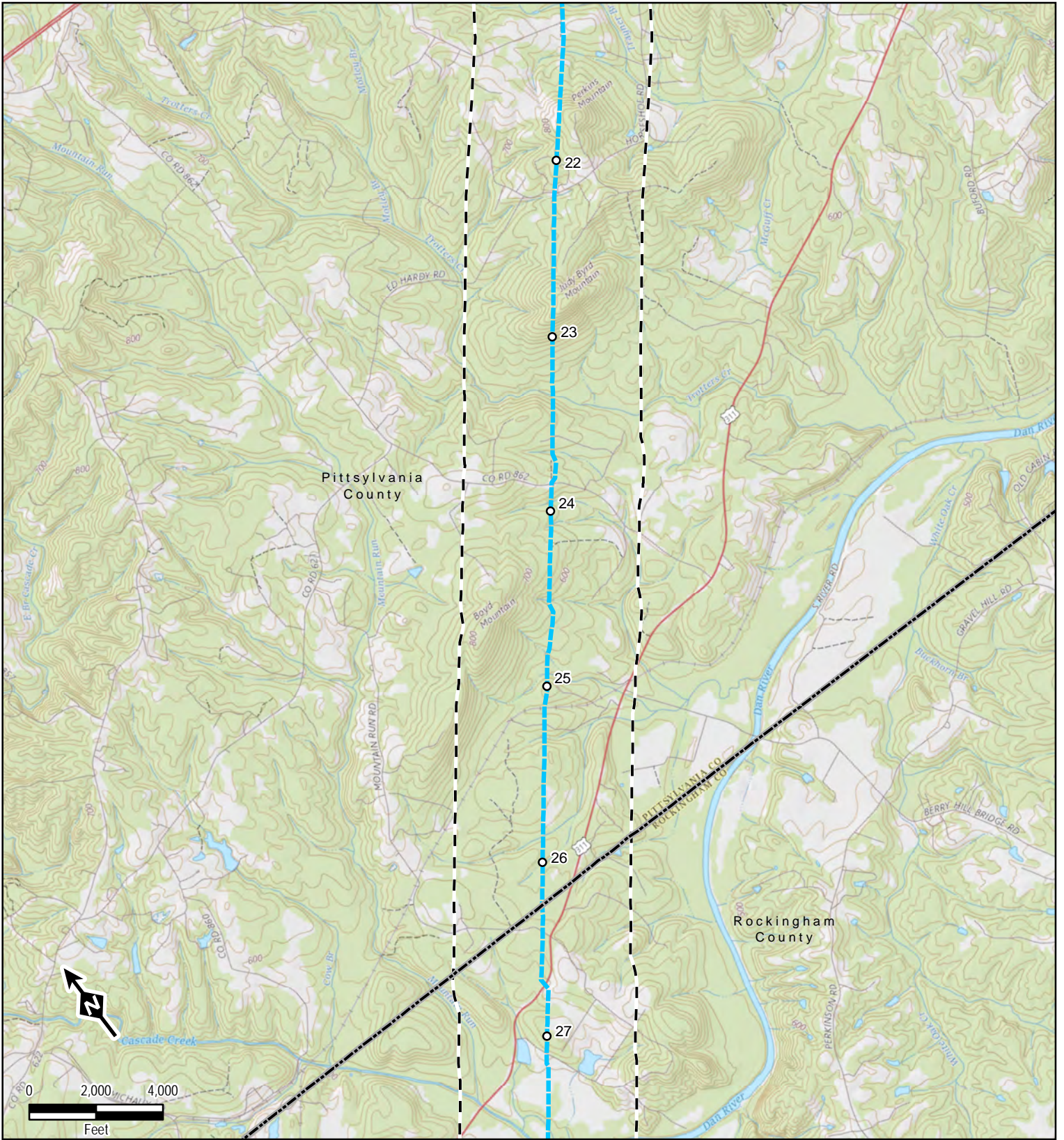
Virginia Facilities Map

Sheet 6 of 6



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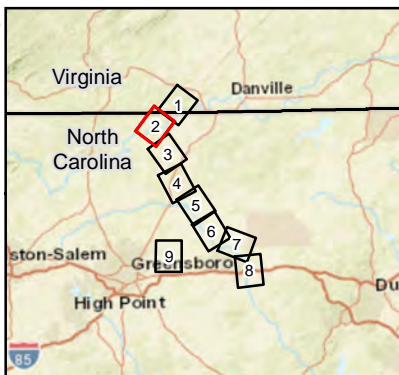
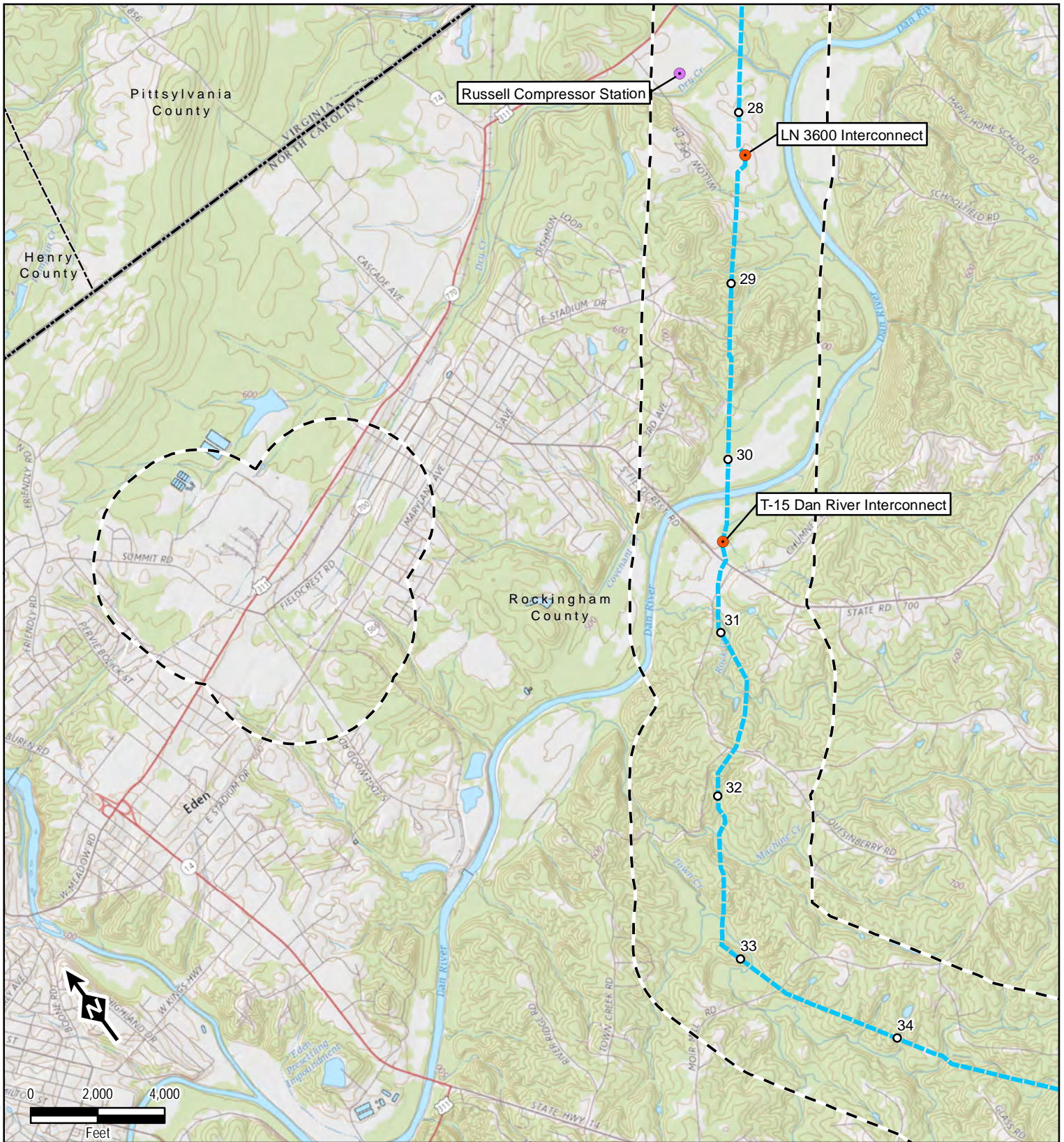


North Carolina Facilities Map

Sheet 1 of 9



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Legend

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Mountain Valley PIPELINE LLC

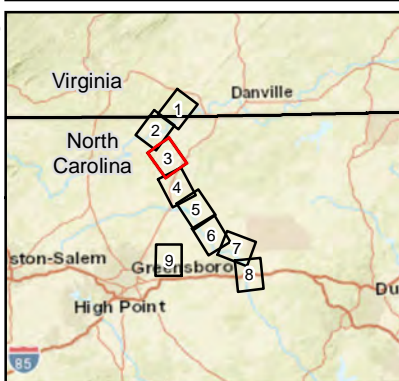
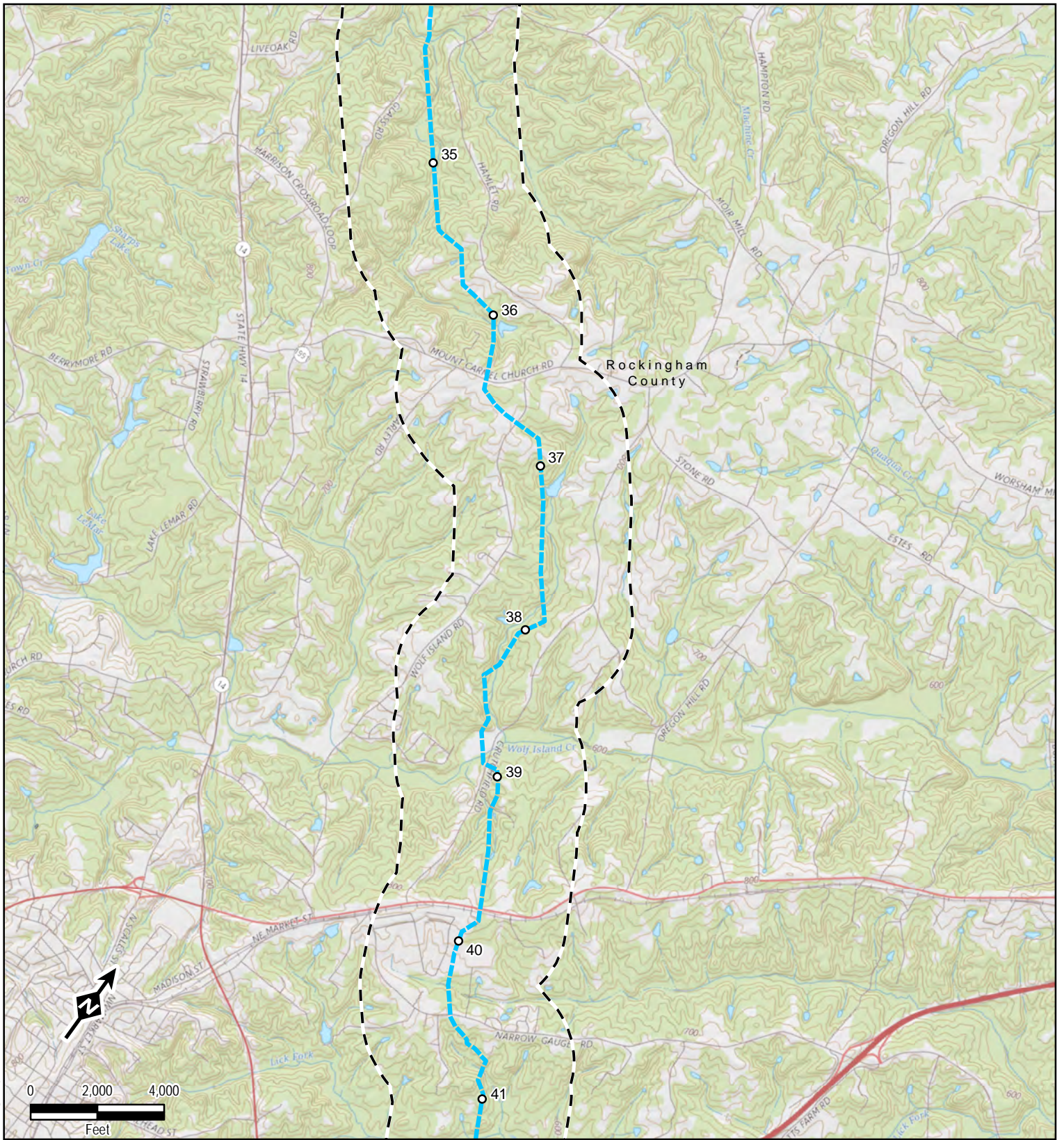
North Carolina Facilities Map

Sheet 2 of 9

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Results you can rely on

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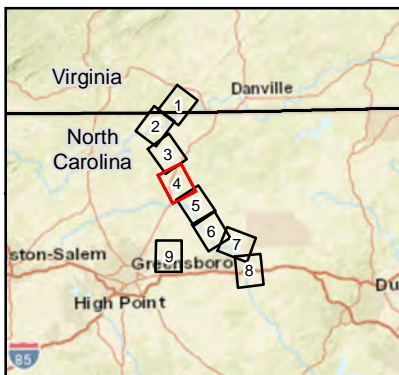
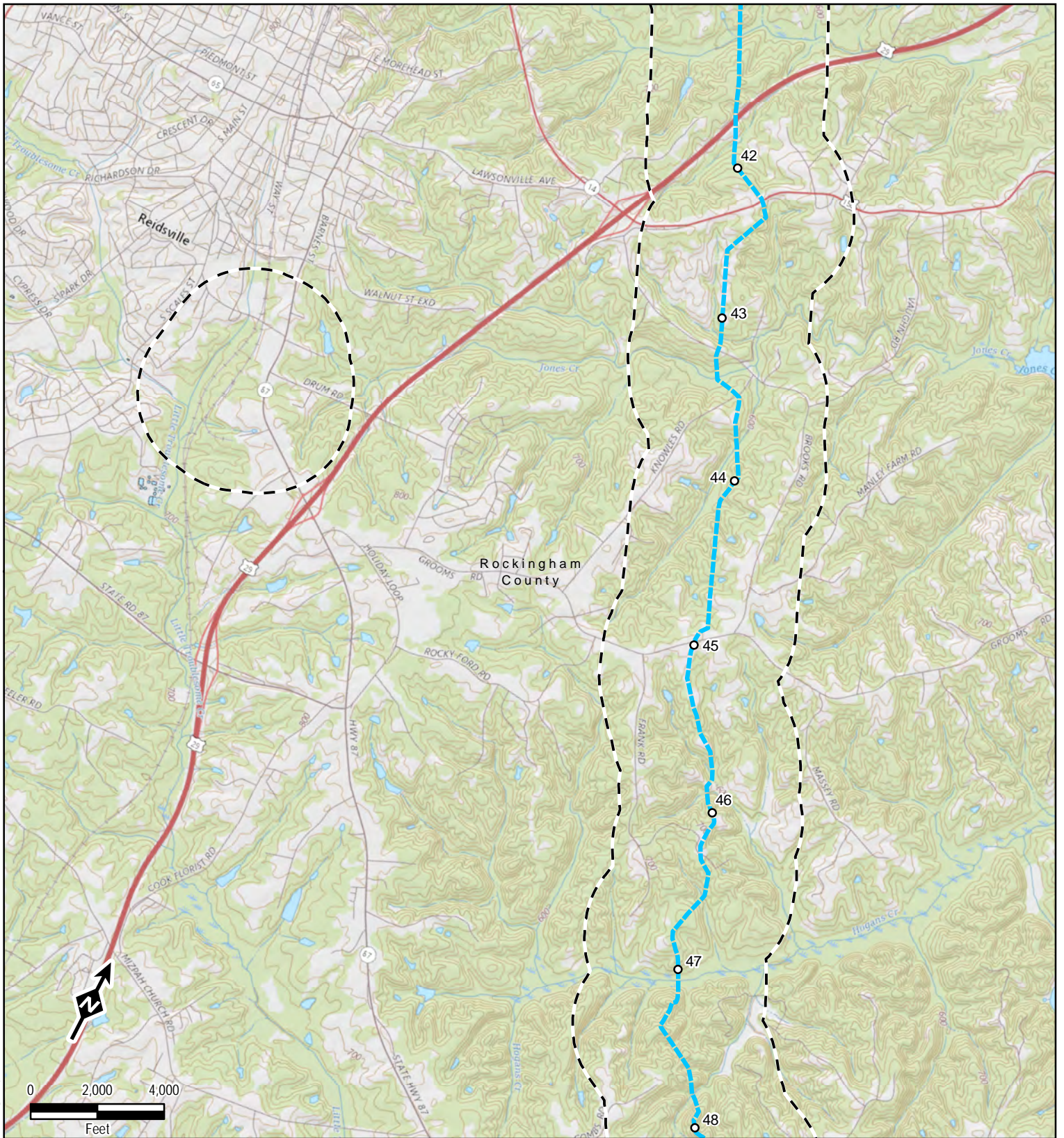
North Carolina Facilities Map

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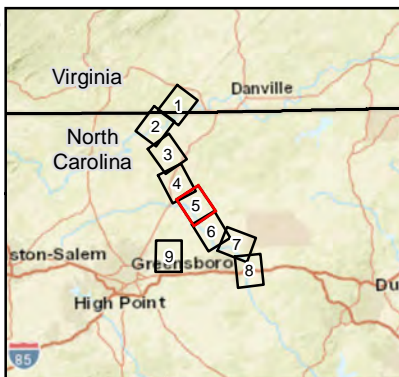
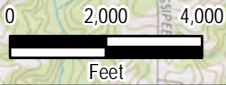
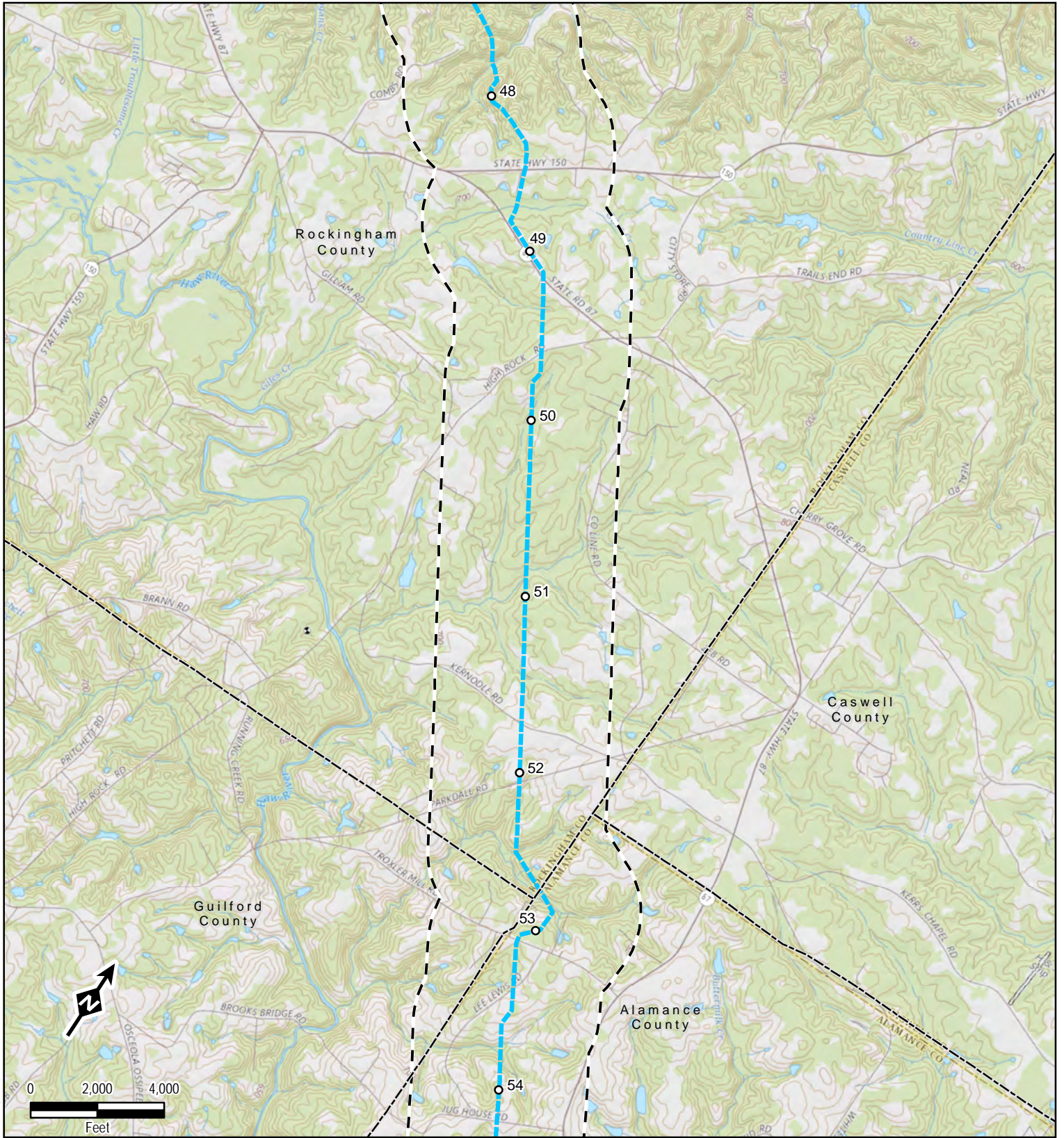
North Carolina Facilities Map

