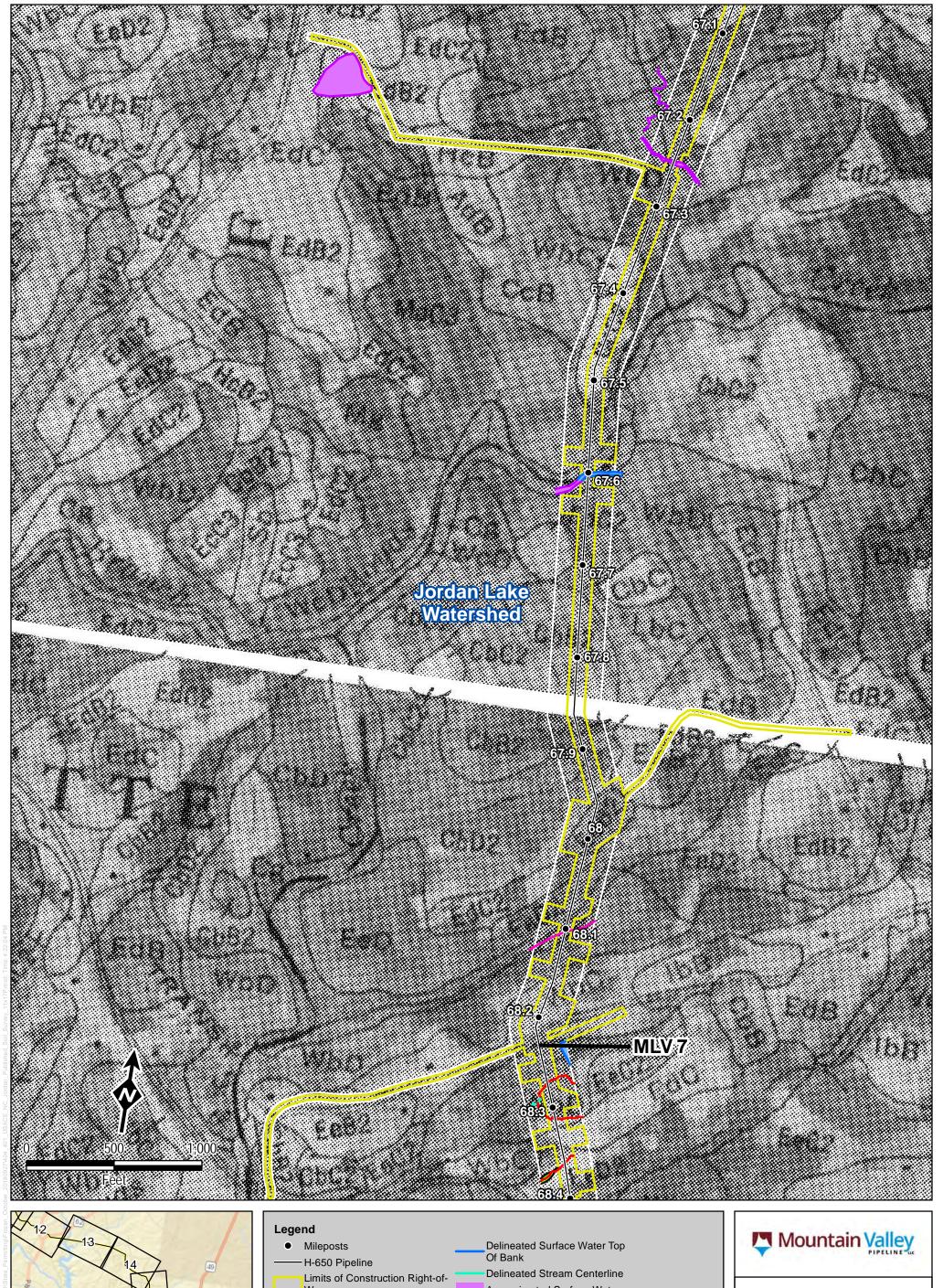
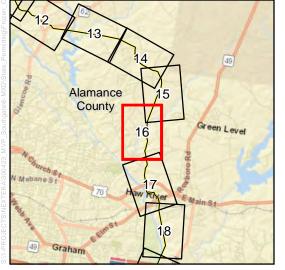
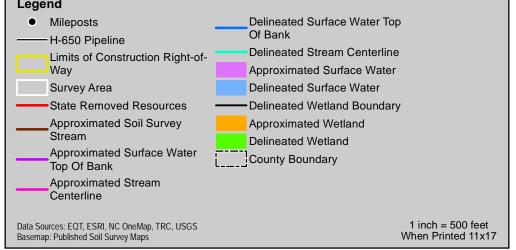