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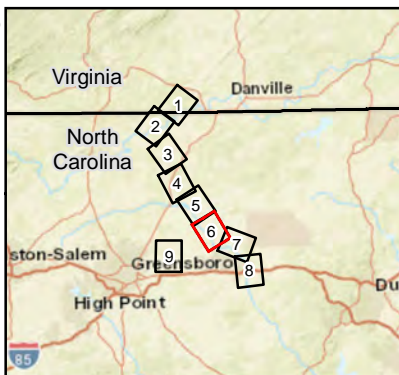
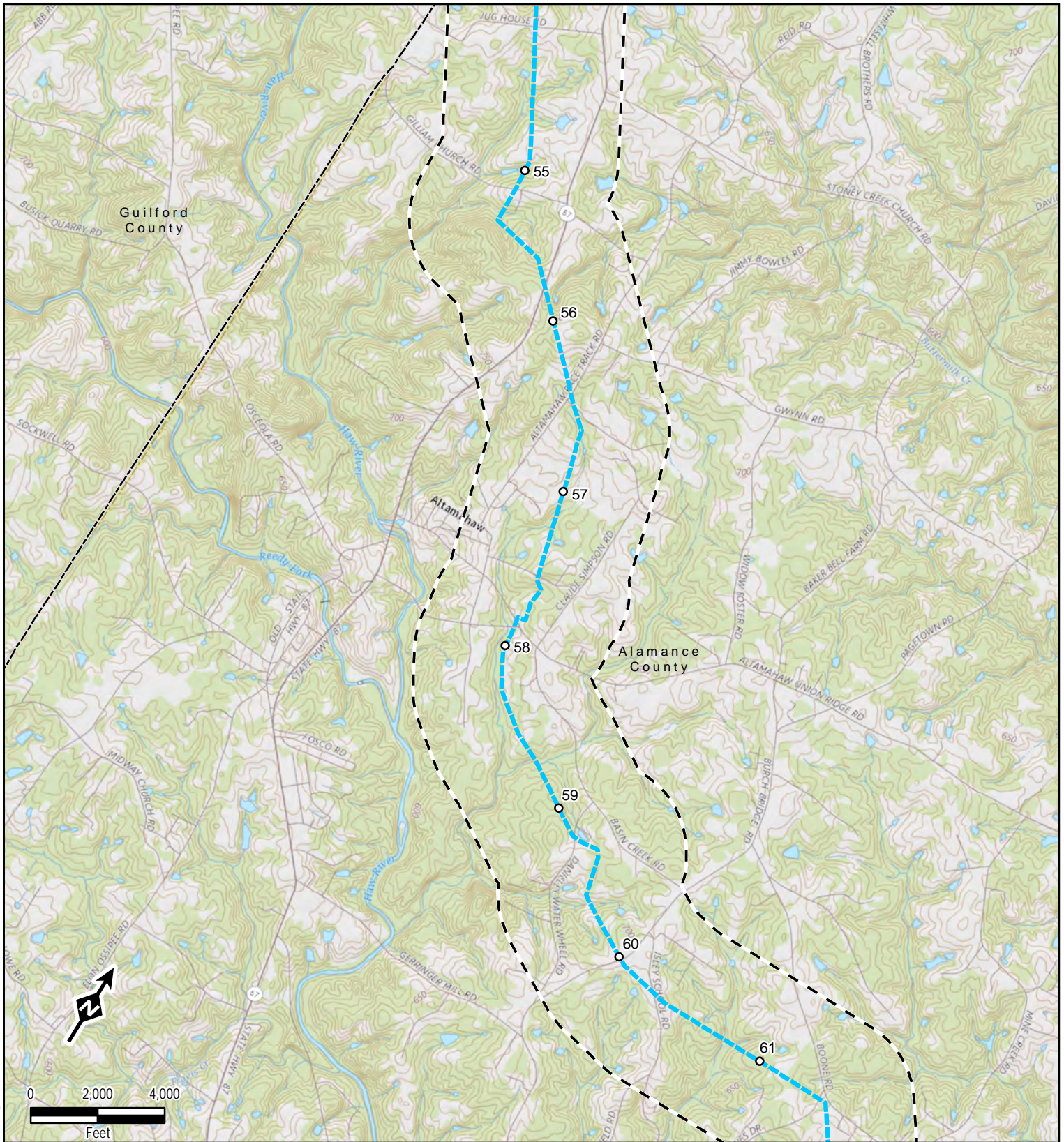
North Carolina Facilities Map

Sheet 5 of 9



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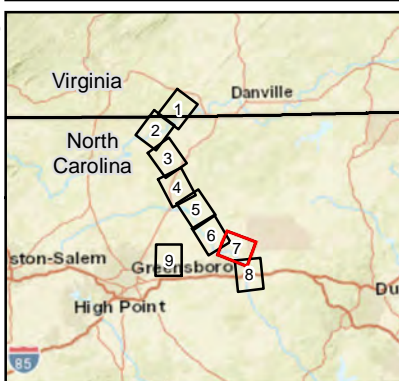
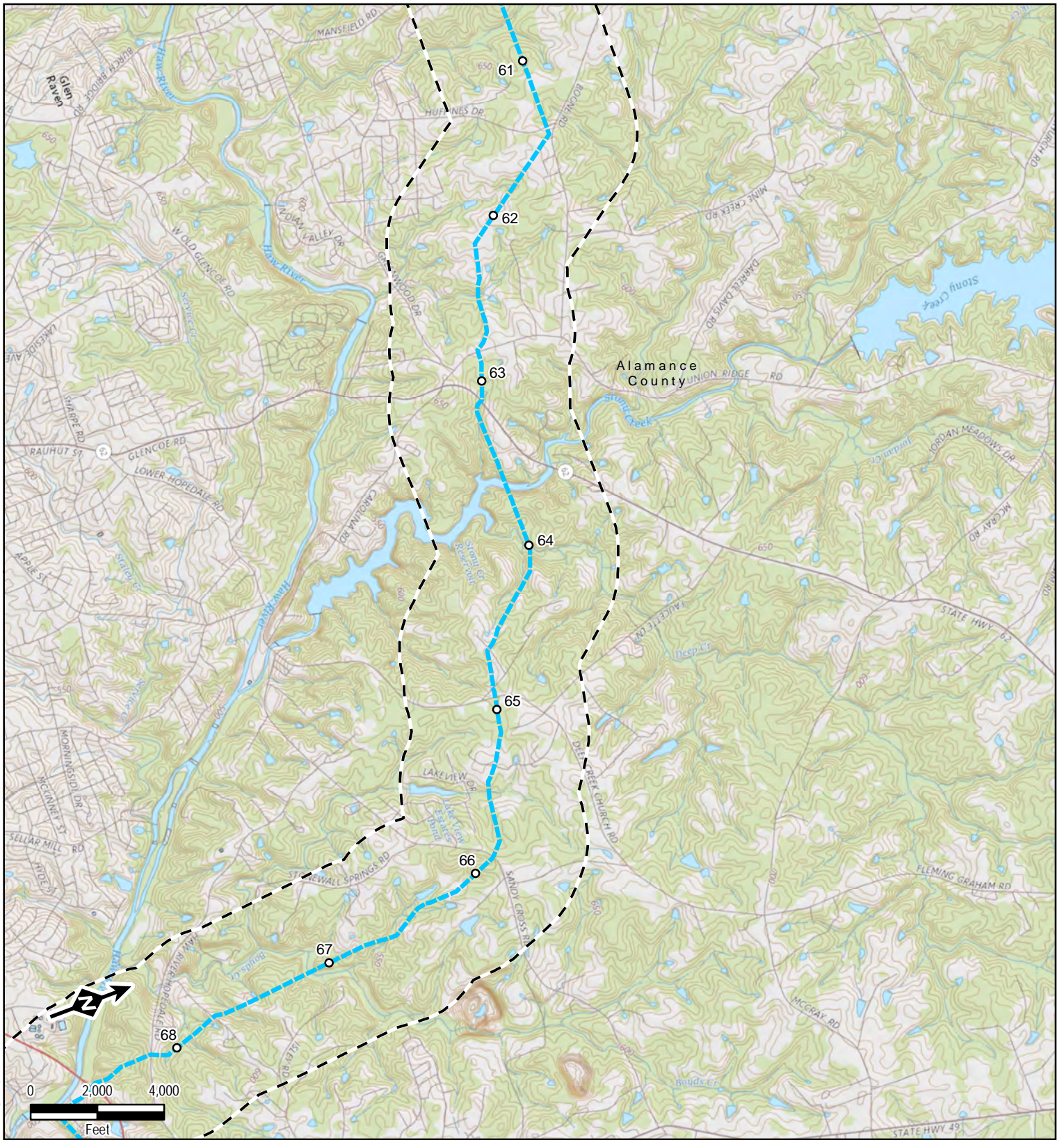
North Carolina Facilities Map

Sheet 6 of 9



600 Willowbrook Ln
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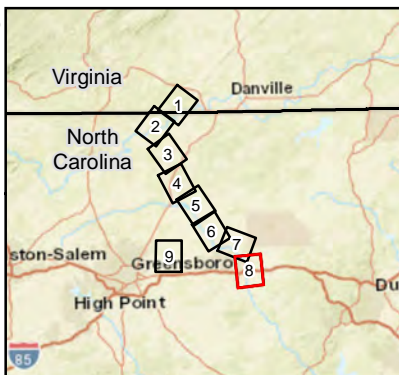
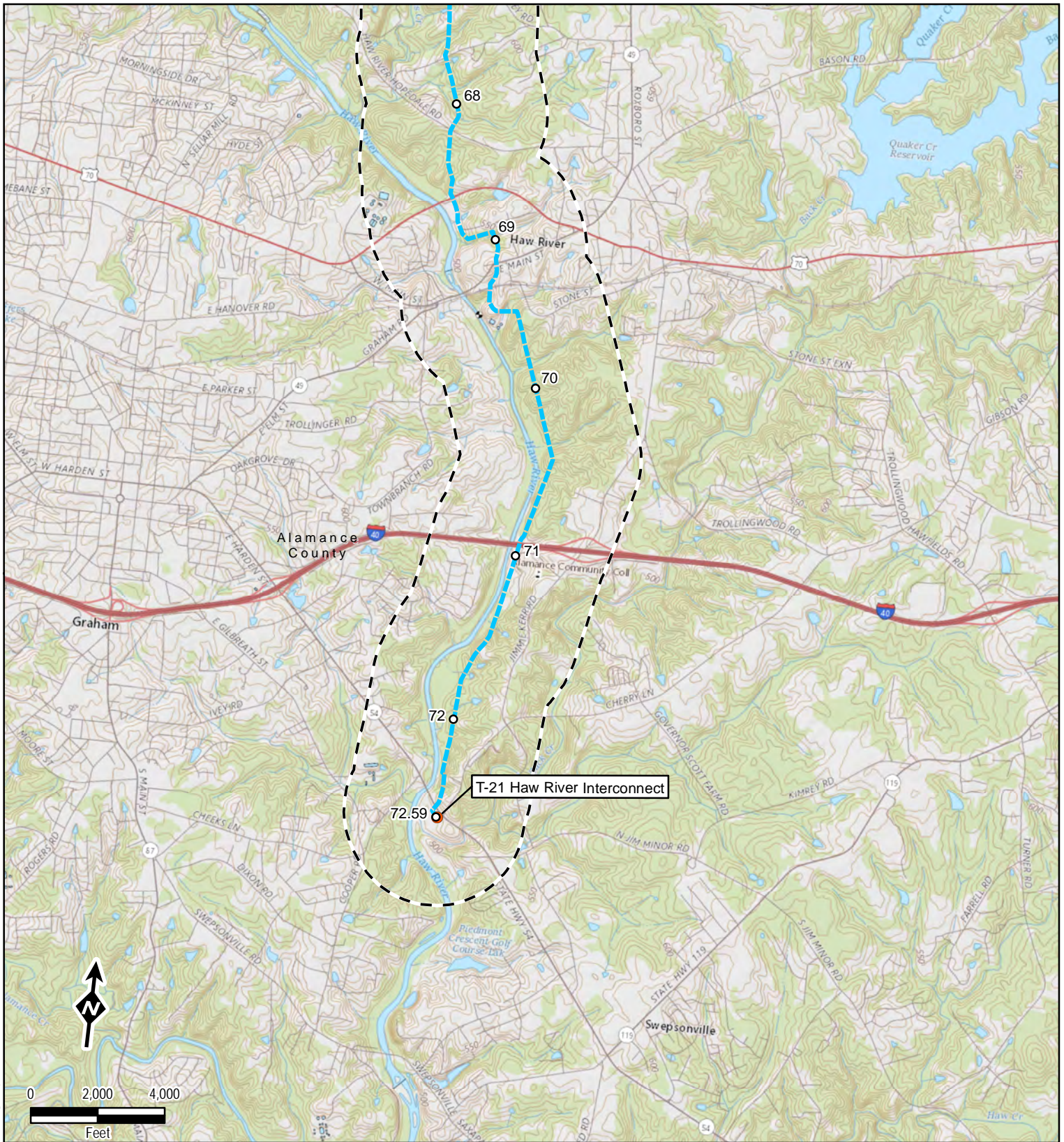
North Carolina Facilities Map

Sheet 7 of 9

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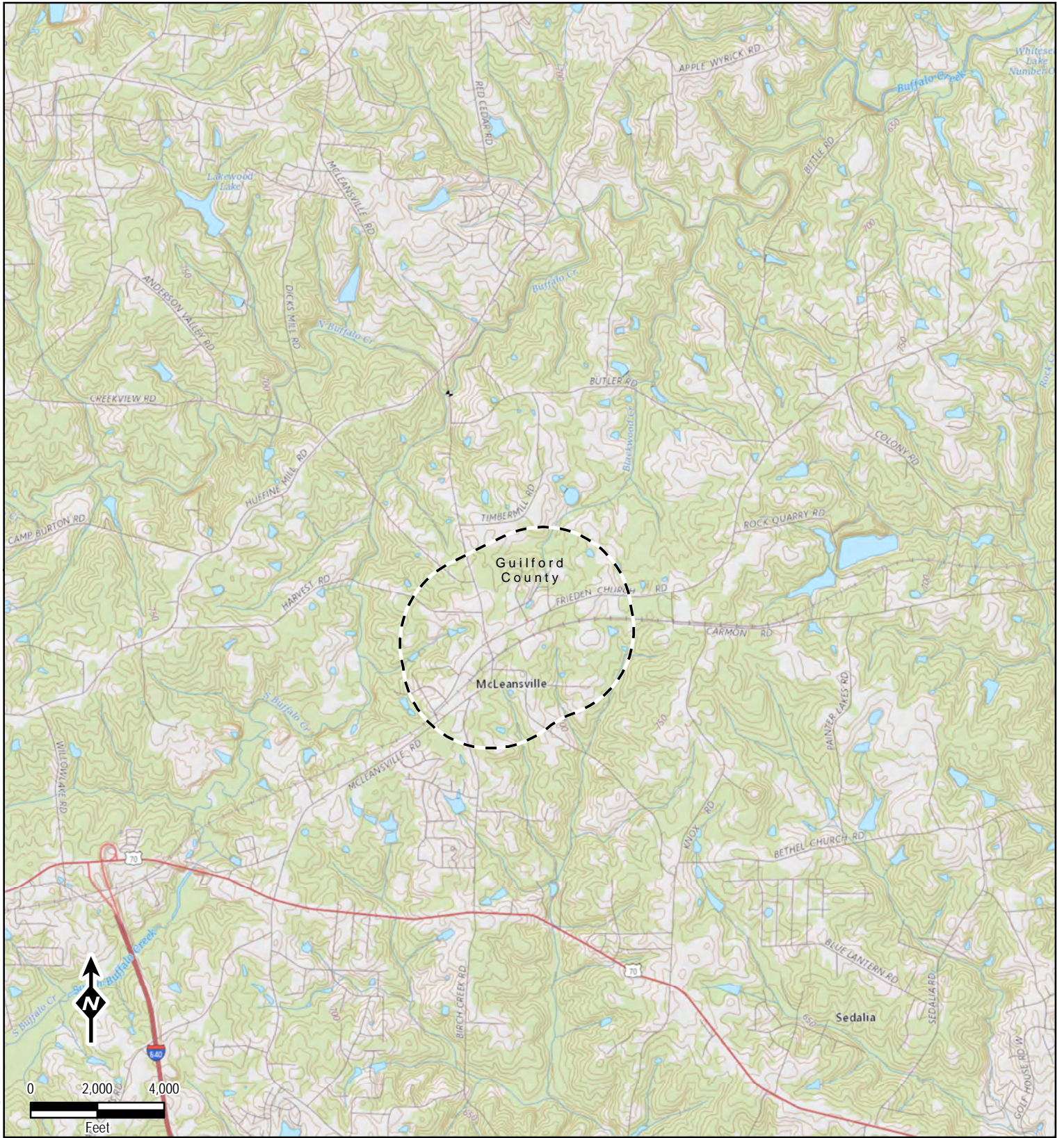
North Carolina Facilities Map

Sheet 8 of 9

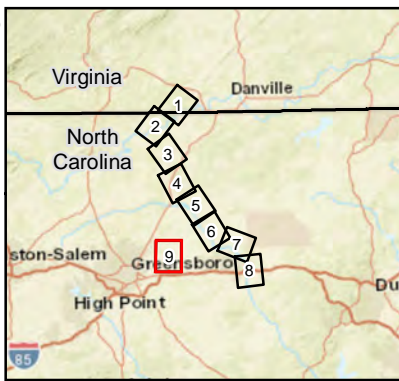
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North Carolina Facilities Map

Sheet 9 of 9



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West Chester, PA 19382



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Ms. Gay Vietzke, Regional Director
U.S. National Park Service
Northeast Region
1234 Market Street
20th Floor
Philadelphia, PA 19107

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Ms. Vietzke:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

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Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

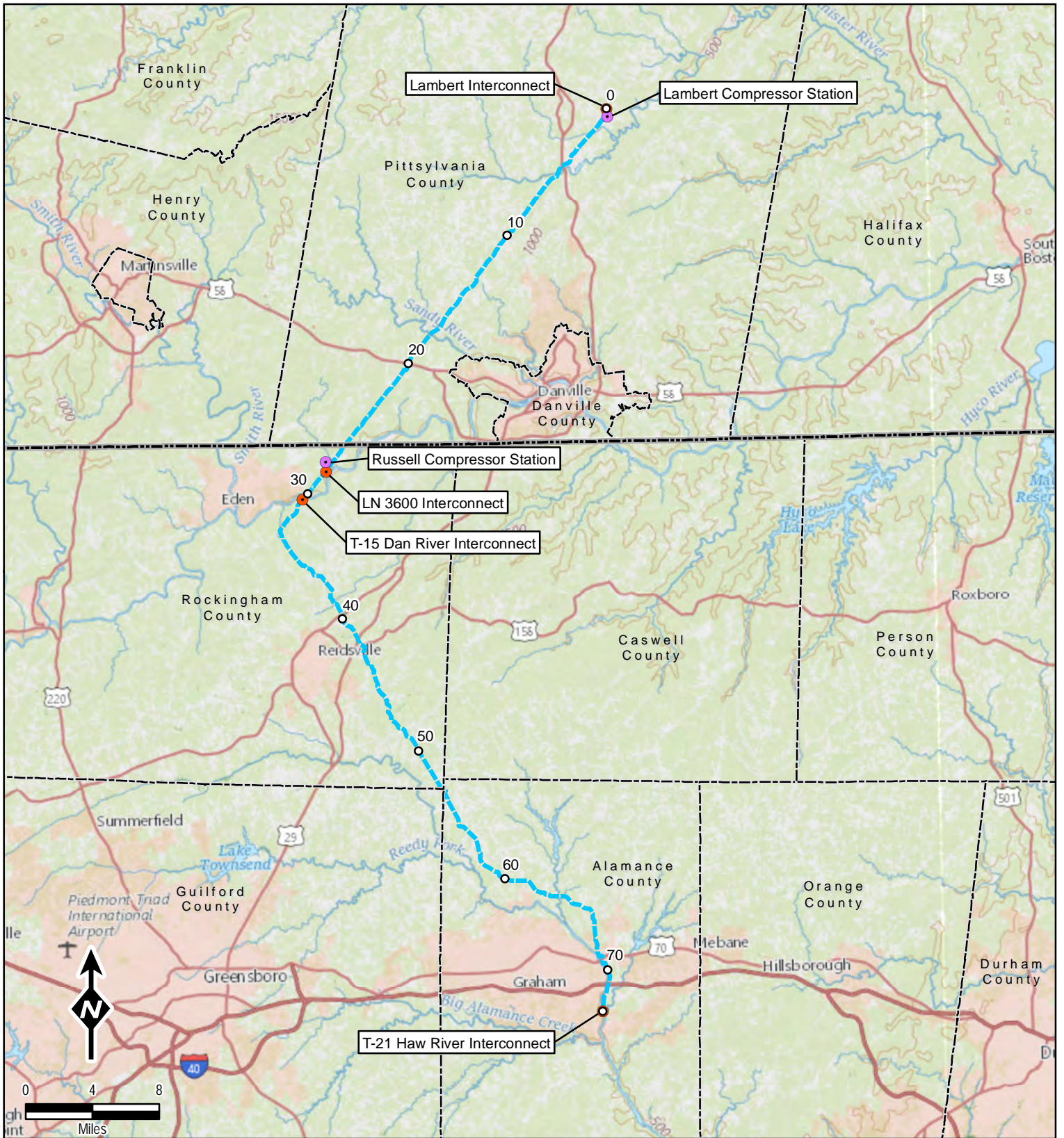
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in Virginia



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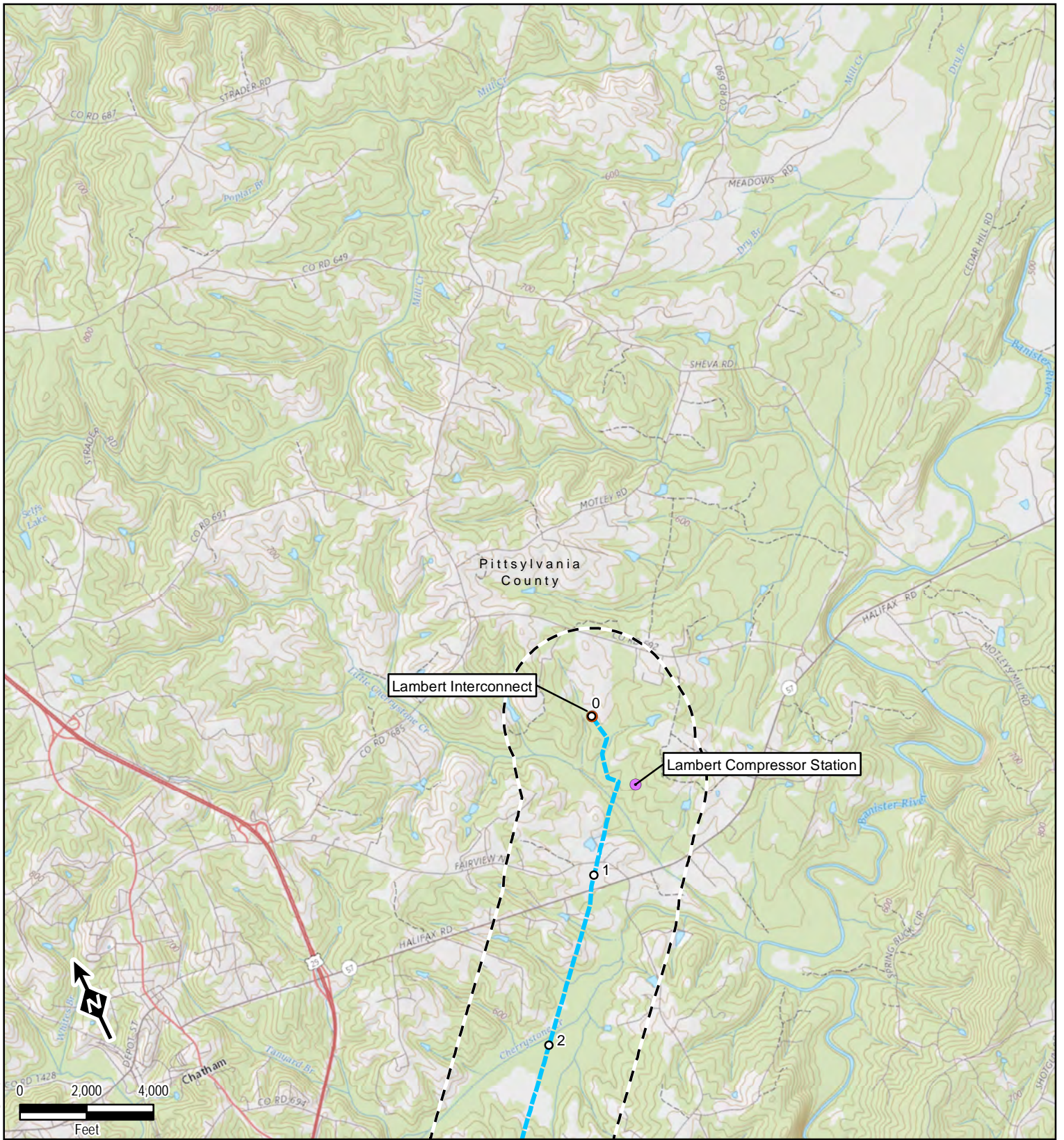
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Mountain Valley
PIPELINE, LLC

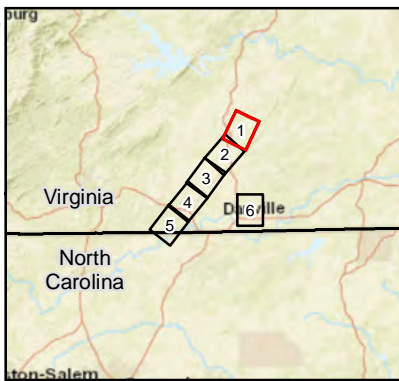
Project Overview
Map

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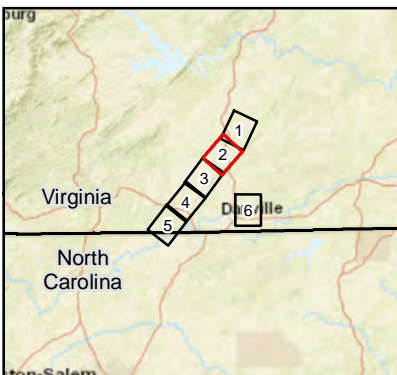
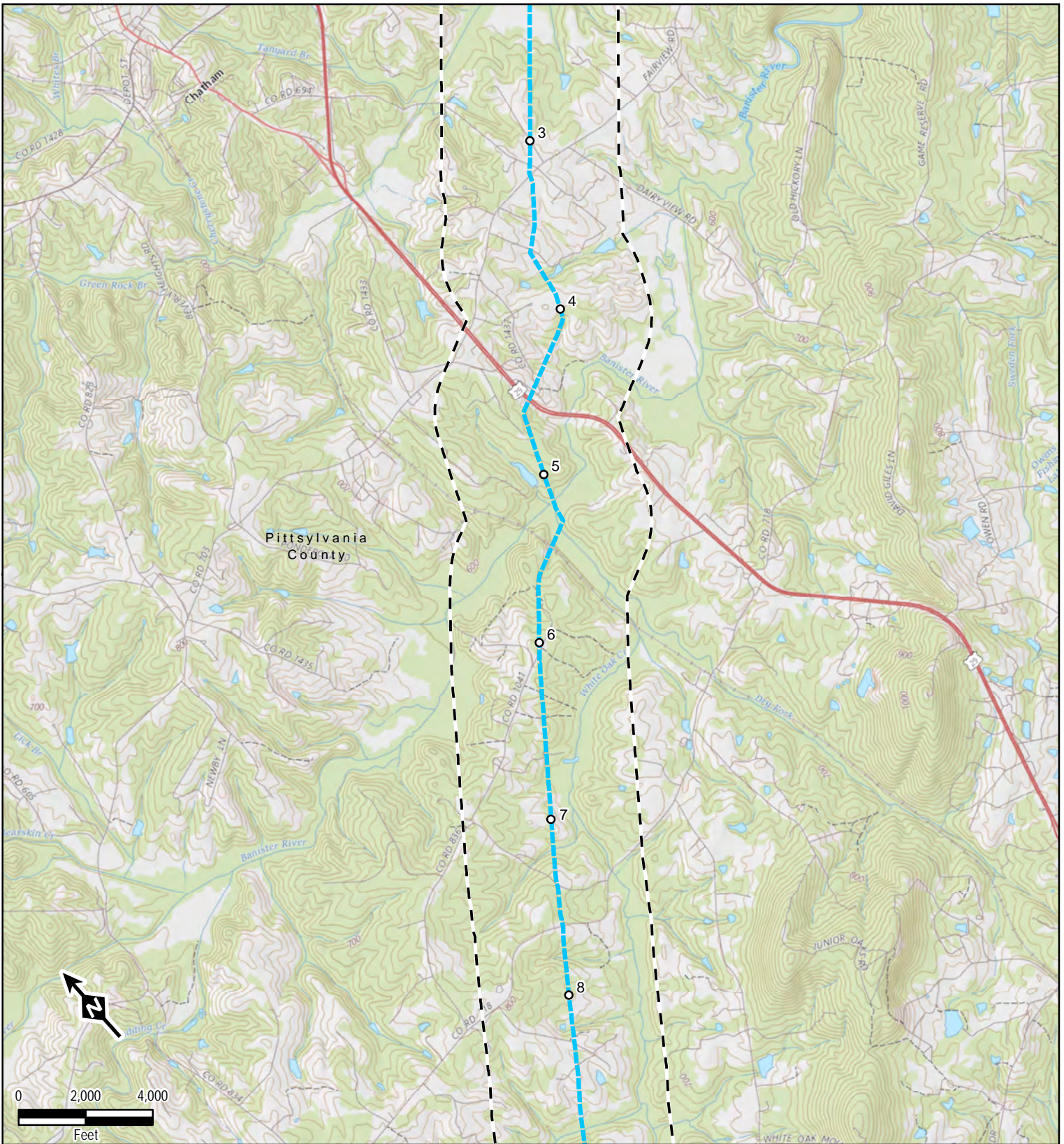
Virginia Facilities Map

Sheet 1 of 6



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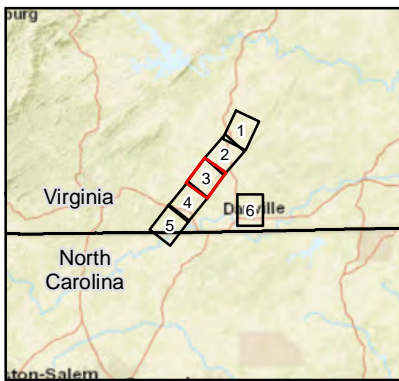
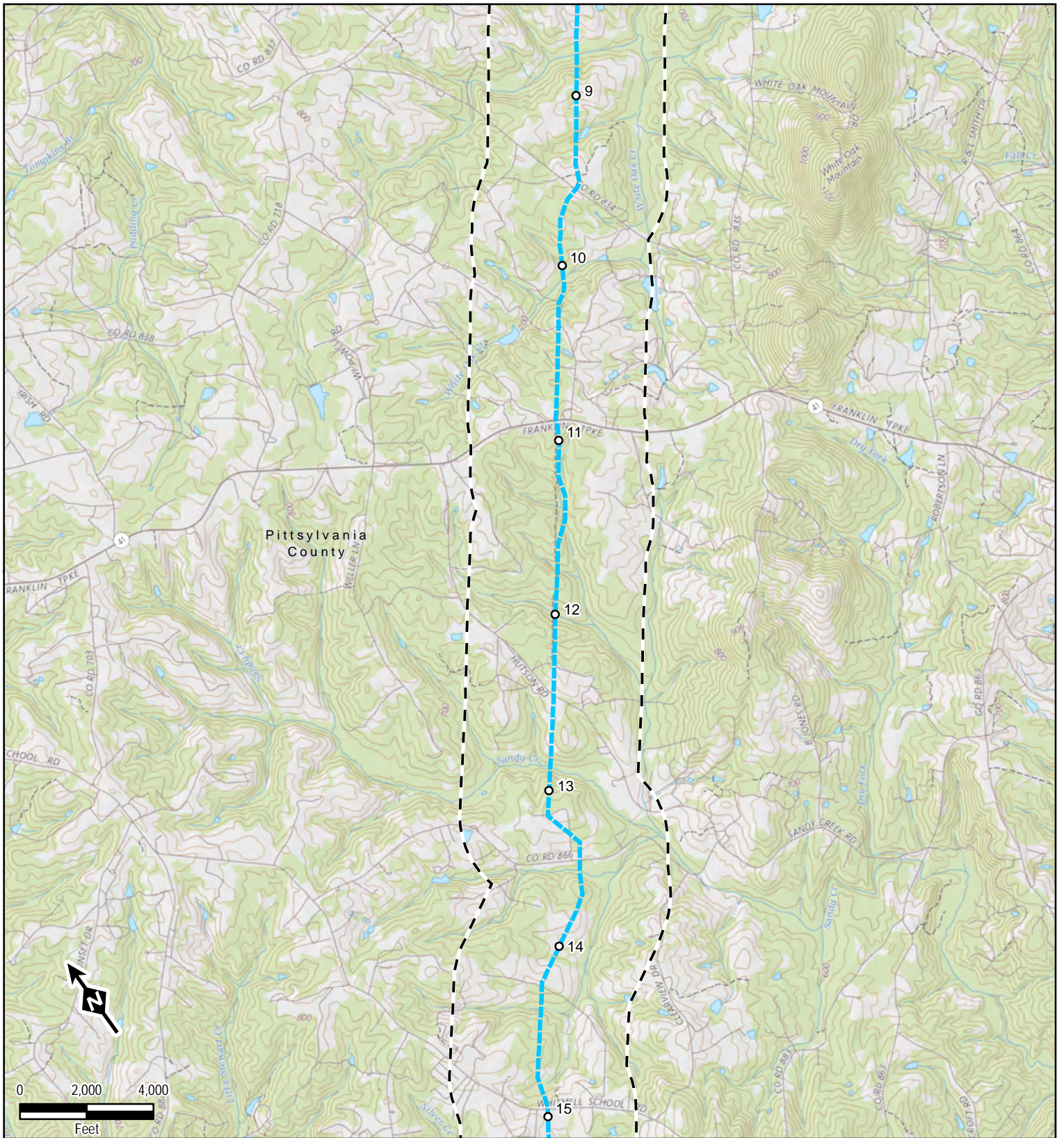
Virginia Facilities Map

Sheet 2 of 6

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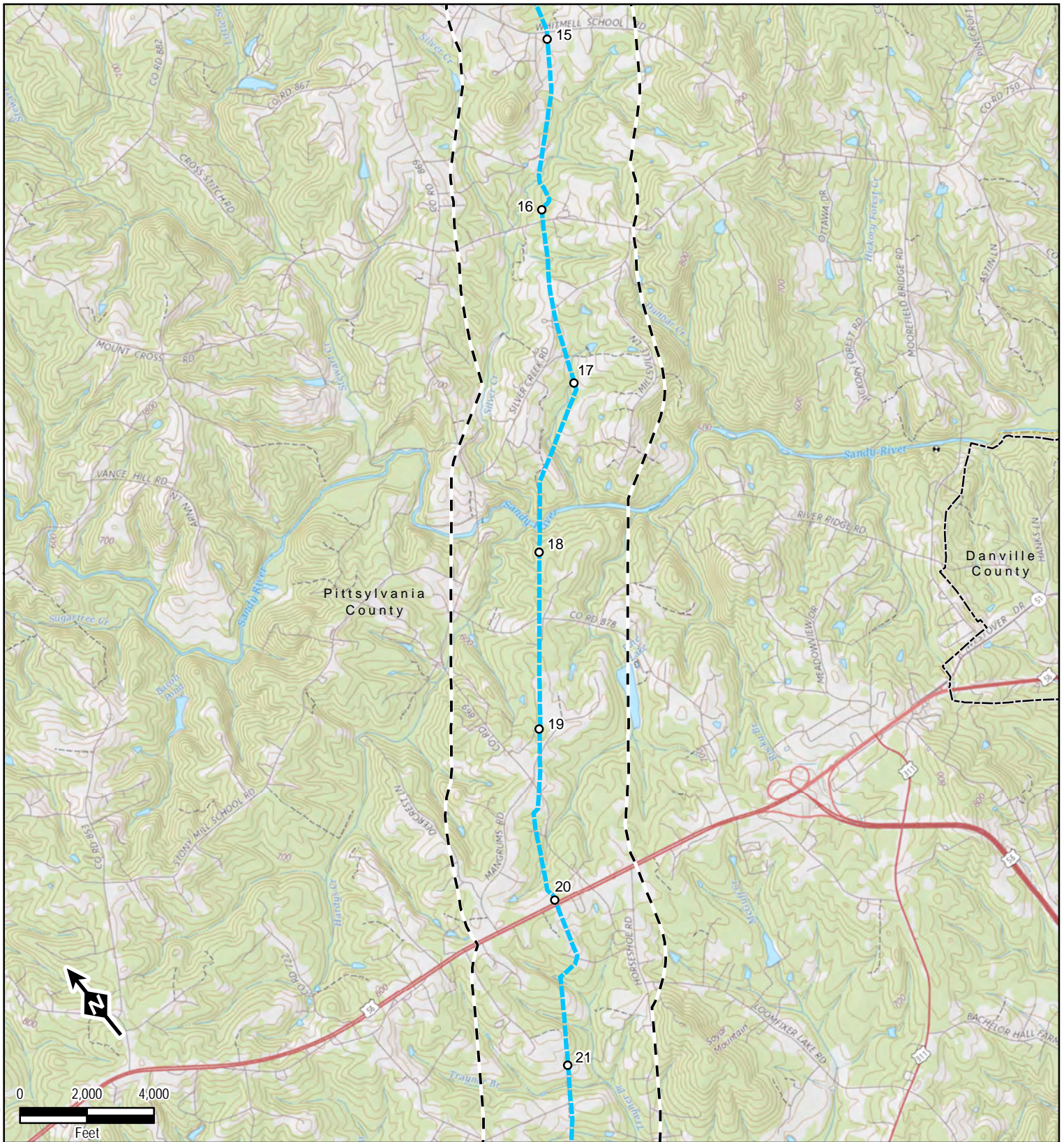


Virginia Facilities Map

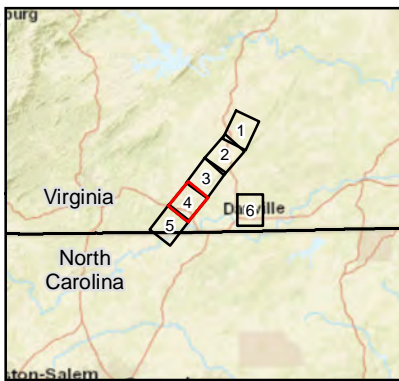
Sheet 3 of 6



600 Willowbrook Ln
West Chester, PA 19382



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Legend

- Mileposts
- Compressor Station
- Meter Station
- Proposed Pipeline Route
- - - Agency Review Corridor
- ▭ County Boundary
- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11

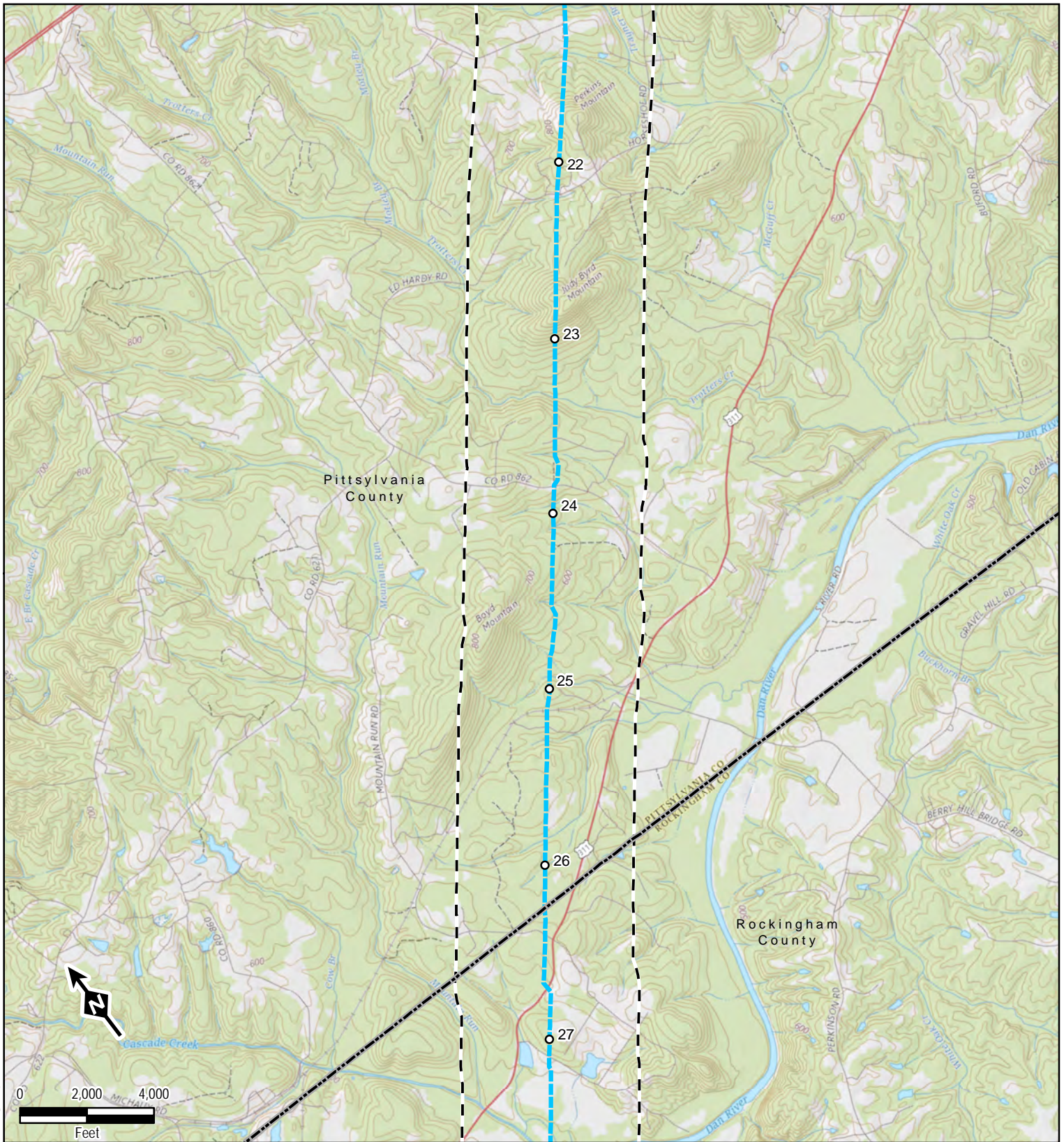


Virginia Facilities Map

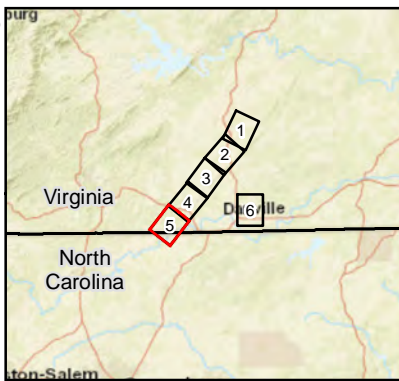
Sheet 4 of 6



600 Willowbrook Ln
West Chester, PA 19382



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Data Sources: ESRI, USGS, TRC, EQT

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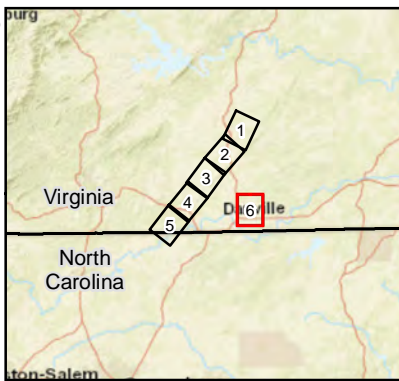
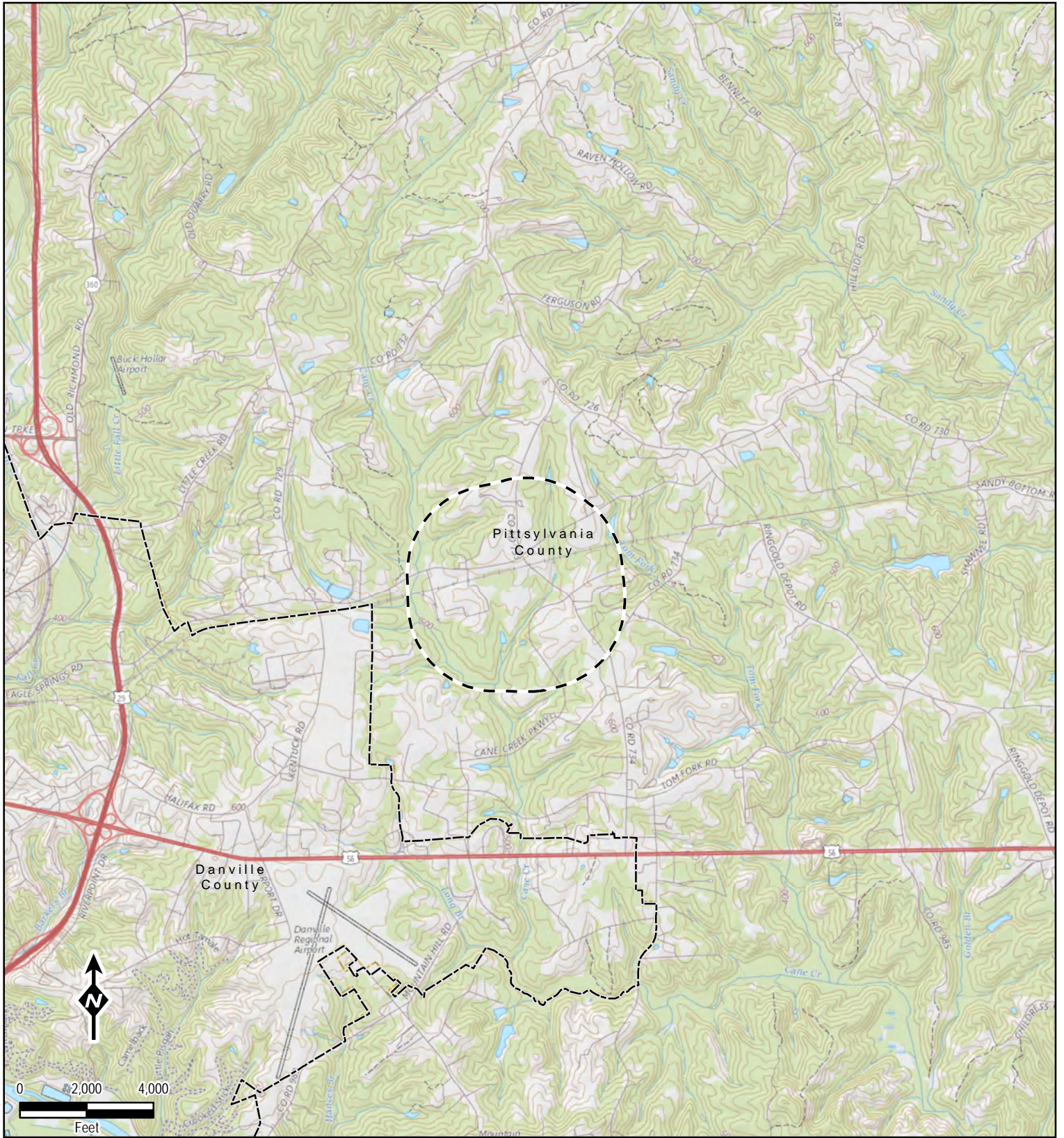


Virginia Facilities Map

Sheet 5 of 6



600 Willowbrook Ln
West Chester, PA 19382



Legend

- Mileposts
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- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11



Virginia Facilities Map

Sheet 6 of 6



600 Willowbrook Ln
West Chester, PA 19382



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Ms. Sarah Craighead, Acting Regional Director
U.S. National Park Service
Southeast Region
100 Alabama Street, SW
1924 Building
Atlanta, GA 30303

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Ms. Craighead:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

On May 3, 2018, Mountain Valley filed a request with the Federal Energy Regulatory Commission (“FERC”) to use the National Environmental Policy Act pre-filing process (“Pre-filing Process”) for the MVP Southgate Project and the FERC issued a Pre-Filing docket number (PF18-4-000) to place information related to the Project into the public record. On May 15, 2018, the FERC granted Mountain Valley’s Pre-Filing request. The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating the project prior to filing a formal application with the FERC. Following the Pre-filing Process, Mountain Valley will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently targeted to be filed in November 2018. All other federal agency applications are planned to be filed in a similar time frame.

In North Carolina, the proposed Project facilities include approximately 26 and 20 miles of 24-inch-diameter natural gas pipeline in Rockingham and Alamance County, respectively. Aboveground facilities in Rockingham County include the Russell Compressor Station in Rockingham County, a pig launcher, two mainline valves, and two meter stations. In Alamance County, the aboveground facilities include a pig receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this attachment also contains USGS quadrangle excerpts of the facilities in North Carolina and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

Mountain Valley is in the process of collecting environmental resource data to evaluate and design the MVP Southgate Project facilities. With this information, TRC respectfully requests your review of the enclosed information to determine if the Project areas will cross or be within 0.50 mile of the following sensitive environmental areas:

- Federal designated wild or scenic rivers
- Lands administered by federal agencies
- Any federal-designated natural, recreational or scenic areas
- Any federal-designated or administered natural landmarks or visually-sensitive areas.

Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

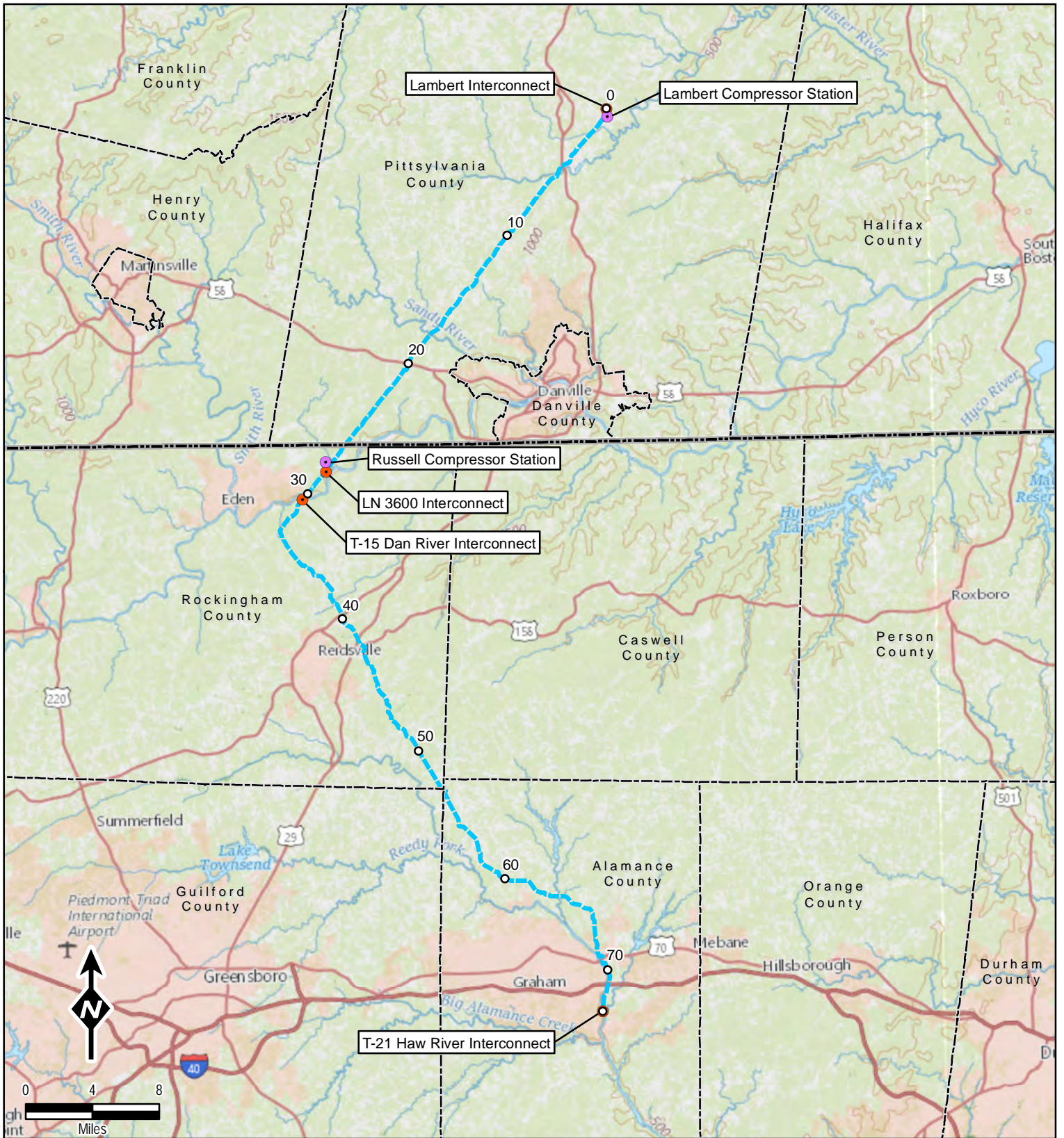
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in North Carolina



Legend

- Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

Mountain Valley
PIPELINE, LLC

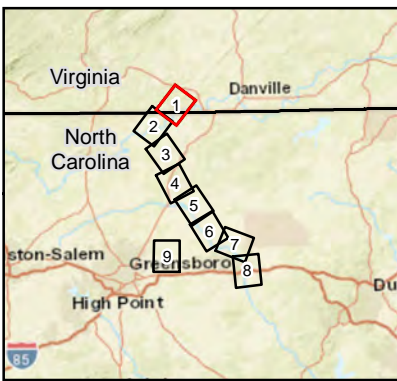
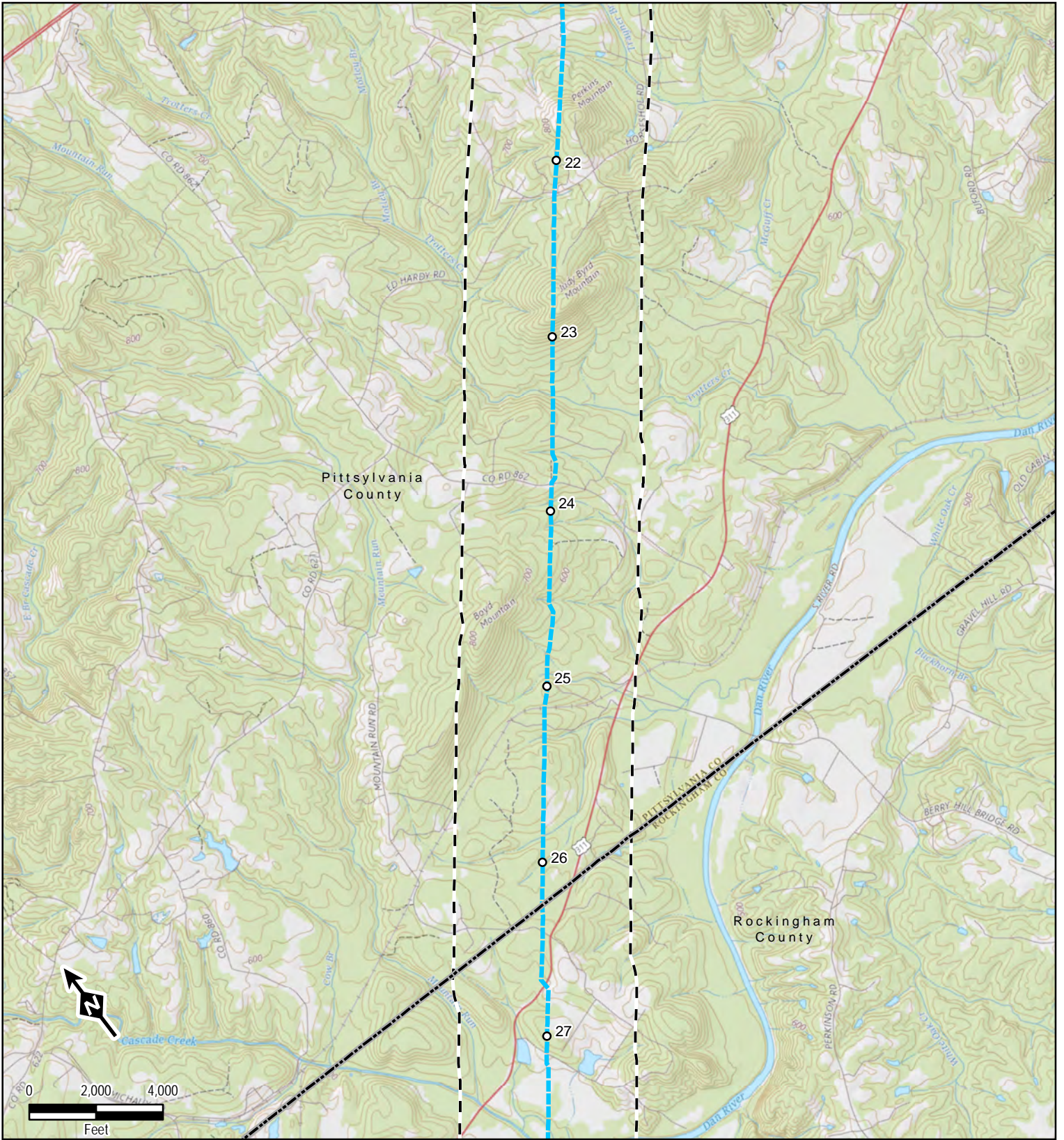
Project Overview
Map

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

- Mileposts
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- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11

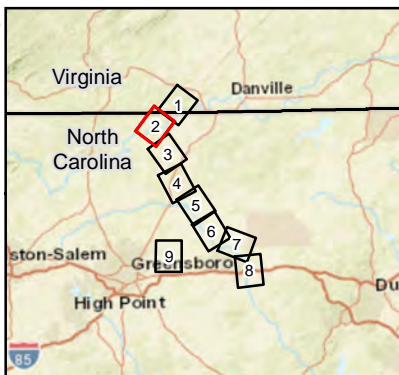
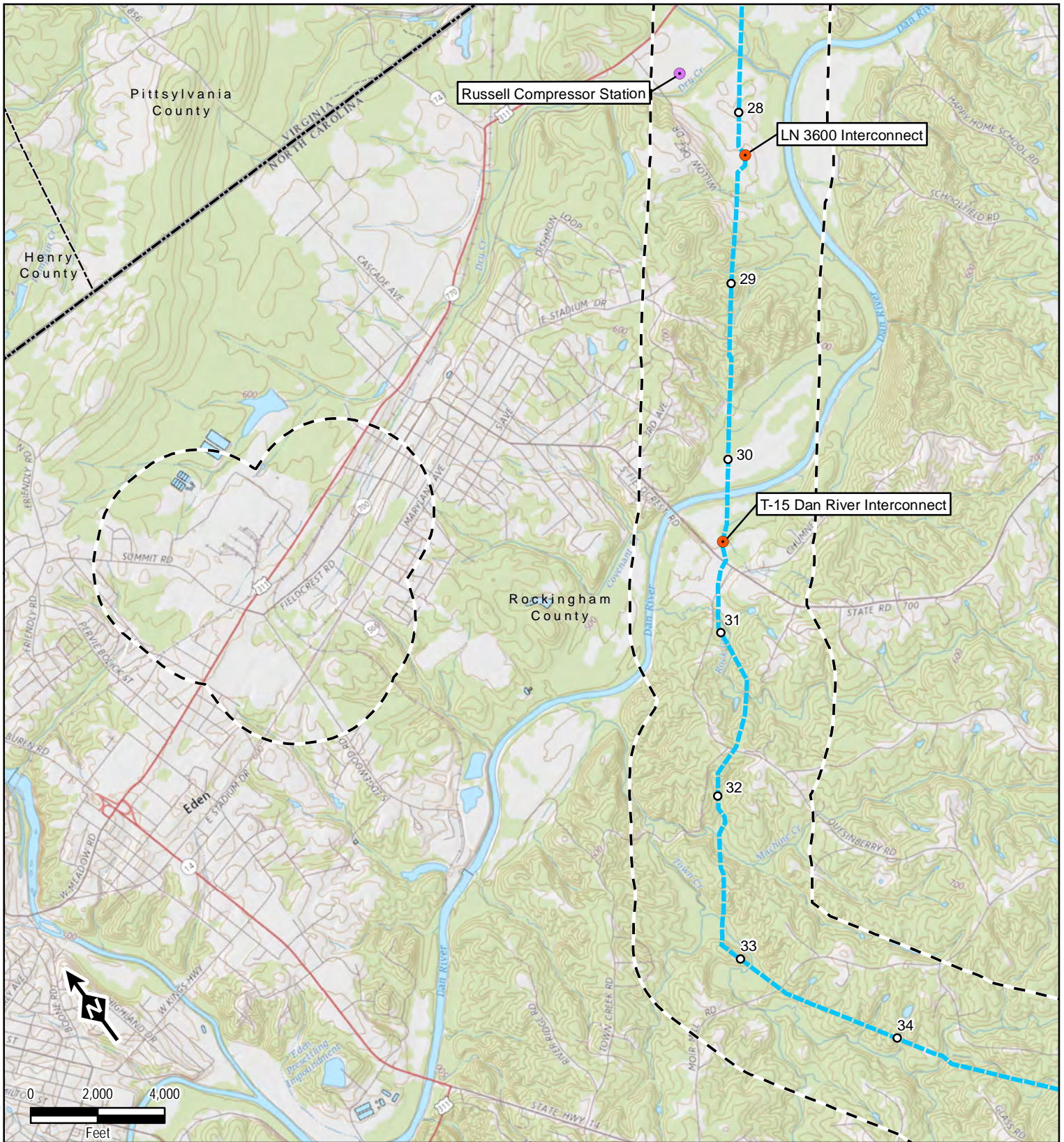


North Carolina Facilities Map

Sheet 1 of 9



600 Willowbrook Ln
West Chester, PA 19382



Legend

- Mileposts
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Data Sources: ESRI, USGS, TRC, EQT

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Mountain Valley PIPELINE LLC

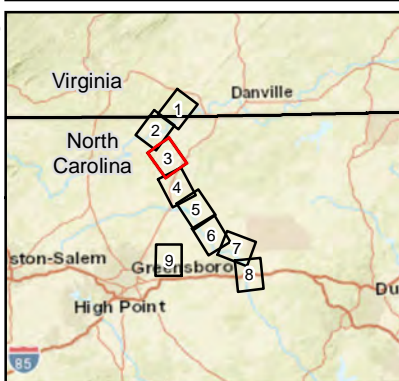
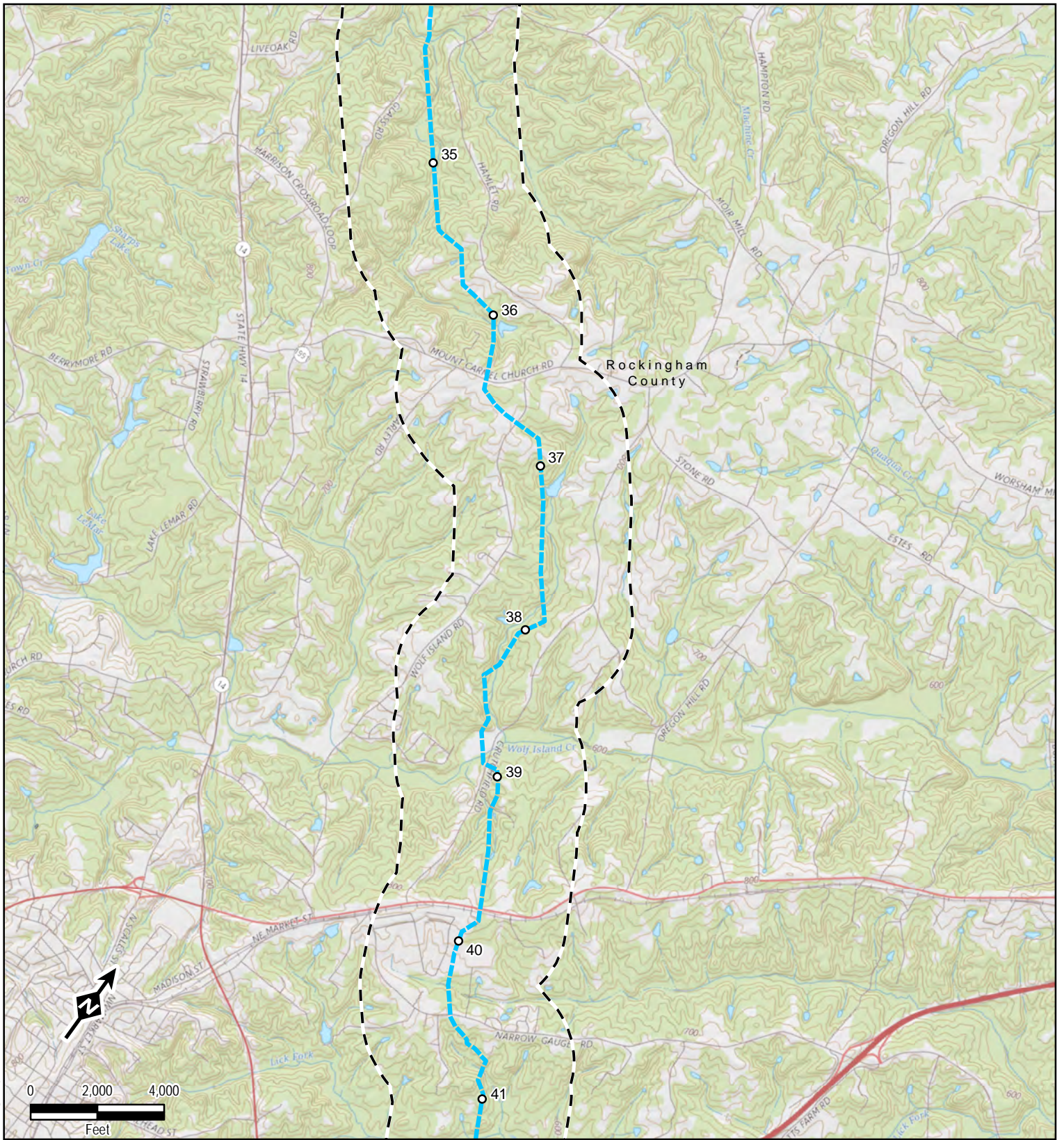
North Carolina Facilities Map

Sheet 2 of 9

TRC
Results you can rely on

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Legend

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Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
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Mountain Valley PIPELINE LLC

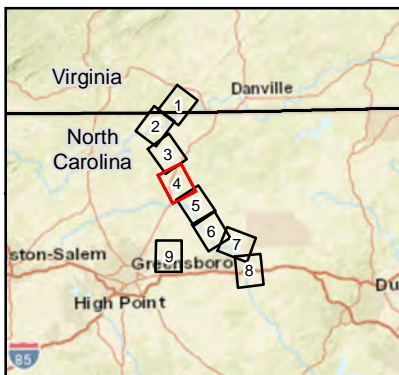
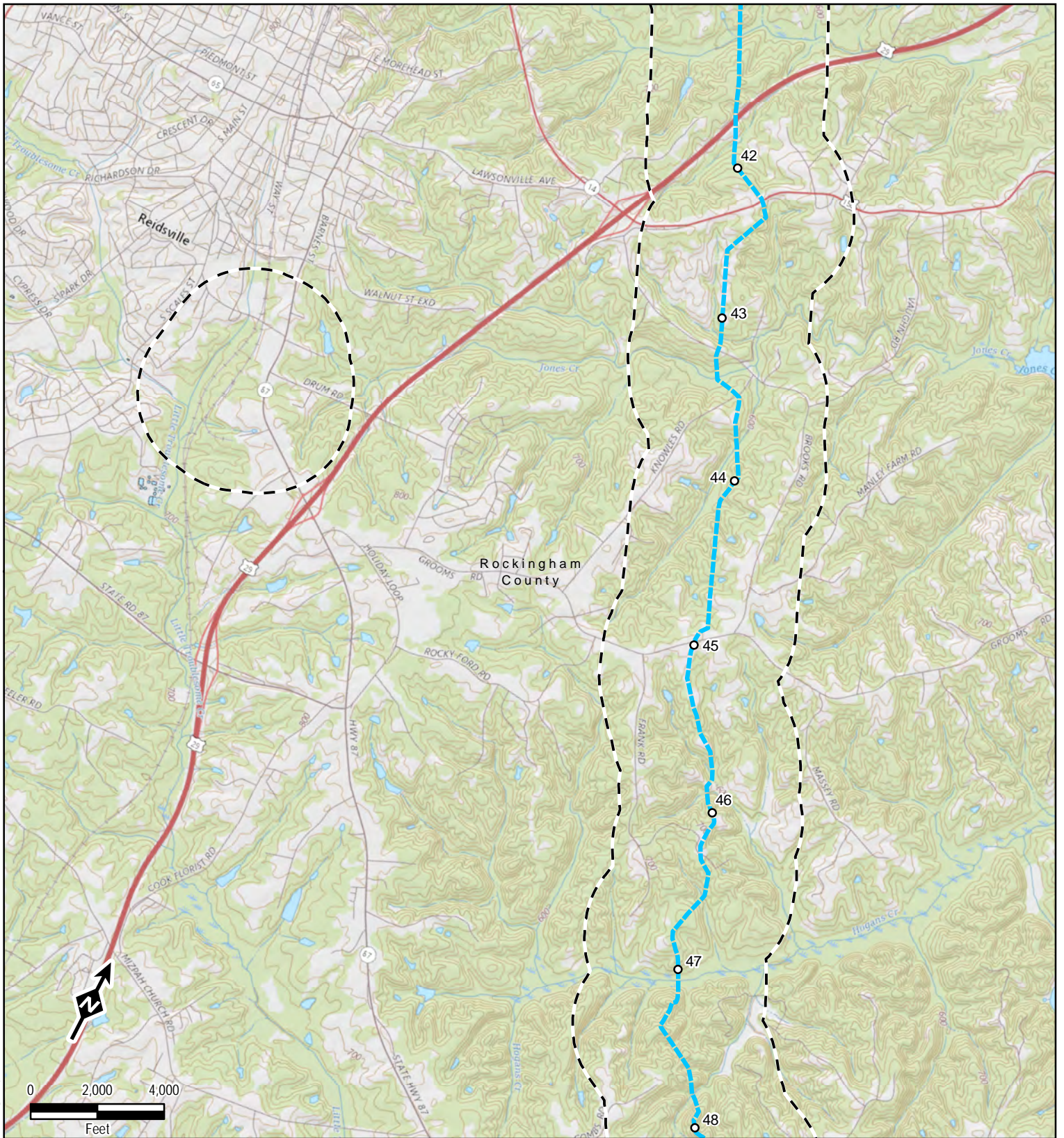
North Carolina Facilities Map

Sheet 3 of 9

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

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Mountain Valley PIPELINE LLC

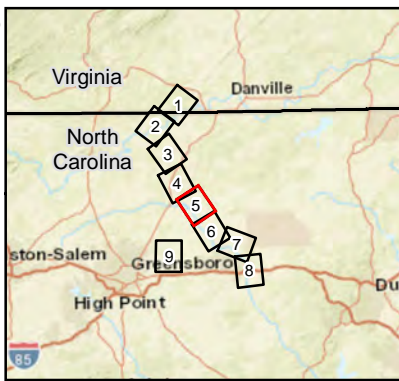
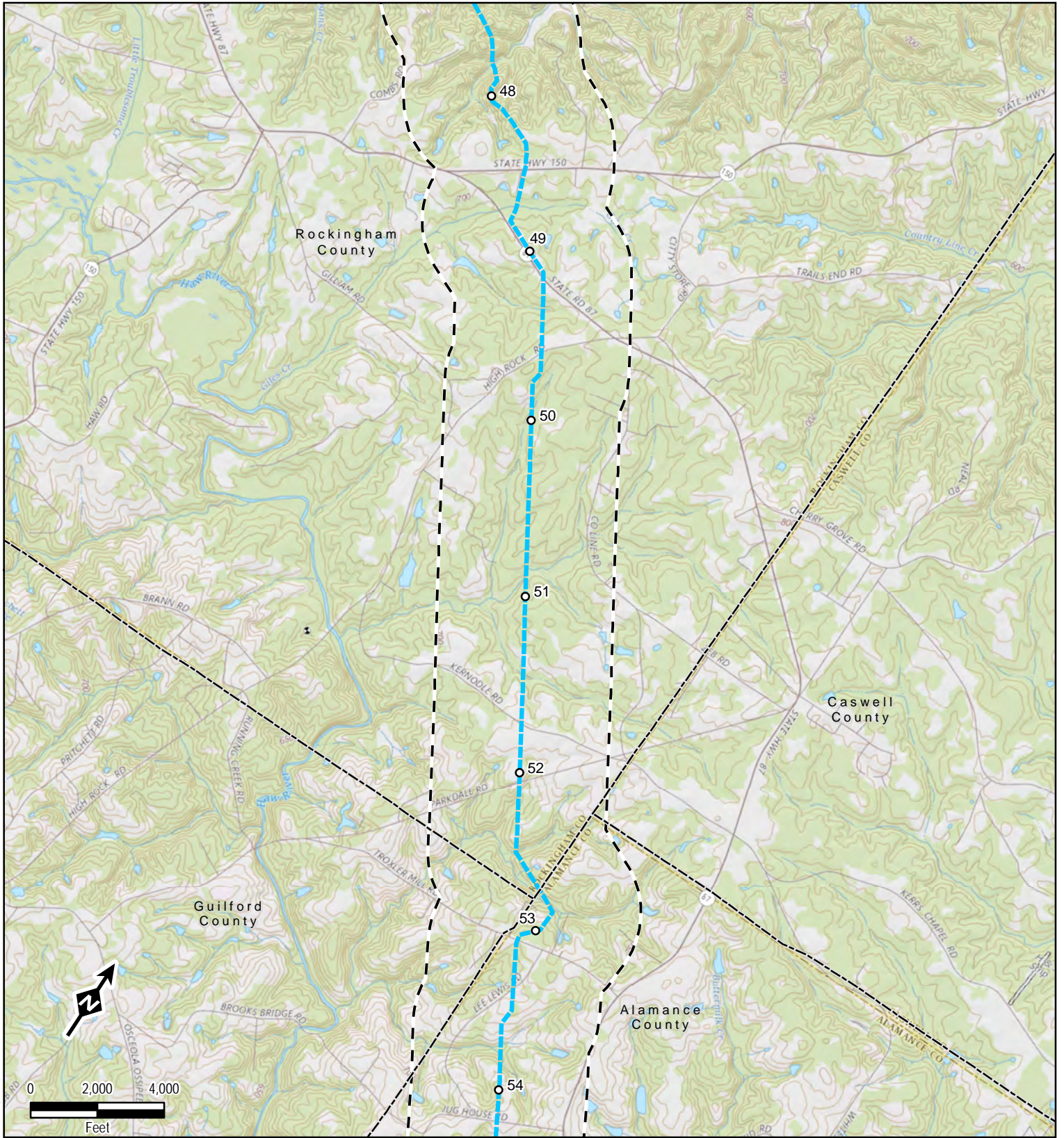
North Carolina Facilities Map

Sheet 4 of 9

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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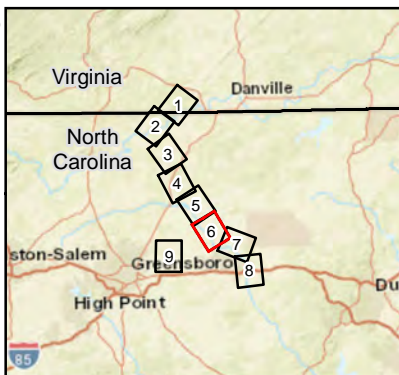
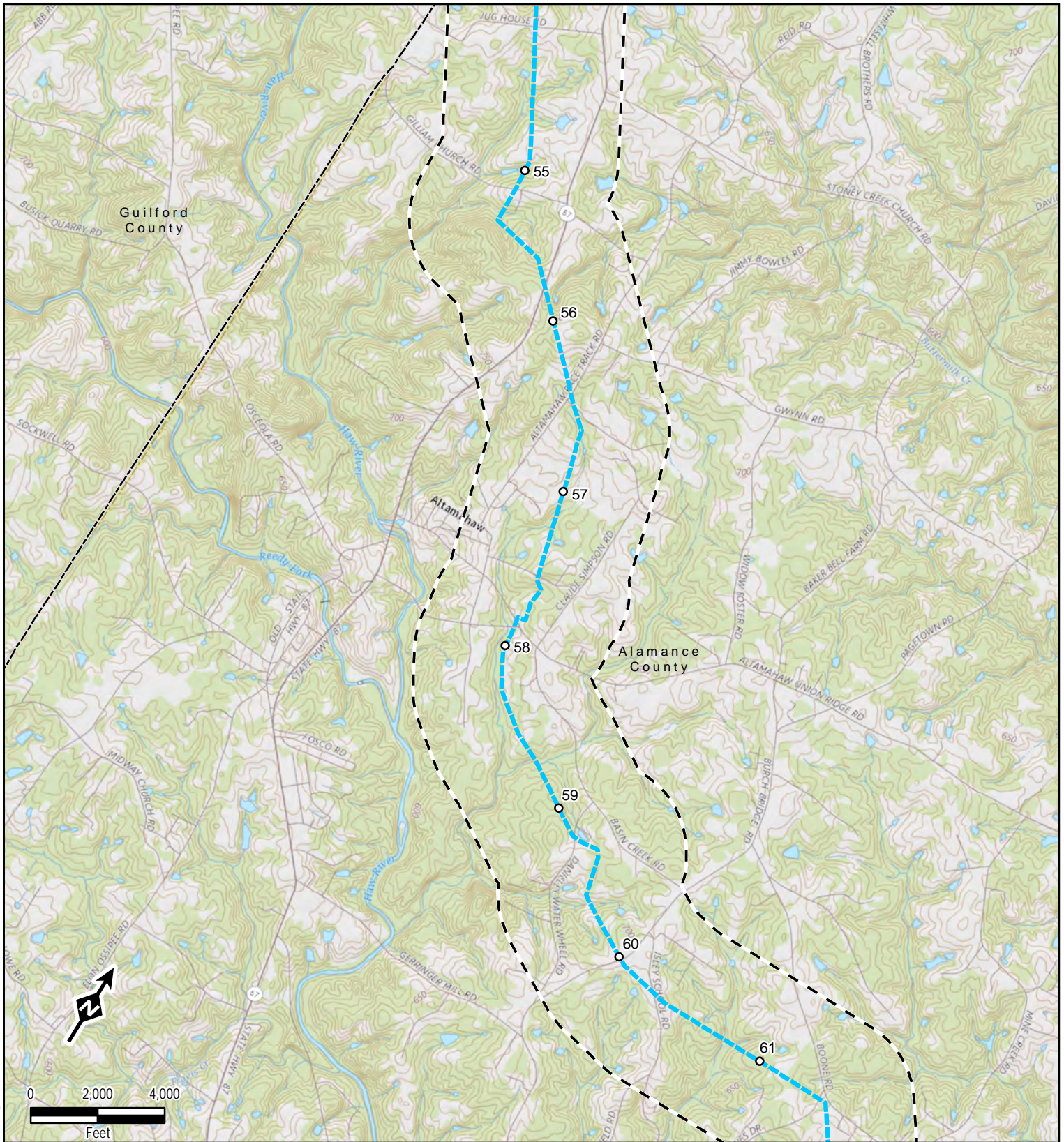
North Carolina Facilities Map

Sheet 5 of 9



600 Willowbrook Ln
West Chester, PA 19382

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Legend

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Data Sources: ESRI, USGS, TRC, EQT

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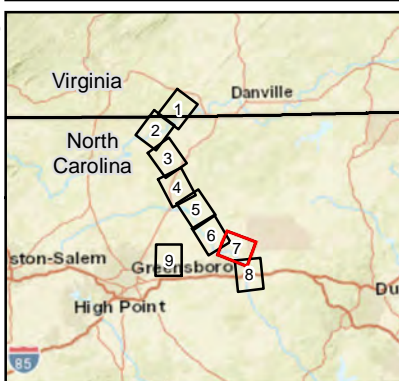
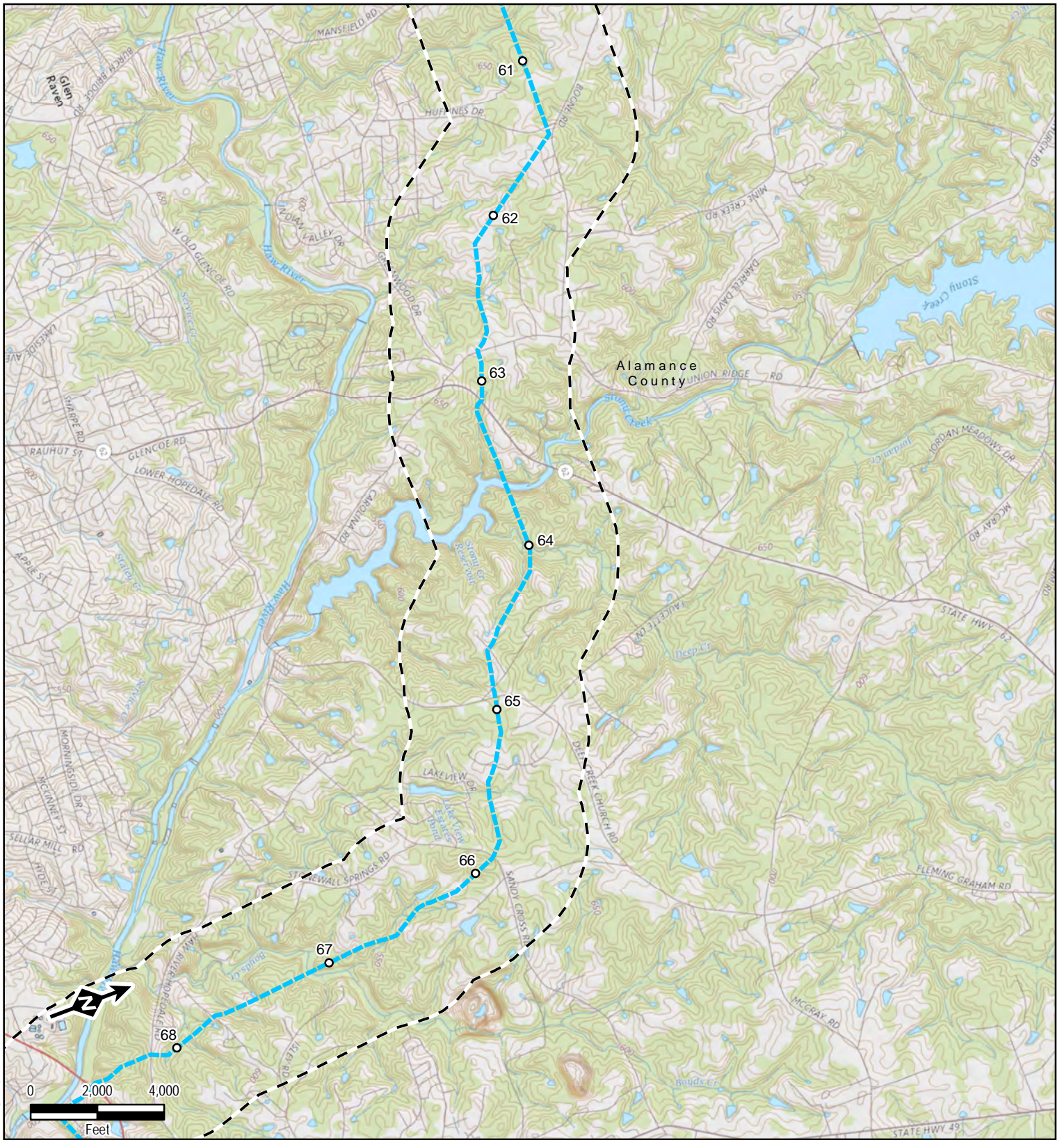
North Carolina Facilities Map

Sheet 6 of 9



600 Willowbrook Ln
West Chester, PA 19382

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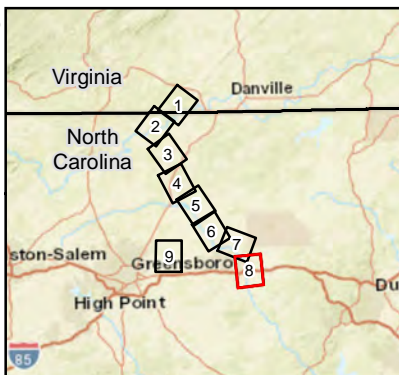
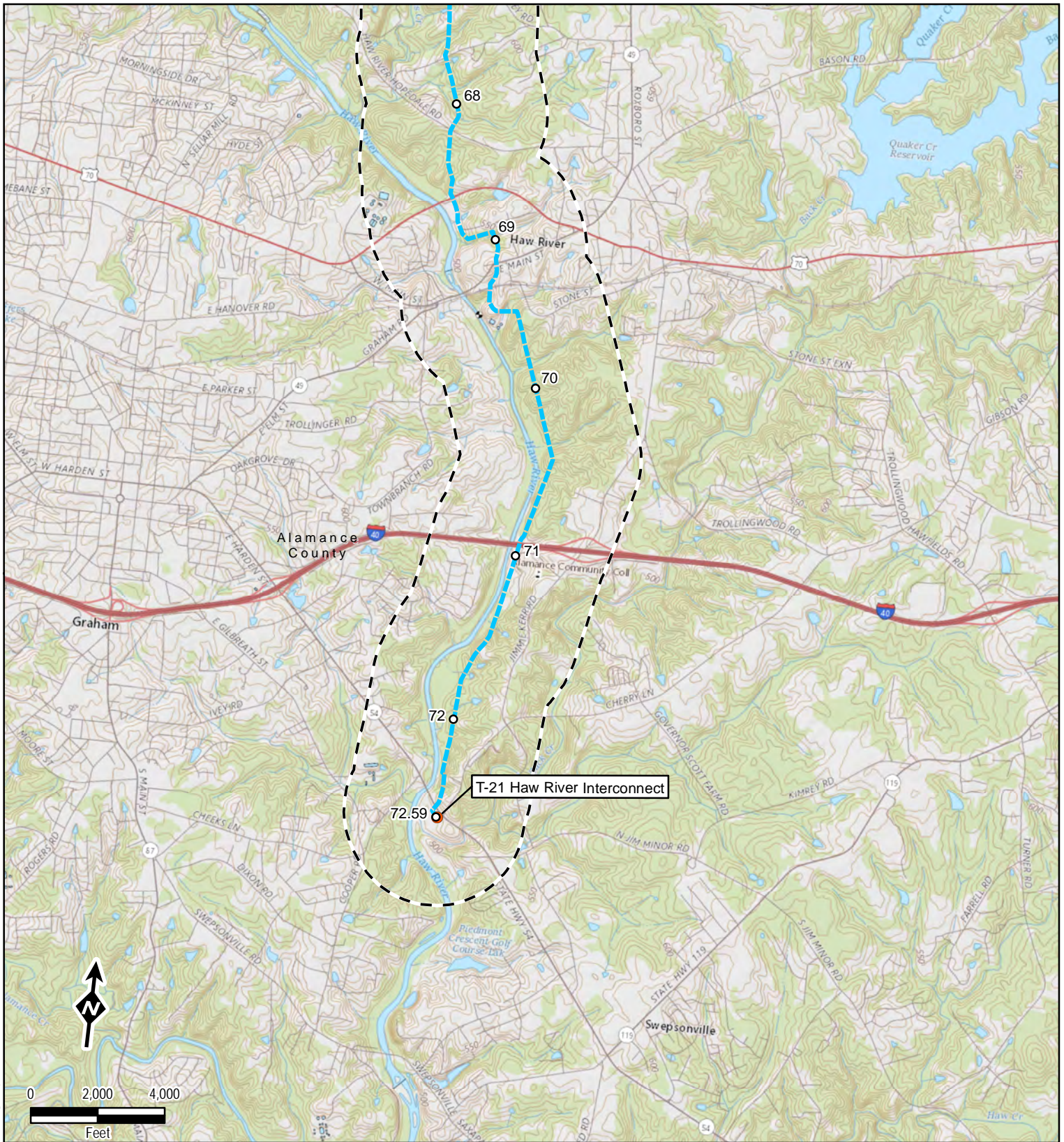
North Carolina Facilities Map

Sheet 7 of 9



600 Willowbrook Ln
West Chester, PA 19382

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Legend

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- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

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When Printed 8.5x11

Mountain Valley PIPELINE LLC

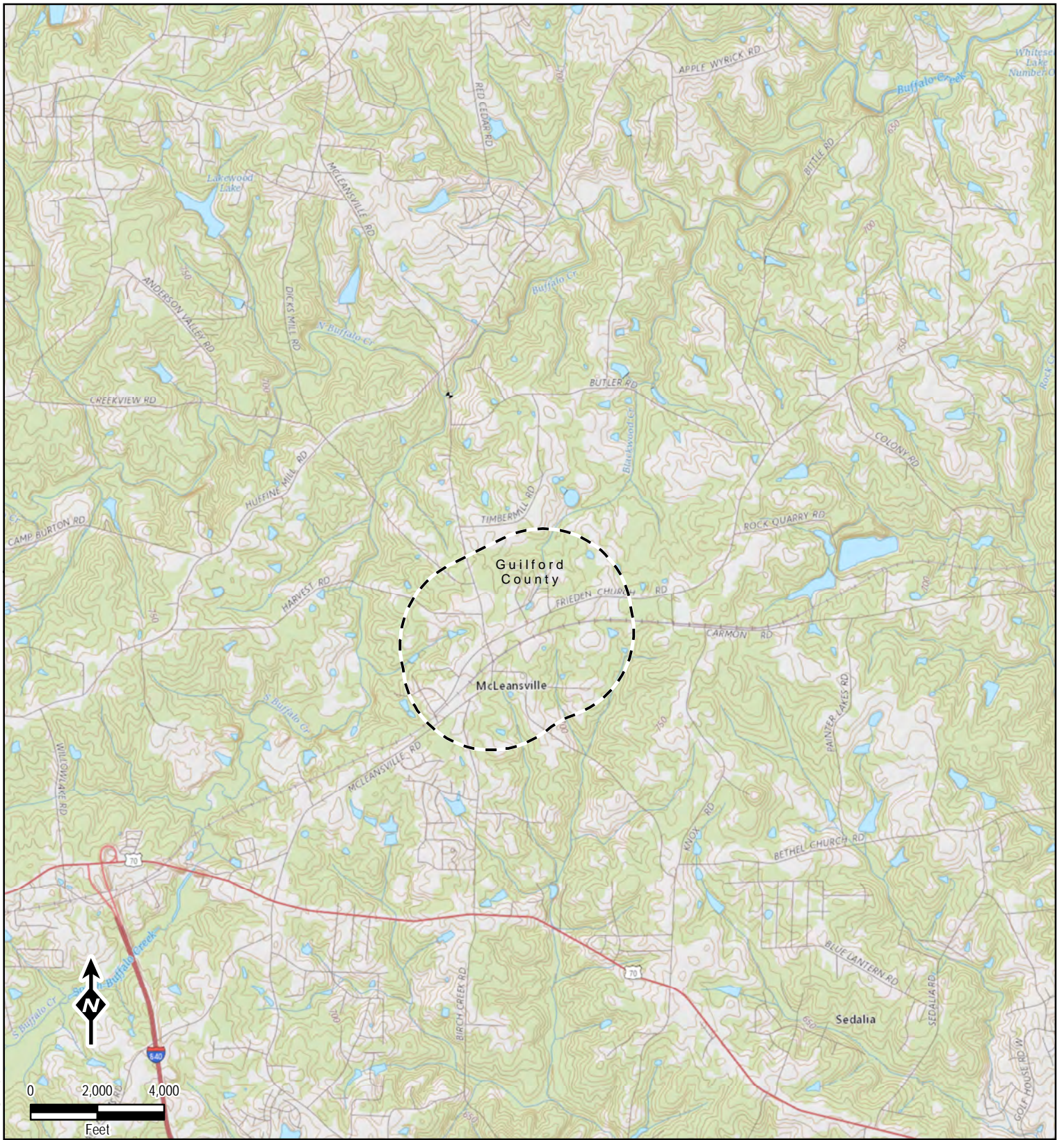
North Carolina Facilities Map

Sheet 8 of 9

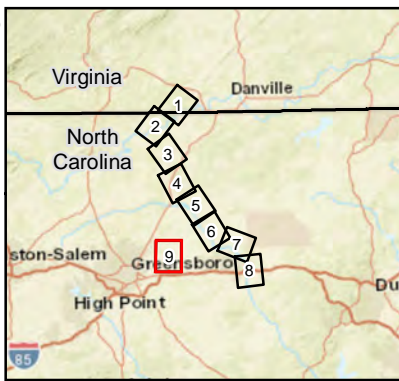
TRC
Results you can rely on

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West Chester, PA 19382

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Data Sources: ESRI, USGS, TRC, EQT
 1 inch = 4,000 feet
 When Printed 8.5x11



North Carolina Facilities Map

Sheet 9 of 9



600 Willowbrook Ln
West Chester, PA 19382

Virginia Correspondence

From: Wheeler, Katelyn
To: ["Scott.Kudlas@deq.virginia.gov"](mailto:Scott.Kudlas@deq.virginia.gov)
Cc: [De La Flor, Laura](#); [Sweeney, Daniel](#); [Zimmer, John](#)
Subject: Request for VA DEQ GIS publically available data - Pittsylvania County
Date: Monday, July 9, 2018 4:04:00 PM
Attachments: [image001.jpg](#)

Good afternoon Mr. Kudlas – Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of collecting publically available GIS data pertaining to existing groundwater and surface water resources in Pittsylvania County. For the last few weeks, the VA DEQ GIS website for publically available GIS data has been malfunctioning, not allowing any downloads of the datasets. If the datasets exist, I am hoping that you could provide via email any current GIS data pertaining to the following:

- Aquifers
- Public Supply Wells and Springs
- Known Spring and Swallets
- Source Water Protection Areas or Specific Water Sources
- Known Brine Pits
- Watersheds
- Public Surface Water Supply Intakes
- Impaired Waterbodies

I understand that some of this information may not exist or be available, but if you could please send over any GIS data that may be relevant to the list above I would appreciate it. If this email should be directed to someone else within VA DEQ, please let me know their name and email.

Please let me know if you need any additional information pertaining to this request. Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: [Maynard, Joel](#)
To: [Wheeler, Katelyn](#)
Cc: [Scott Kudlas](#); [Hammond, Andrew \(DEQ\)](#); [Thomas, Curt](#)
Subject: Fwd: Request for VA DEQ GIS publically available data - Pittsylvania County
Date: Monday, July 16, 2018 7:07:08 AM
Attachments: [Triassic Jurassic Danville Basin Rocks Pittsylvania County.PNG](#)
[Banded Marble - Alligator Back Formation - Pittsylvania County USGS 500K Geologic Map Clip.PNG](#)
[MVP Data Request Pittsylvania County 07-09-2018.zip](#)

Hi Katelyn, please find the attached zip file containing shapefiles and spreadsheets with the data you requested. The paragraphs below explain the attached data, limitations, and contacts for further information.

- Aquifers

Pittsylvania County is part of the Piedmont physiographic province. The geologic units that underlie several meters of saprolite regolith in the county are fractured and highly deformed crystalline bedrock that aren't designated as individual aquifers. In general groundwater flows in a complex network of fractures that dissect and connect individual bedrock units. Some shallow groundwater is also available in useable quantities along the regolith/bedrock interface. For more information about how groundwater works in this area I suggest you contact our Piedmont / Blue Ridge groundwater specialist Brad White (Bradley.white@deq.virginia.gov).

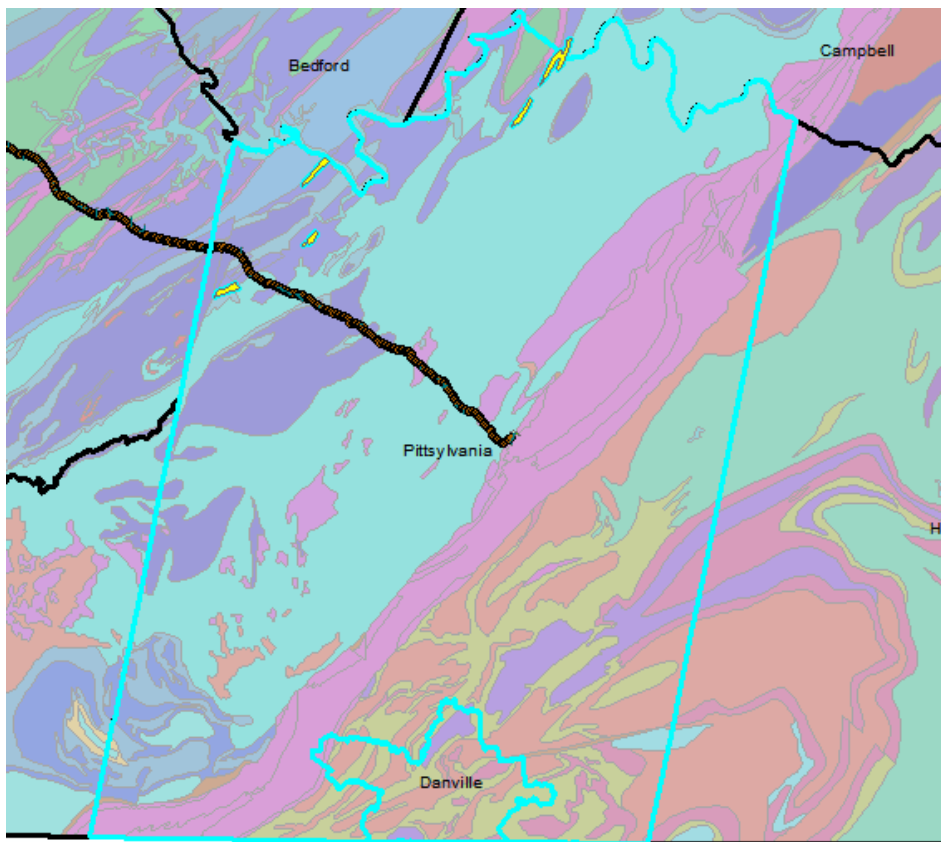
- Public Supply Wells and Springs

Known supply wells are included in previous attachment. No public supply springs were found in the VADEQ spring database or the historic springs of 1930 in Pittsylvania County. There are surely smaller springs in the region that may even be used as a domestic or agricultural supply. *The well and spring databases are not complete enough to take the place of a project based receptor survey*.

- Known Spring and Swallets

No springs were found in the VADEQ spring database or the historic springs of 1930 in Pittsylvania County. There are surely smaller springs in the region that may even be used as a domestic or agricultural supply. *The well and spring databases are not complete enough to take the place of a project based receptor survey*.

The majority of Pittsylvania County is underlain by igneous and metamorphic rocks that do not form classic karst swallets (sinkholes in streambeds), sinkholes, or caves. However, there are some pods of ancient metamorphosed carbonate rock units (Banded Marble units of the Alligator Back formation, highlighted in Yellow in figure below) that have some potential to form collapse structures as they have some carbonate material. That being said, no sinkholes were noted in Pittsylvania County in VDGMR's sinkhole database although I doubt that the county was ever evaluated due to lack of significant carbonate units. For more information on the extents of the VDGMR dataset, I would suggest talking with David Spears (david.spears@vdmme.virginia.gov)

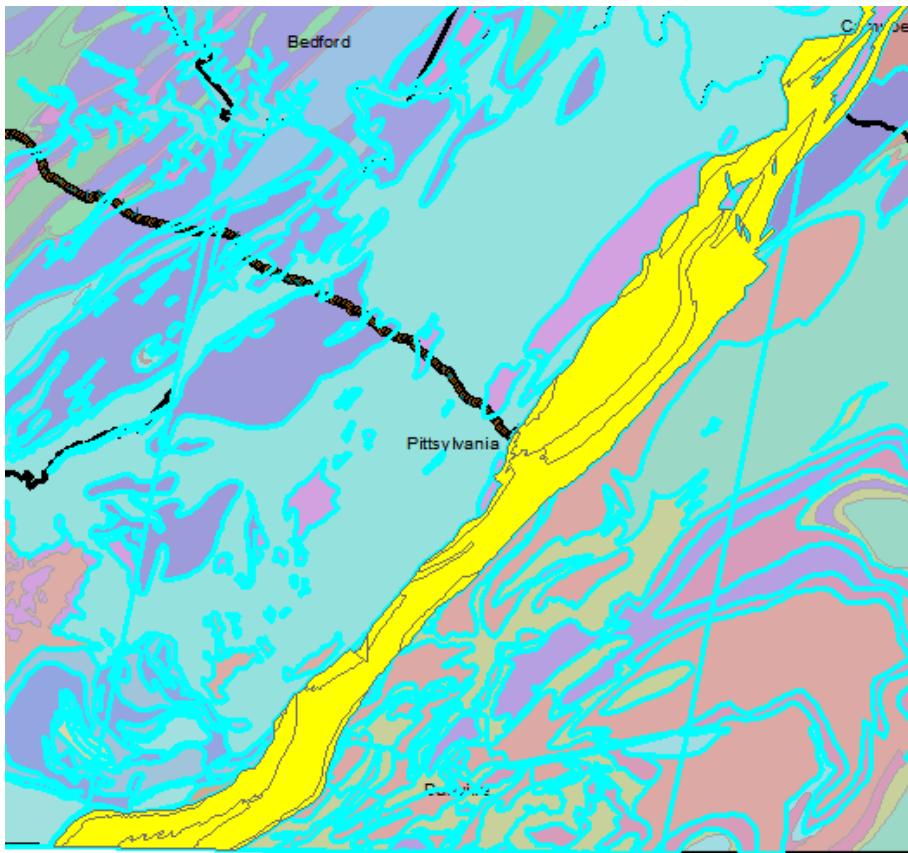


· Source Water Protection Areas or Specific Water Sources

I have no information on any SWPAs in Pittsylvania County. Contact Aaron Moses at VDH to see if he has any information (Aaron.Moses@vdh.virginia.gov).

· Known Brine Pits

I have no information on any Brine Pits in Pittsylvania County. There is some small chance that there could be some brine pit that may be associated with some legacy oil and gas development along the Danville Triassic basin (in yellow below). You may want to check with David Spears at VDMME to make sure.



· Watersheds

5th order watershed boundaries included in zip file

· Public Surface Water Supply Intakes

I included a clip from VDH showing GW and SW intakes for Pittsylvania County in the zip file. Contact Joanne Vivas for additional information (joanne.vivas@vdh.virginia.gov)

· Impaired Waterbodies

I included a clip of 303b/303d riverine assessments for Pittsylvania County released to the public on April 2, 2018. Also in the file are TMDL watersheds, TMDL implementation plan watersheds, and reported petroleum releases for the county. More info and contacts here: <https://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/WaterQualityAssessments/2016305b303dIntegratedReport.aspx> Contact Kelley Meadows for further questions about impaired waterbodies (kelly.meadows@deq.virginia.gov)

Hopefully some of this information will be useful. Please let me know if I can be of any further assistance.

Joel

From: Wheeler, Katelyn
To: ["anthony.cario@deq.virginia.gov"](mailto:anthony.cario@deq.virginia.gov)
Cc: [De La Flor, Laura](#); [Zimmer, John](#); ["Miller, Alex"](#)
Subject: Request for public water supply wells & springs information - Pittsylvania County
Date: Thursday, July 26, 2018 3:27:00 PM
Attachments: [Mountain Valley Agency Consult VA Maps.pdf](#)

Good afternoon Mr. Cario - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching public water supply wells and springs located in Pittsylvania County. Thus far in the research, we have been able to find very generalized information regarding public water supply wells and springs in this area. If possible, please provide more specific information regarding public water supply wells and springs in Pittsylvania County, specifically the location, any supply information available and the population served. Attached is a set of maps outlining the general location of the pipeline in Virginia.

Please let me know if there is any additional information regarding public water supply wells or springs in Pittsylvania County. Please email or call me (207-274-2610) if you need any additional information pertaining to this request.

Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: Wheeler, Katelyn
To: ["dave.davis@deq.virginia.gov"](mailto:dave.davis@deq.virginia.gov)
Cc: [De La Flor, Laura](#); [Zimmer, John](#); ["Miller, Alex"](#)
Subject: Request for surface water designation clarification - Pittsylvania County
Date: Thursday, July 26, 2018 3:37:00 PM

Hello Mr. Davis - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching surface water resources in this area. I understand from the VADEQ website that streams are assigned a designated use (aquatic life, fish consumption, public water supply, recreation, shellfishing or wildlife). There are many small streams, generally non blue line streams, that appear to have no available information regarding a designated use. Have these small streams not been assessed in the field, and therefore have not been assigned a designated use? Or do these smaller streams (tributaries to blue line streams) automatically inherit the blue line stream designation they flow into?

For example, Little Cherrystone Creek is designated as "Aquatic Life", are all small (non blue line & not assessed) tributaries to Little Cherrystone Creek automatically defaulted to "Aquatic Life" designation?

If the example above is correct, and tributaries inherit the blue line designation, can the same be assumed for impaired waterbodies? If Little Cherrystone Creek is designated as impaired, can it be assumed that all tributaries to Little Cherrystone Creek are also impaired for that specific designation?

Thank you for your time with this matter. Please email me or call me (207-274-2610) if you have any questions about this request.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: [Mueller, Sandra](#)
To: [Wheeler, Katelyn](#)
Cc: [Davis, Dave](#)
Subject: Re: Request for surface water designation clarification - Pittsylvania County
Date: Wednesday, August 1, 2018 11:41:38 AM

Ms. Wheeler,

In general, all streams in Virginia are expected to meet the Commonwealth's [designated uses](#). The designated uses in relation to stream segments are shown on the agency's mapping application, [VEGIS](#), as: Aquatic Life, Fish Consumption, PWS, Recreation, and Wildlife. The applicability of Public Water Supply (PWS) will vary based on whether the stream is part of a PWS system. PWS designations can be found in the Virginia Water Quality Standards (<https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/>). There are many tributary streams that do not have monitoring data available for the assessment of one or more designated use, so the associated designated use is shown as 'not assessed'.

Little Cherrystone Creek is not supporting the Recreational Use and is fully supporting the Aquatic Life use during the [2016 303\(d\)/305\(b\) Integrated reporting period](#) (which incorporated water quality from 2009 through 2014). The Fish Consumption and Wildlife designated uses were not assessed during that time. There was a Total Maximum Daily Load (TMDL) developed to address the recreational use (Escherichia coli bacteria) impairment in the Banister River watershed, and this report is available upon request.

The tributaries to Little Cherrystone Creek are not assessed for any of the designated uses because DEQ did not have water quality data to evaluate the designated uses on those tributaries.

If you have any questions, please let me know.

Thanks,
Sandy

Sandra Mueller

Water Monitoring and Assessment Program Manager, VADEQ

1111 East Main Street, Richmond, Virginia 23219 **PHONE** 804-698-4324

Mailing Address: P.O. Box 1105, Richmond Virginia 23218

<http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs.aspx>

On Thu, Jul 26, 2018 at 4:32 PM, Davis, Dave <dave.davis@deq.virginia.gov> wrote:

Dave

David L. Davis, CPWD, PWS

Director, Office of Wetlands & Stream Protection

Virginia Department of Environmental Quality

1111 East Main Street, Suite 1400

Richmond, Virginia 23219

804.698.4105

www.deq.virginia.gov

----- Forwarded message -----

From: **Wheeler, Katelyn** <KWheeler@trcsolutions.com>
Date: Thu, Jul 26, 2018 at 3:37 PM
Subject: Request for surface water designation clarification - Pittsylvania County
To: "dave.davis@deq.virginia.gov" <dave.davis@deq.virginia.gov>
Cc: "De La Flor, Laura" <LdelaFlor@trcsolutions.com>, "Zimmer, John" <JZimmer@trcsolutions.com>, "Miller, Alex" <Alex.Miller@nexteraenergy.com>

Hello Mr. Davis - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching surface water resources in this area. I understand from the VADEQ website that streams are assigned a designated use (aquatic life, fish consumption, public water supply, recreation, shellfishing or wildlife). There are many small streams, generally non blue line streams, that appear to have no available information regarding a designated use. Have these small streams not been assessed in the field, and therefore have not been assigned a designated use? Or do these smaller streams (tributaries to blue line streams) automatically inherit the blue line stream designation they flow into?

For example, Little Cherrystone Creek is designated as "Aquatic Life", are all small (non blue line & not assessed) tributaries to Little Cherrystone Creek automatically defaulted to "Aquatic Life" designation?

If the example above is correct, and tributaries inherit the blue line designation, can the same be assumed for impaired waterbodies? If Little Cherrystone Creek is designated as impaired, can it be assumed that all tributaries to Little Cherrystone Creek are also impaired for that specific designation?

Thank you for your time with this matter. Please email me or call me (207-274-2610) if you have any questions about this request.

Katelyn Wheeler

Env. Scientist & Permitting Specialist



[6 Ashley Drive, Scarborough, ME 04074](http://www.trc.com)

C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

[LinkedIn](#) | [Twitter](#) | [Blog](#) | [Flickr](#) | www.trcsolutions.com

Wheeler, Katelyn

From: Wheeler, Katelyn
Sent: Wednesday, August 15, 2018 12:11 PM
To: 'Mueller, Sandra'
Cc: De La Flor, Laura; Zimmer, John; 'Miller, Alex'; 'mstahl@eqt.com'; Gifford, Susie
Subject: RE: Request for surface water designation clarification - Pittsylvania County
Attachments: Mountain Valley_Agency_Consult VA Maps.pdf

Ms. Mueller - Thank you for your response, the information below is helpful. We have reviewed the publically available data on the website for trout waters and would like to confirm that there are no designated trout waters located within the Project area in Virginia. Also, through our research, we have determined there are only warmwater habitat (WWH) waterbodies located within the Project area in Virginia – could you please confirm that determination?

Please let me know if you need any additional information. I have attached a set of reference maps for the general Project location in Virginia.

Thank you.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



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C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: Mueller, Sandra [mailto:sandra.mueller@deq.virginia.gov]
Sent: Wednesday, August 1, 2018 11:42 AM
To: Wheeler, Katelyn <KWheeler@trcsolutions.com>
Cc: Davis, Dave <dave.davis@deq.virginia.gov>
Subject: Re: Request for surface water designation clarification - Pittsylvania County

Ms. Wheeler,

In general, all streams in Virginia are expected to meet the Commonwealth's [designated uses](#). The designated uses in relation to stream segments are shown on the agency's mapping application, [VEGIS](#), as: Aquatic Life, Fish Consumption, PWS, Recreation, and Wildlife. The applicability of Public Water Supply (PWS) will vary based on whether the stream is part of a PWS system. PWS designations can be found in the Virginia Water Quality Standards (<https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/>). There are many tributary streams that do not have monitoring data available for the assessment of one or more designated use, so the associated designated use is shown as 'not assessed'.

Little Cherrystone Creek is not supporting the Recreational Use and is fully supporting the Aquatic Life use during the [2016 303\(d\)/305\(b\) Integrated reporting period](#) (which incorporated water quality from 2009 through 2014). The Fish Consumption and Wildlife designated uses were not assessed during that time. There was a Total Maximum Daily Load (TMDL) developed to address the recreational use (Escherichia coli bacteria) impairment in the Banister River watershed, and this report is available upon request.

The tributaries to Little Cherrystone Creek are not assessed for any of the designated uses because DEQ did not have water quality data to evaluate the designated uses on those tributaries.

If you have any questions, please let me know.

Thanks,
Sandy

Sandra Mueller

Water Monitoring and Assessment Program Manager, VADEQ

1111 East Main Street, Richmond, Virginia 23219 **PHONE** 804-698-4324

Mailing Address: P.O. Box 1105, Richmond Virginia 23218

<http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs.aspx>

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David L. Davis, CPWD, PWS

Director, Office of Wetlands & Stream Protection

Virginia Department of Environmental Quality

1111 East Main Street, Suite 1400

Richmond, Virginia 23219

804.698.4105

www.deq.virginia.gov

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From: **Wheeler, Katelyn** <KWheeler@trcsolutions.com>

Date: Thu, Jul 26, 2018 at 3:37 PM

Subject: Request for surface water designation clarification - Pittsylvania County

To: "dave.davis@deq.virginia.gov" <dave.davis@deq.virginia.gov>

Cc: "De La Flor, Laura" <LdelaFlor@trcsolutions.com>, "Zimmer, John" <JZimmer@trcsolutions.com>, "Miller, Alex" <Alex.Miller@nexteraenergy.com>

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Katelyn Wheeler

Env. Scientist & Permitting Specialist



[6 Ashley Drive, Scarborough, ME 04074](#)

C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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Attachments: Mountain Valley_Agency_Consult VA Maps.pdf

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Katelyn Wheeler
Env. Scientist & Permitting Specialist



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Sandy

Sandra Mueller

Water Monitoring and Assessment Program Manager, VADEQ

1111 East Main Street, Richmond, Virginia 23219 **PHONE** 804-698-4324

Mailing Address: P.O. Box 1105, Richmond Virginia 23218

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David L. Davis, CPWD, PWS

Director, Office of Wetlands & Stream Protection

Virginia Department of Environmental Quality

1111 East Main Street, Suite 1400

Richmond, Virginia 23219

804.698.4105

www.deq.virginia.gov

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Subject: Request for surface water designation clarification - Pittsylvania County

To: "dave.davis@deq.virginia.gov" <dave.davis@deq.virginia.gov>

Cc: "De La Flor, Laura" <LdelaFlor@trcsolutions.com>, "Zimmer, John" <JZimmer@trcsolutions.com>, "Miller, Alex" <Alex.Miller@nexteraenergy.com>

Hello Mr. Davis - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching surface water resources in this area. I understand from the VADEQ website that streams are assigned a designated use (aquatic life, fish consumption, public water supply, recreation, shellfishing or wildlife). There are many small streams, generally non blue line streams, that appear to have no available information regarding a designated use. Have these small streams not been assessed in the field, and therefore have not been assigned a designated use? Or do these smaller streams (tributaries to blue line streams) automatically inherit the blue line stream designation they flow into?

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Thank you for your time with this matter. Please email me or call me (207-274-2610) if you have any questions about this request.

Katelyn Wheeler

Env. Scientist & Permitting Specialist



[6 Ashley Drive, Scarborough, ME 04074](#)

C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: Wheeler, Katelyn
To: ["Bradley.white@deq.virginia.gov"](mailto:Bradley.white@deq.virginia.gov)
Cc: [De La Flor, Laura](#); [Zimmer, John](#); ["Miller, Alex"](#)
Subject: Request for groundwater well yields & depths information - Pittsylvania County
Date: Thursday, July 26, 2018 3:41:00 PM
Attachments: [Mountain Valley Agency Consult VA Maps.pdf](#)

Good afternoon Mr. White – Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching aquifers and specifically well yields and well depths in Pittsylvania County. Thus far in the research, we have been able to find very generalized information regarding well yields and depths in the Piedmont regional aquifer system. If possible, could you please provide more specific information regarding well yields and depths in Pittsylvania County. Attached is a set of maps outlining the general location of the pipeline in Pittsylvania County.

Please let me know if there is any additional information regarding well yields and depths in Pittsylvania County. please email or call me (207-274-2610) if you need any additional information pertaining to this request.

Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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Wheeler, Katelyn

From: Wheeler, Katelyn
Sent: Tuesday, August 14, 2018 10:58 AM
To: 'mary.mahoney@vdh.virginia.gov'
Cc: De La Flor, Laura; Zimmer, John; 'Miller, Alex'
Subject: Request for source water protection area information - Pittsylvania County
Attachments: Mountain Valley_Agency_Consult VA Maps.pdf

Hello Ms. Mahoney - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, Virginia and is in the process of researching source water protection areas located in Pittsylvania County. Could you please provide information regarding source water protection areas located in this area? Attached is a set of maps outlining the general location of the pipeline in Virginia.

Please email or call me (207-274-2610) if you need any additional information pertaining to this request.

Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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TRC
6 Ashley Drive
Scarborough Maine 04074

TELEPHONE COMMUNICATIONS

Memorandum

Date: 8-16-2018
To: Katelyn Wheeler
TRC Environmental
From: Mary Mahoney
VDWR
Subject: Source Water Protection Program - VA
Project: MVP Southgate Project

Ms. Mary Mahoney called me (Katelyn Wheeler) at 9:20am on August 16, 2018, to discuss the Source Water Protection Program in Virginia. Ms. Mahoney indicated that the source water protection program is a voluntary program and that there are no regulations on the books pertaining to source water protection areas. VDWR does not keep detailed records of specific source water protection areas, there is no database, but rather they have a general idea where communities have designated as protection areas. Due to the voluntary nature of the program, there are no ordinances or reporting requirements from the communities. VDWR does maintain general assessment areas, which they provide to water works departments to use in their determination if protection areas are required. Ms. Mahoney is going to review the mapping that was sent to her and email any assessment areas that are located within the Project area. Ms. Mahoney did indicate there could be no data for Pittsylvania County, but Ms. Mahoney would take a look over the next couple of days and respond accordingly.

Wheeler, Katelyn

From: Wheeler, Katelyn
Sent: Tuesday, August 14, 2018 10:47 AM
To: 'aaron.moses@vdh.virginia.gov'
Cc: De La Flor, Laura; Zimmer, John; 'Miller, Alex'
Subject: Request for source water protection area information - Pittsylvania County
Attachments: Mountain Valley_Agency_Consult VA Maps.pdf

Good morning Mr. Moses - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, Virginia and is in the process of researching source water protection areas located in Pittsylvania County. Could you please provide information regarding source water protection areas located in this area? Attached is a set of maps outlining the general location of the pipeline in Virginia.

Please email or call me (207-274-2610) if you need any additional information pertaining to this request.

Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



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C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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Wheeler, Katelyn

From: Moses, Aaron <aaron.moses@vdh.virginia.gov>
Sent: Tuesday, August 14, 2018 10:47 AM
To: Wheeler, Katelyn
Subject: Out of Office - August 4-27 Re: Request for source water protection area information - Pittsylvania County

I will be out of the office from August 4 - 27. I will check my email periodically during this time, but if you need immediate assistance, please contact Mary Mahoney (mary.mahoney@vdh.virginia.gov) for any source water related questions, or Bob Edelman (robert.edelman@vdh.virginia.gov) for any questions related to permitting, sanitary surveys, or Legionella.

Thank you,
Aaron

--

*Aaron Moses, PE, VCA
Special Projects Engineer/Acting Field Services Engineer
Office of Drinking Water
Virginia Department of Health
109 Governor St., Room 625
Richmond, VA 23219
(804)864-7492*

Wheeler, Katelyn

From: Wheeler, Katelyn
Sent: Wednesday, August 15, 2018 2:22 PM
To: timothy.hatton@dcr.virginia.gov
Cc: De La Flor, Laura; Zimmer, John; Miller, Alex
Subject: Virginia Scenic River Program -Sandy River - Pittsylvania County
Attachments: Mountain Valley_Agency_Consult VA Maps.pdf

Hello Mr. Hatton - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching surface water resources in this area. The proposed pipeline will cross the Sandy River. This segment of the Sandy River is listed in the Virginia Scenic River Program as qualified for potential designation. Is there any additional information you could provide for this segment of the Sandy River in Pittsylvania County? Please see the attached mapping for a reference to the proposed crossing of the Sandy River.

Please let me know if you have any questions. Thank you for your time.

Katelyn Wheeler
Env. Scientist & Permitting Specialist



6 Ashley Drive, Scarborough, ME 04074
C: 207-314-5303 D: 207-274-2610 F: 207-879-9293

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From: [Cario, Anthony](#)
To: [Wheeler, Katelyn](#)
Cc: [De La Flor, Laura](#); [Zimmer, John](#); [Miller, Alex](#)
Subject: Re: Request for public water supply wells & springs information - Pittsylvania County
Date: Friday, July 27, 2018 10:12:07 AM
Attachments: [Pittsylvania_db.pdf](#)

Hello Ms. Wheeler, I am looking into what information we have in our GIS system regarding Public Water supplies and springs along the MVP pipeline in Pittsylvania County. I have also attached a table from the Water Supply plan for Pittsylvania County that lists some water sources that may be of use. Have you contacted the Pittsylvania County Service Authority as they should have information about the public water sources in the area.

I will send the information we have from our database once that has been put together. Please contact me if you have any other questions.

Thank you

On Thu, Jul 26, 2018 at 3:27 PM, Wheeler, Katelyn <KWheeler@trcsolutions.com> wrote:

Good afternoon Mr. Cario - Mountain Valley Pipeline, LLC is proposing a natural gas pipeline in Pittsylvania County, VA and is in the process of researching public water supply wells and springs located in Pittsylvania County. Thus far in the research, we have been able to find very generalized information regarding public water supply wells and springs in this area. If possible, please provide more specific information regarding public water supply wells and springs in Pittsylvania County, specifically the location, any supply information available and the population served. Attached is a set of maps outlining the general location of the pipeline in Virginia.

Please let me know if there is any additional information regarding public water supply wells or springs in Pittsylvania County. Please email or call me (207-274-2610) if you need any additional information pertaining to this request.

Thank you for your time.

Katelyn Wheeler

Env. Scientist & Permitting Specialist



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|

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Tony Cario

Environmental Specialist
Office of Water Supply
Department of Environmental Quality
P.O. Box 1105, Richmond, VA 23218
804-698-4089
anthony.cario@deq.virginia.gov
www.deq.virginia.gov



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:
Consultation Code: 05E2VA00-2018-SLI-4572
Event Code: 05E2VA00-2018-E-10443
Project Name: MVP Southgate

July 24, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Raleigh Ecological Services Field Office

Post Office Box 33726

Raleigh, NC 27636-3726

(919) 856-4520

Project Summary

Consultation Code: 05E2VA00-2018-SLI-4572

Event Code: 05E2VA00-2018-E-10443

Project Name: MVP Southgate

Project Type: OIL OR GAS

Project Description: Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity (“Certificate”) from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72-miles of 24-inch-diameter natural gas pipeline, known as the H-650 pipeline, to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States. Subject to receipt of the required permits and regulatory approvals, Mountain Valley anticipates construction of the Project to commence in spring of 2020.

The proposed Project will interconnect with and receive gas from the existing Mountain Valley Pipeline near Chatham, Virginia, and the East Tennessee Natural Gas, LLC., mainline near Eden, North Carolina, and will deliver gas to connections with customers’ existing facilities in Eden and Graham, North Carolina. The Project is a stand-alone project from the Mountain Valley Pipeline and has an expected in-service date of late 2020. In addition to the H-650 pipeline, Mountain Valley proposes to construct and operate two new compressor stations at milepost (MP) 0 in Pittsylvania County, VA, and near MP 26 in Rockingham County, NC, and four interconnects near MPs 0, 28, 30, and 72. Meter stations and other ancillary facilities required for the safe and reliable operation of the pipeline are also included.

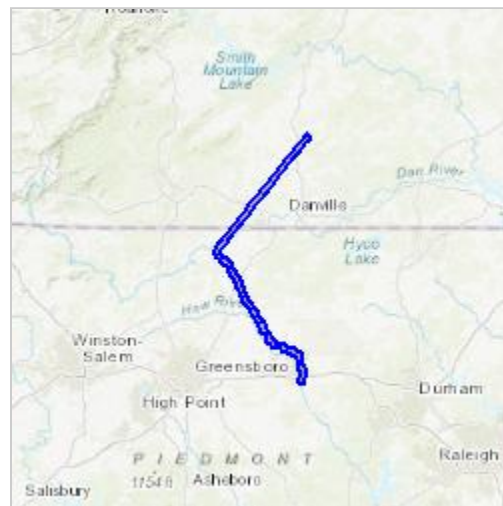
To the extent practicable, Mountain Valley has routed the new pipeline parallel to existing corridors. As currently proposed, the pipeline is located parallel to existing utility corridors, trails, and roads for approximately 47 percent (34 miles) of the proposed alignment. The Project limits-of-disturbance include a 100-foot-wide right-of-way (ROW), consisting of 50-foot temporary and 50-foot permanent easements. Where feasible, the ROW will be reduced in width to 75 feet at resource crossings. The permanent ROW affects approximately 160.8

acres in Virginia and 283.7 acres in North Carolina. The temporary ROW affects approximately 266.6 acres in Virginia and 477.4 acres in North Carolina.

Access roads are 25-feet wide for permanent or temporary use. To facilitate the construction and maintenance of the pipeline, 196 access roads are currently proposed to be constructed or improved. Of the 196 access roads, 68 will be in Virginia (± 23.2 mi) and 128 will be in North Carolina (± 28.3 mi). Additional temporary workspaces, laydown and contractor yards are also anticipated.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.4381113895334N79.67863596697566W>



Counties: Alamance, NC | Caswell, NC | Guilford, NC | Rockingham, NC | Pittsylvania, VA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Fishes

NAME	STATUS
Roanoke Logperch <i>Percina rex</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1134	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Matthew J. Strickler
Secretary of Natural Resources

Clyde E. Cristman
Director



Rochelle Altholz
Deputy Director of
Administration and Finance

Russell W. Baxter
Deputy Director of
Dam Safety & Floodplain
Management and Soil & Water
Conservation

Thomas L. Smith
Deputy Director of Operations

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

June 8, 2018

Heather Patti
TRC Environmental Corporation
5540 Centerview Drive, Suite 100
Raleigh, NC 27606

Re: MVP Southgate

Dear Ms. Patti:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources within the study area (1 mile buffer of centerline) created from the submitted map and shapefile. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

Below the natural heritage information is provided for the Mountain Valley Pipeline-Southgate by 1:24000 quadrangles for the study area (1 mile buffer of centerline).

Spring Garden Quad

According to the information currently in our files, the Transco Road Net Conservation Site is located within study area. Conservation sites are tools for representing key areas of the landscape that warrant further review for possible conservation action because of the natural heritage resources and habitat they support. Conservation sites are polygons built around one or more rare plant, animal, or natural community designed to include the element and, where possible, its associated habitat, and buffer or other adjacent land thought necessary for the element's conservation. Conservation sites are given a biodiversity significance ranking based on the rarity, quality, and number of element occurrences they contain; on a scale of 1-5, 1 being most significant. The Transco Road Net Conservation Site has been given a biodiversity significance ranking of B3, which represents a site of high significance. The natural heritage resource of concern at this site is:

Perimyotis subflavus

Tri-colored bat

G2G3/S1S3/NL/LE

The tri-colored bat is a very small bat distinguished from other Myotis species by tricolored individual back hairs and inhabits open woods near water, rock cliffs, buildings and caves in the summer. Since 2008 there has been a significant decline in population numbers (greater than 90%) for both bat species due to white nose syndrome. The tri-colored bat was state listed as "endangered" on April 1, 2016 by the Virginia Department of Game and Inland Fisheries (VDGIF).

Due to the legal status of the tri-colored bat, DCR recommends coordination with the VDGIF, Virginia's regulatory authority for the management and protection of these species to ensure compliance with the Virginia Endangered Species Act (VA ST §§ 29.1-563 – 570).

Chatham Quad

According to a DCR zoologist, potential exists for rare mussels to occur in the Bannister River at the proposed crossing.

Brosville Quad

According to the information currently in our files, Piedmont barbara's-buttons (*Marshallia obovata* var. *obovata*, G4G5TNR/S1/NL/NL), Downy phlox (*Phlox pilosa*, G5/S2/NL/NL) and American Bluehearts (*Buchnera americana*, G5/S1S2/NL/NL) have been historically documented within the study area.

Piedmont barbara's-buttons, a state rare perennial herb, typically inhabits clay flats, open grassy areas, forest edges, and wooded areas with open canopies (Radford et. al., 1968; Weakley, in prep.). It has also been documented in such disturbed areas as powerline rights-of-way (TNC, 1996). Piedmont barbara's-buttons blooms from late April through early June and ranges from south central Virginia through southwest Georgia (Weakley, in prep.). As of 2014, 9 occurrences of this state rare plant were documented by the Virginia Natural Heritage Program, 5 extant and 4 historic.

Downy phlox, a state rare plant species, inhabits dry to mesic woodlands and forests and has also been found in such disturbed areas as roadbanks and powerline right-of-ways. This perennial blooms in May and June (Weakley, in prep.). Downy phlox is currently known from four locations in Virginia and historically known from multiple locations in the state.

American bluehearts is a perennial herb with spikes of deep purple flowers blooming from July to early September terminate the stem. The plant occurs in seasonally moist to dry soils of barrens, clearings, old fields, meadows, and roadsides; it occurs on calcareous or mafic substrates in the mountains and Piedmont and on acidic, sandy or clayey soils in the Coastal Plain (Weakley et al., 2012). As of 2014, 17 occurrences of this state rare plant were documented by the Virginia Natural Heritage Program, 8 historic and 9 extant. Threats include loss of habitat due to conversion and succession as well as competition from non-native invasive species.

All Quads (Brosville, Chatham, Mount Hermon, Northeast Eden, Spring Garden and Whitmell)

Due to the potential for the study area and the centerline to support populations of natural heritage resources, DCR recommends an inventory for rare Piedmont plants within the study area and rare freshwater mussels at the Banister River. With the survey results we can more accurately evaluate potential impacts to natural heritage resources and offer specific protection recommendations for minimizing impacts to the documented resources.

DCR-Division of Natural Heritage biologists are qualified and available to conduct inventories for rare, threatened, and endangered species. Please contact J. Christopher Ludwig, Natural Heritage Inventory Manager, at chris.ludwig@dcr.virginia.gov or 804-371-6206 to discuss arrangements for field work.

DCR recommends the development and implementation of an invasive species plan to be included as part of the maintenance practices for the right-of-way (ROW). The invasive species plan should include an invasive species inventory for the project area based on the current DCR Invasive Species List (<http://www.dcr.virginia.gov/natural-heritage/document/nh-invasive-plant-list-2014.pdf>) and methods for treating the invasives. DCR also recommends the ROW restoration and maintenance practices planned include appropriate revegetation using native species in a mix of grasses and forbs, robust monitoring and adaptive management plan to provide guidance if initial revegetation efforts are unsuccessful or if invasive species outbreaks occur.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

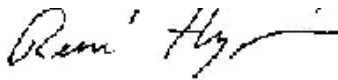
New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

A fee of \$615.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR Finance, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note late payment may result in the suspension of project review service for future projects.

The VDGIF maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from <http://vafwis.org/fwis/> or contact Ernie Aschenbach at 804-367-2733 or Ernie.Aschenbach@dgif.virginia.gov.

Should you have any questions or concerns, feel free to contact me at 804-371-2708. Thank you for the opportunity to comment on this project.

Sincerely,

A handwritten signature in cursive script, appearing to read "S. René Hypes".

S. René Hypes
Project Review Coordinator

CC: Ernie Aschenbach, VDGIF

Literature Cited

Radford, A.E., H.A. Ahles, C.R. Bell. 1968. *Manual of the Vascular Flora of the Carolinas*. University of North Carolina Press, Chapel Hill. p. 1131.

The Nature Conservancy. 1996. *Biological and Conservation Data System*. Arlington, Virginia, USA.

Weakley, A.S. In prep. *Flora of the Carolina's and Virginia*. The Nature Conservancy, Southeastern Regional Office. p. 5-52.

Weakley, A.S, J. C. Ludwig, and J.F. Townsend 2012. *Flora of Virginia*. Bland Crowder, ed. Foundation of the Flora of Virginia Project Inc., Richmond. Fort Worth: Botanical Research Institute of Texas Press. pp. 761-762.



625 Liberty Avenue, Suite 1700 | Pittsburgh, PA 15222
833-MV-SOUTH | mail@mvpsouthgate.com
www.mvpsouthgate.com

July 18, 2018

Mr. Craig Seaver, Division Director
Virginia Department of Conservation and Recreation
State Parks
600 E Main ST, FL 24
Richmond, VA 23219

**RE: Request for Project Review
Mountain Valley, LLC – MVP Southgate Project**

Dear Mr. Seaver:

Mountain Valley Pipeline, LLC (“Mountain Valley”) is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the MVP Southgate Project (“Project”). The Project will be located in Pittsylvania County, Virginia and Rockingham and Alamance counties, North Carolina. Mountain Valley proposes to construct approximately 72 miles of 24-inch-diameter natural gas pipeline to provide timely, cost-effective access to new natural gas supplies to meet the growing needs of natural gas users in the southeastern United States.

On May 3, 2018, Mountain Valley filed a request with the Federal Energy Regulatory Commission (“FERC”) to use the National Environmental Policy Act pre-filing process (“Pre-filing Process”) for the MVP Southgate Project and the FERC issued a Pre-Filing docket number (PF18-4-000) to place information related to the Project into the public record. On May 15, 2018, the FERC granted Mountain Valley’s Pre-Filing request. The Pre-filing Process provides all stakeholders (including federal, state and local agencies, landowners, and local citizens) the opportunity for early cooperation and involvement in evaluating the project prior to filing a formal application with the FERC. Following the Pre-filing Process, Mountain Valley will file a formal application for review and approval from the FERC, and numerous other agencies. The permit proceedings, which will be conducted by these agencies, will provide additional opportunity for public input and involvement. The FERC application is currently targeted to be filed in November 2018. All other federal agency applications are planned to be filed in a similar time frame.

In Virginia, the proposed Project facilities in Pittsylvania County include approximately 26 miles of 24-inch-diameter natural gas pipeline, the Lambert Compressor Station, a pig launcher and receiver, three mainline valves, and one meter station. In addition to the Project overview map in Attachment 1, this attachment also contains USGS quadrangle excerpts of the facilities in Virginia and an Agency Review Corridor to help focus your review.

A flash drive containing electronic GIS shapefiles and Google Earth (.kmz) files of the Project facilities can be sent to you upon request.

Mountain Valley is in the process of collecting environmental resource data to evaluate and design the MVP Southgate Project facilities. With this information, TRC respectfully requests your review of the enclosed information to determine if the Project areas are will cross or be within 0.50 mile of the following sensitive environmental areas:

- State forests and parks
- Public recreation areas and trails
- Scenic roadways, waterways, and protected open space
- Proposed greenways
- Land and Water Conservation Fund properties.

Thank you for your assistance with this request. I look forward to working with you during the environmental review of this project. If you have any questions or comments regarding the information provided with this letter please do not hesitate to contact me Alex Miller 713-204-3729 or via email at Alex.Miller@nexteraenergy.com or Nicole Libby, 508-944-2102 or via email at NLibby@trcsolutions.com.

Regards,



Alex V. Miller
MVP Southgate Permitting Lead

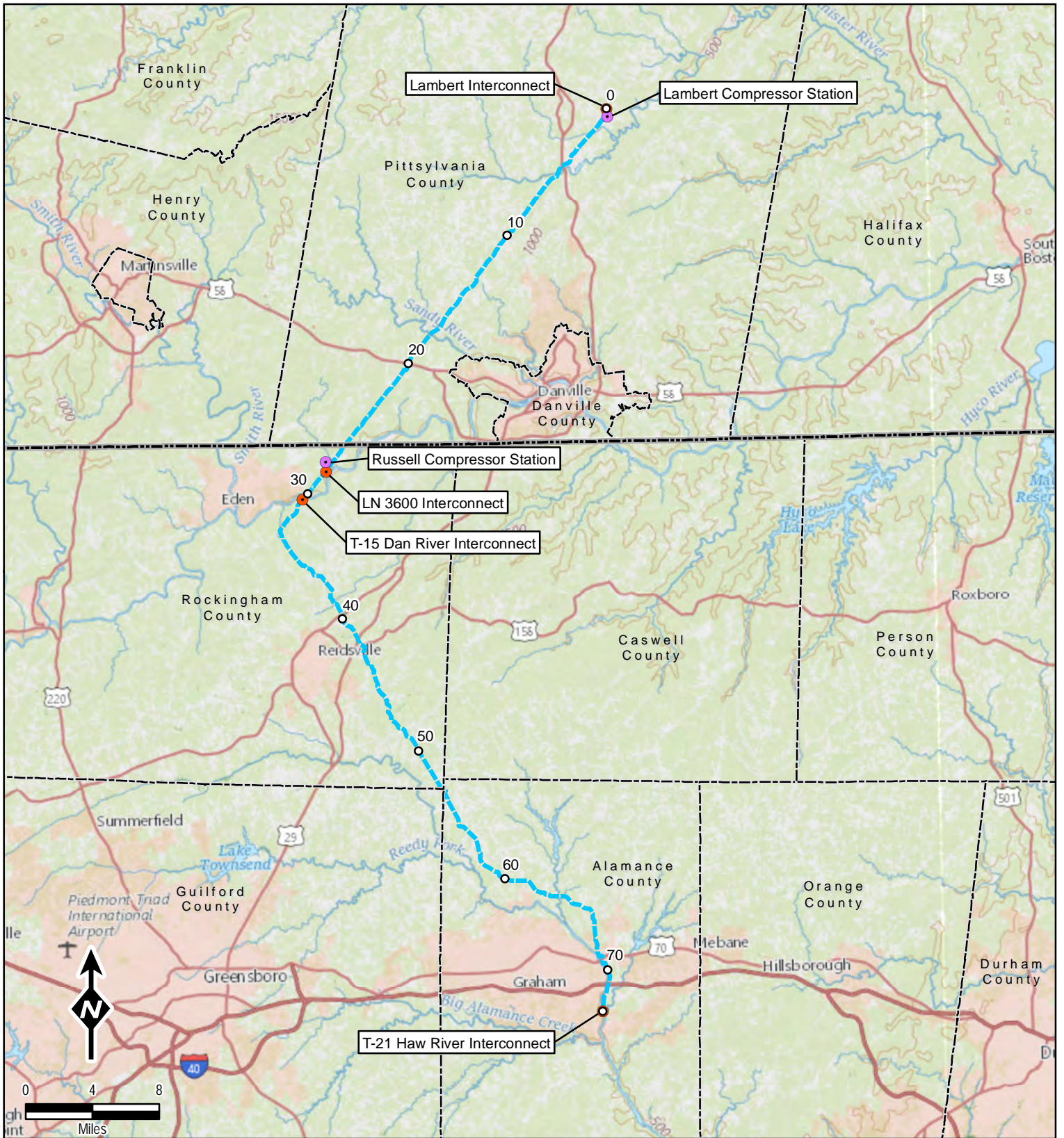
cc: John Zimmer
TRC Project Manager



ATTACHMENT 1

MVP Southgate Project Overview Map

USGS Quadrangle Excerpts - MVP Southgate Project in Virginia



Legend

- - - Proposed Pipeline Route
- Mileposts
- Compressor Station
- Meter Station
- - - County Boundary
- - - State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 8 miles
When Printed 8.5x11

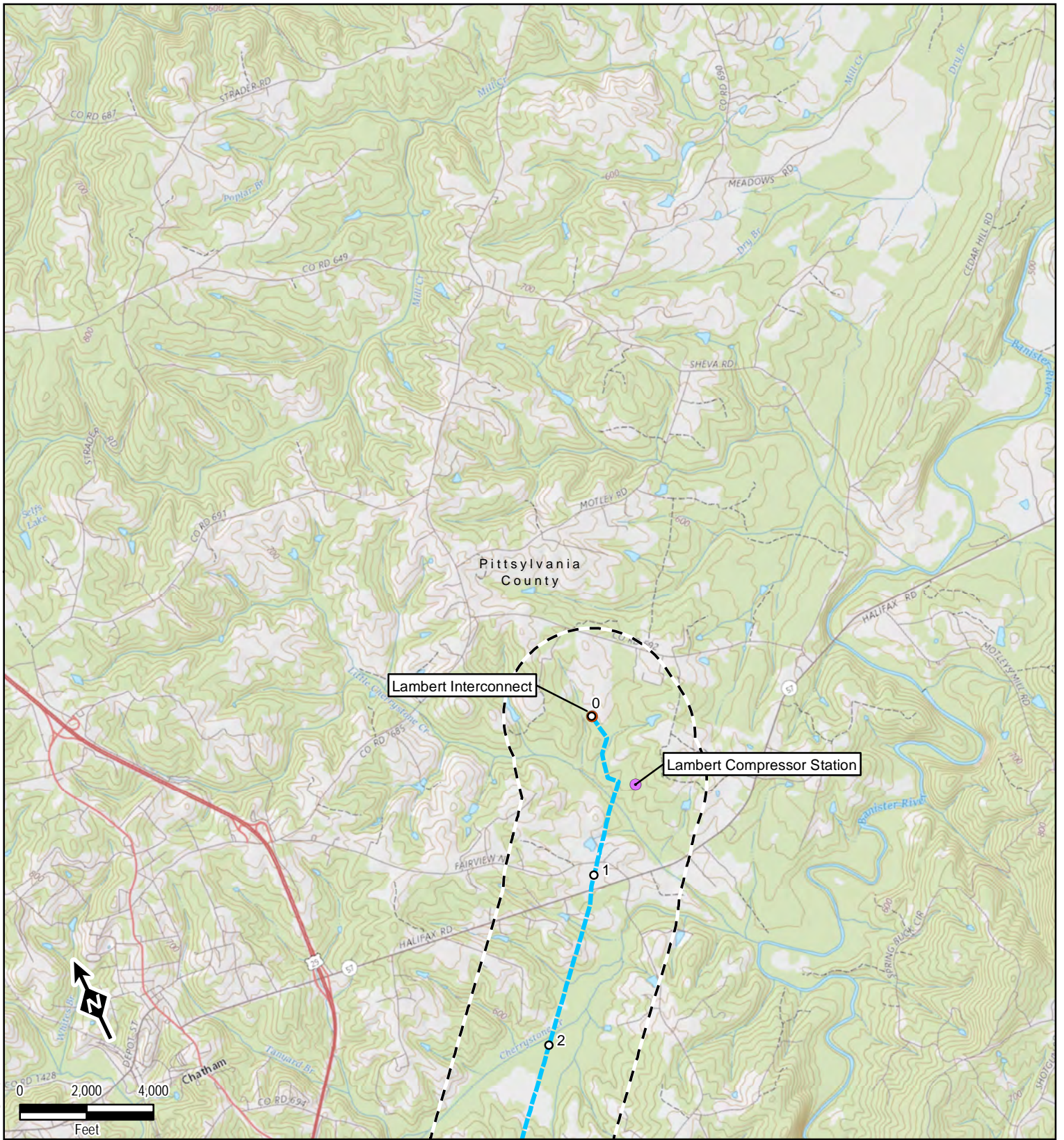
Mountain Valley
PIPELINE, LLC

Project Overview
Map

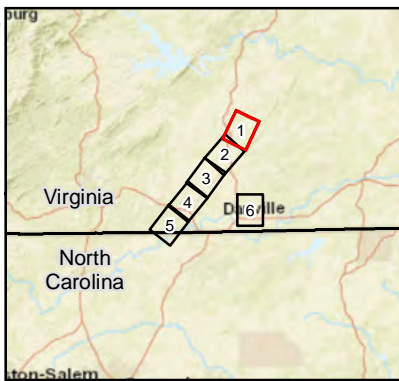
TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382

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Legend

- Mileposts
- Compressor Station
- Meter Station
- Proposed Pipeline Route
- Agency Review Corridor
- County Boundary
- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11



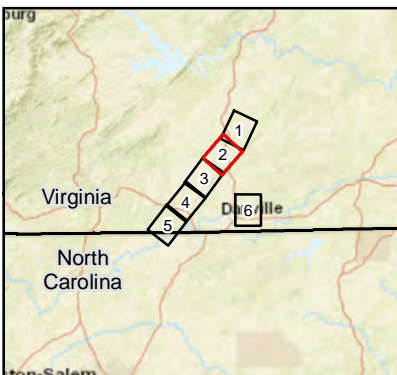
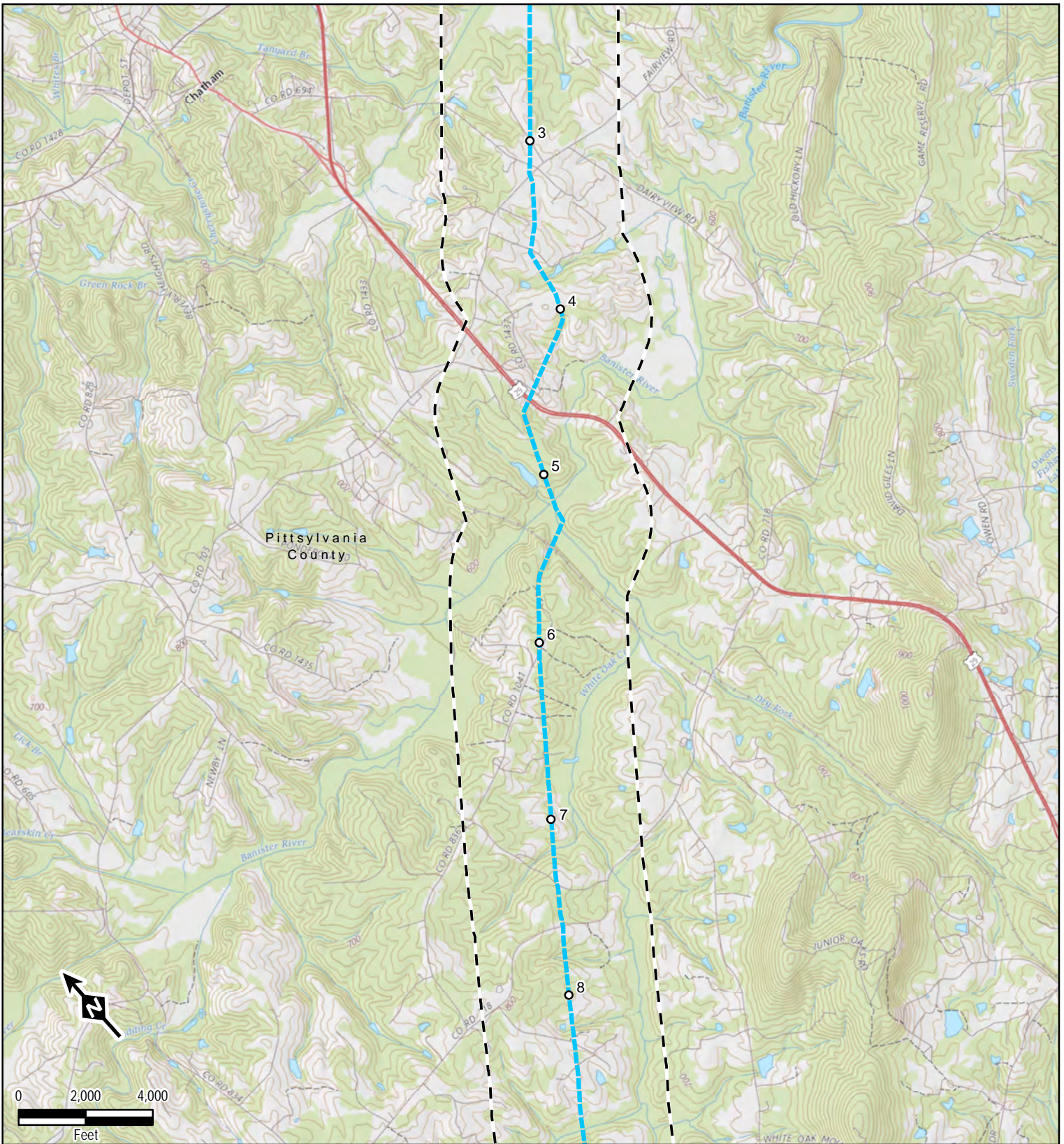
Virginia Facilities Map

Sheet 1 of 6



600 Willowbrook Ln
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Legend

- Mileposts
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- ▭ County Boundary
- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
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Mountain Valley
PIPELINE LLC

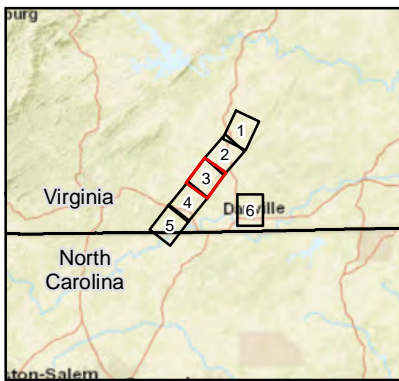
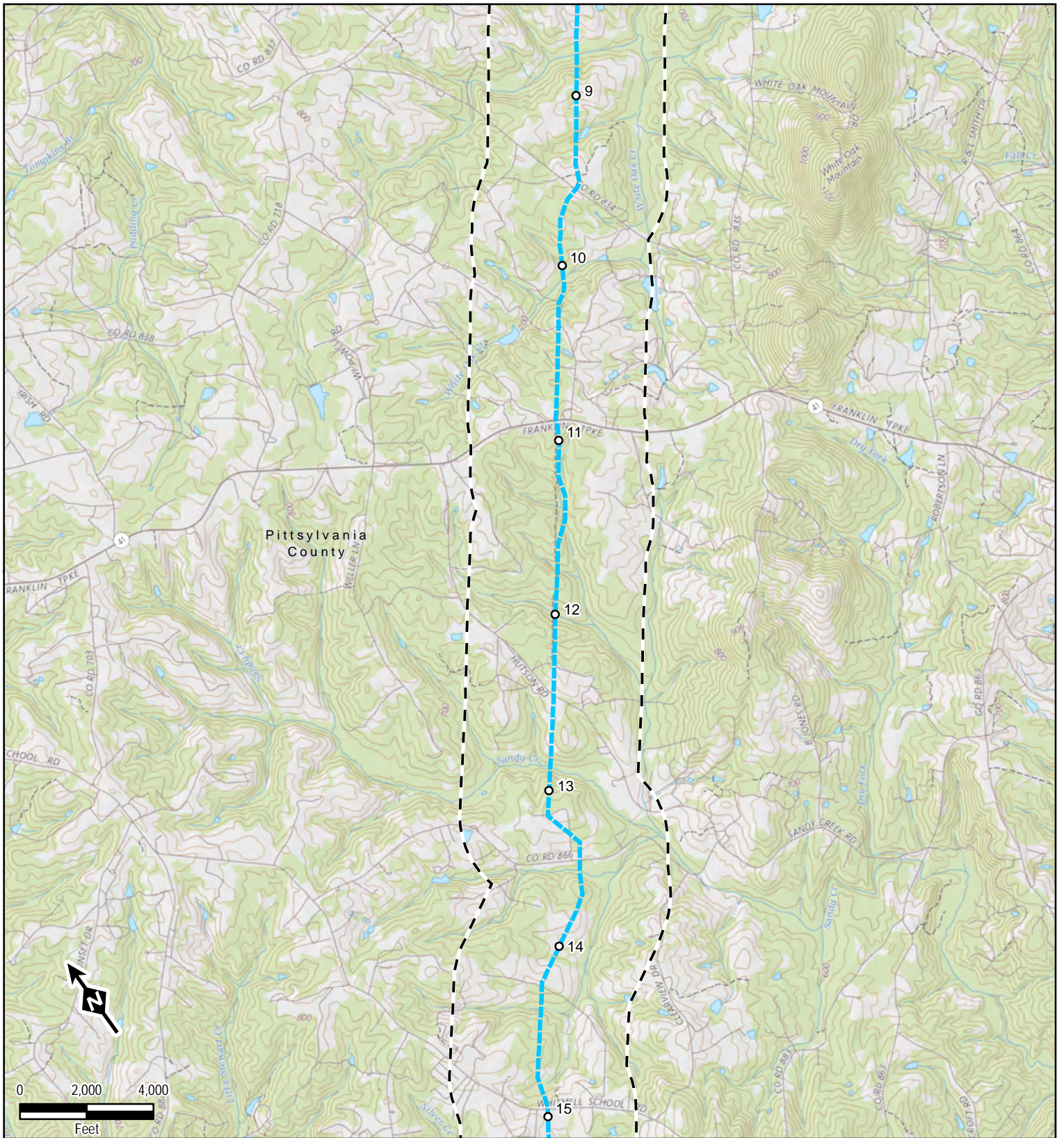
Virginia Facilities Map

Sheet 2 of 6

TRC
Results you can rely on

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Legend

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- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

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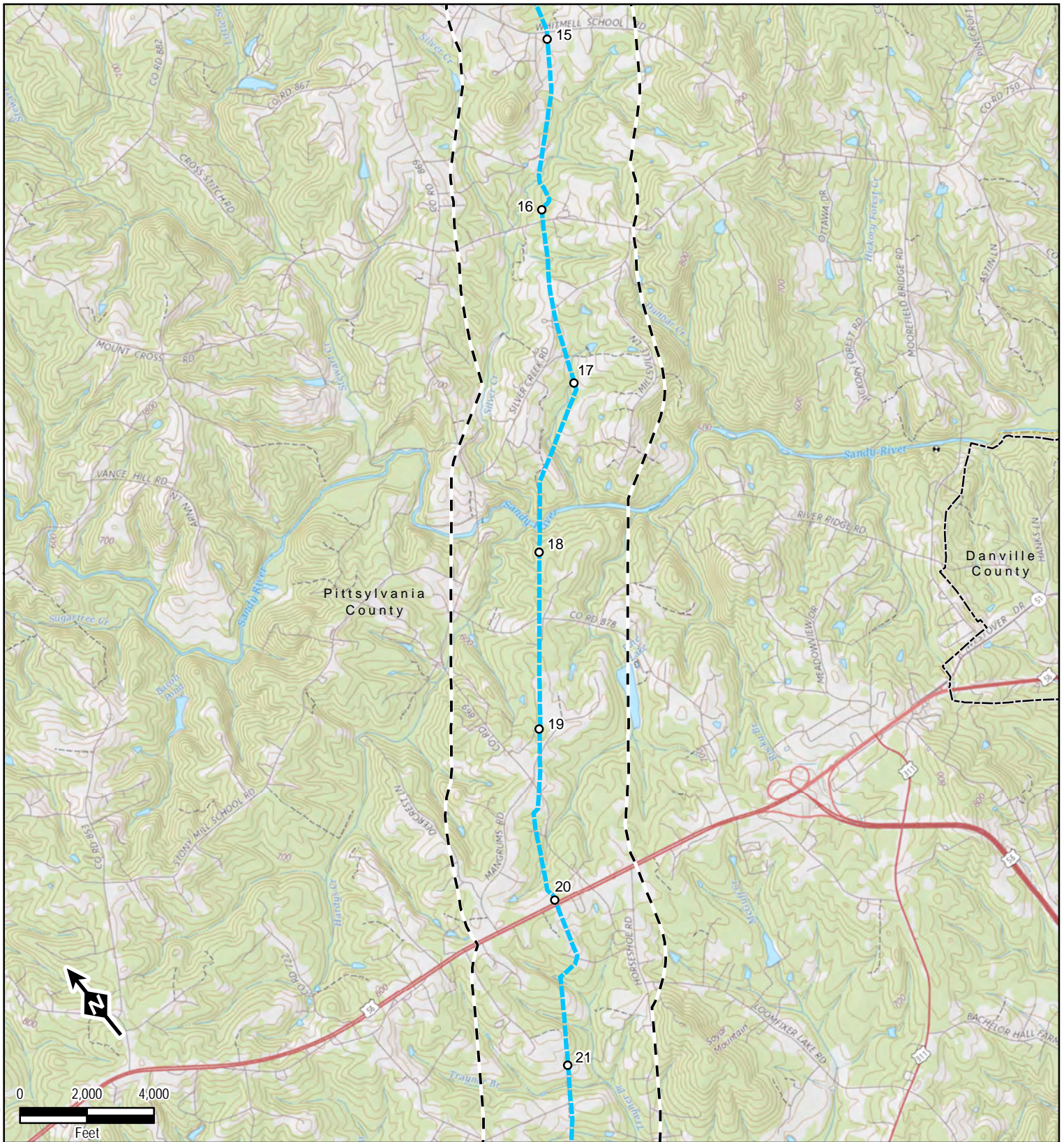


Virginia Facilities Map

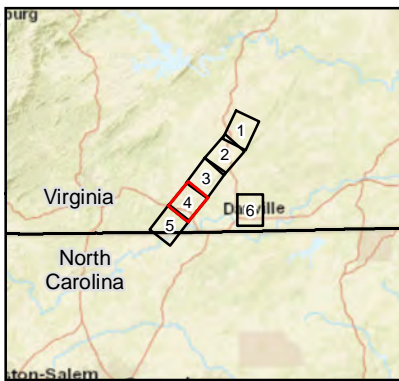
Sheet 3 of 6



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West Chester, PA 19382



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Legend

- Mileposts
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- ▭ State Boundary

Data Sources: ESRI, USGS, TRC, EQT

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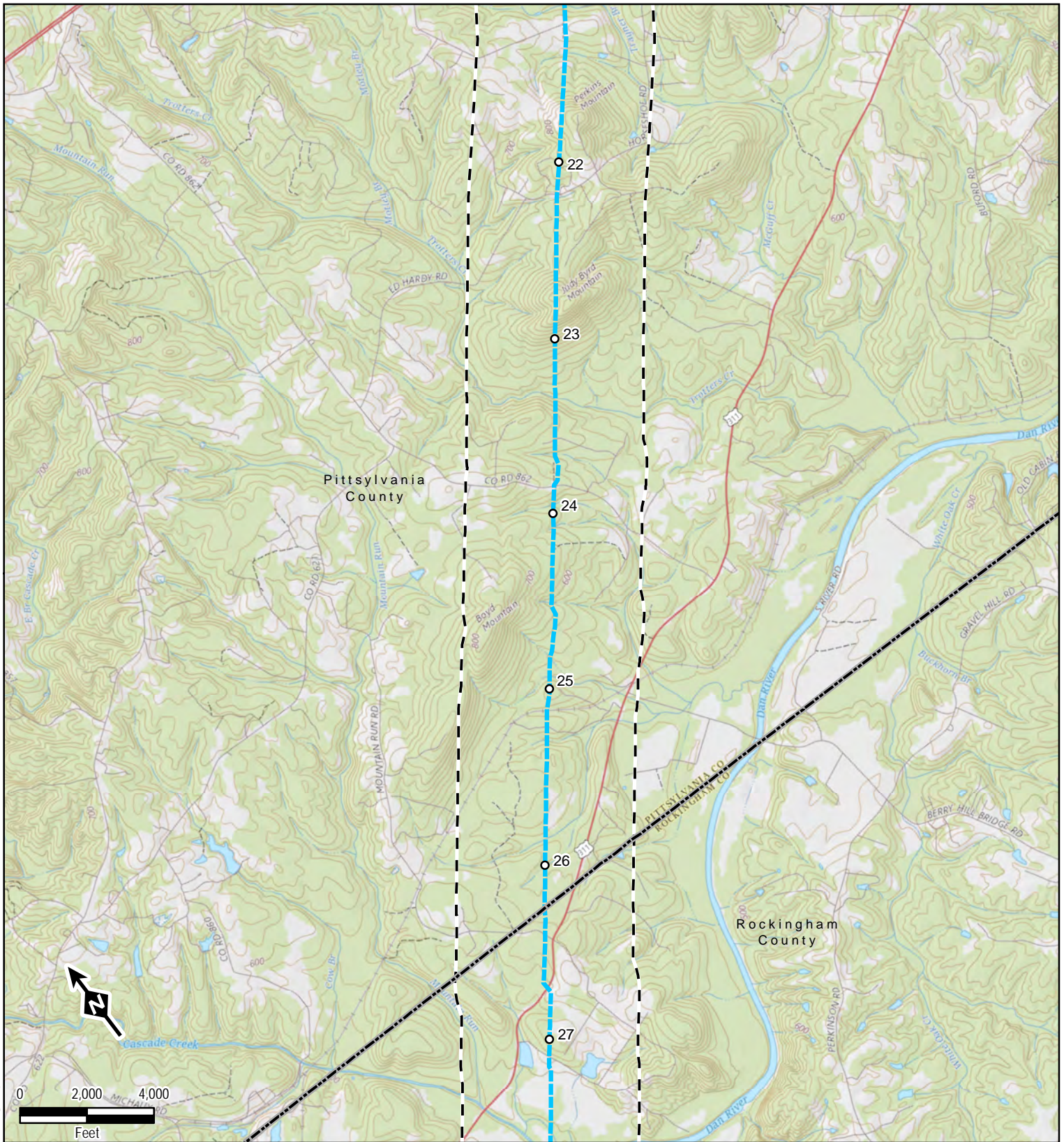


Virginia Facilities Map

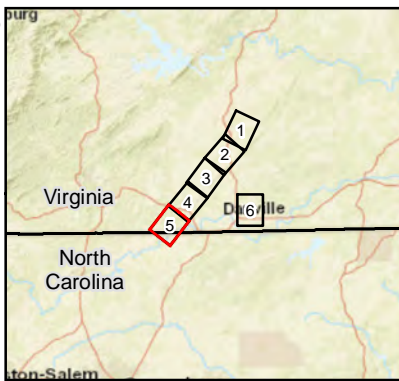
Sheet 4 of 6



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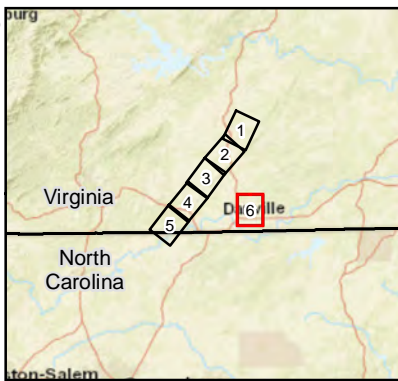
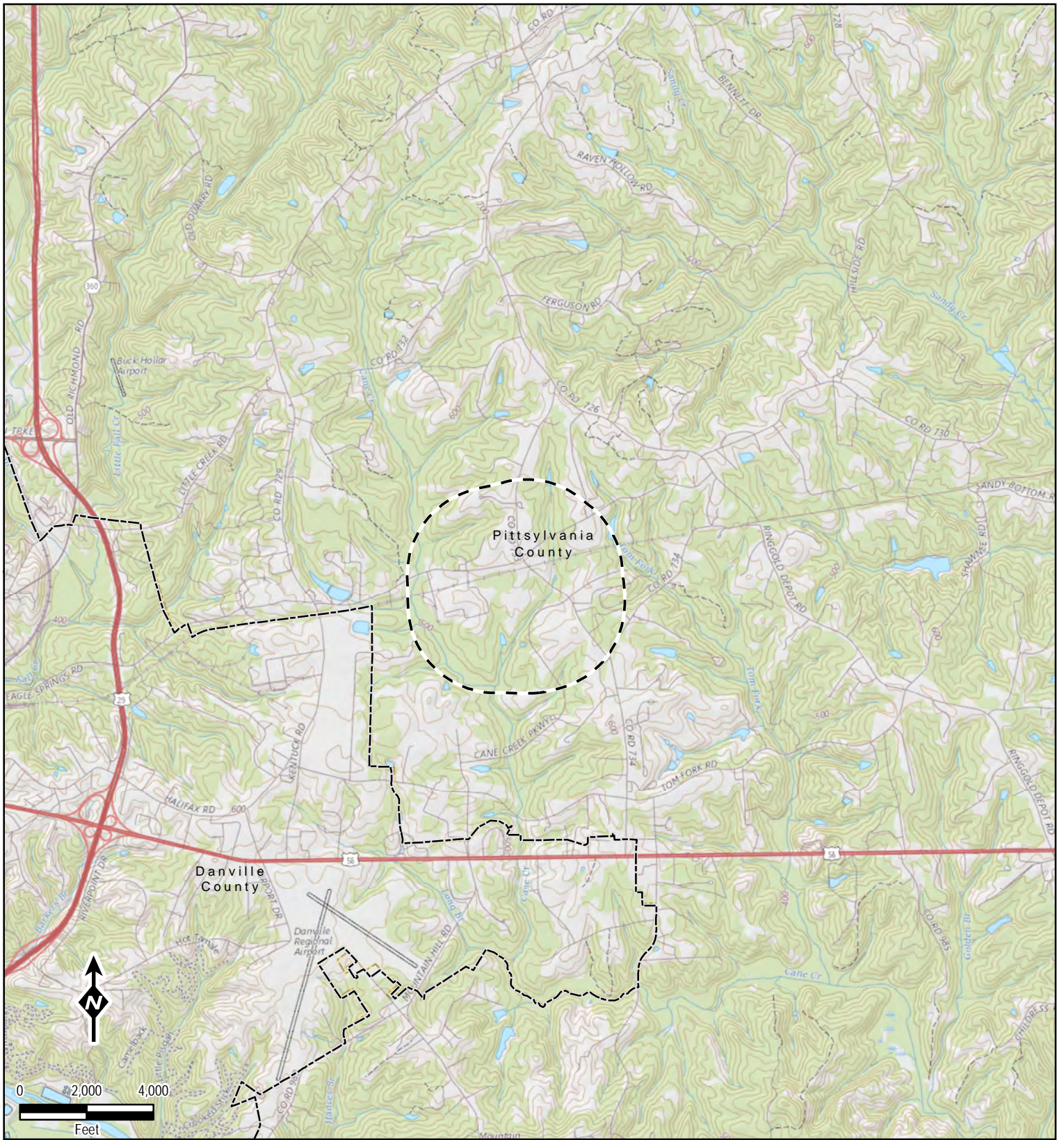


Virginia Facilities Map

Sheet 5 of 6



600 Willowbrook Ln
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Legend

- Mileposts
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- State Boundary

Data Sources: ESRI, USGS, TRC, EQT

1 inch = 4,000 feet
When Printed 8.5x11



Virginia Facilities Map

Sheet 6 of 6



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