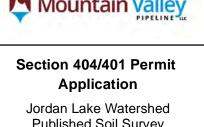


600 Willowbrook Ln West Chester, PA 19382





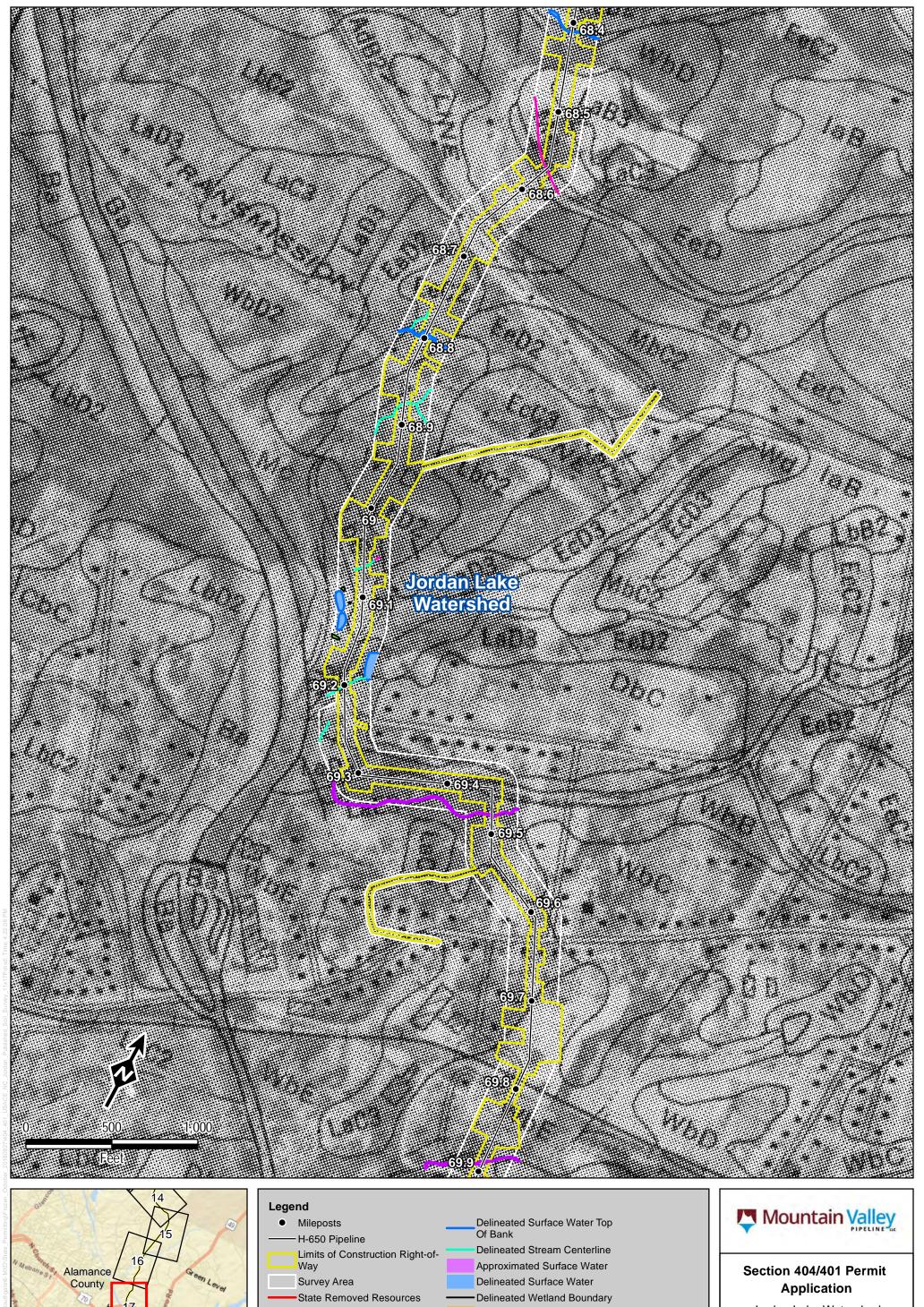


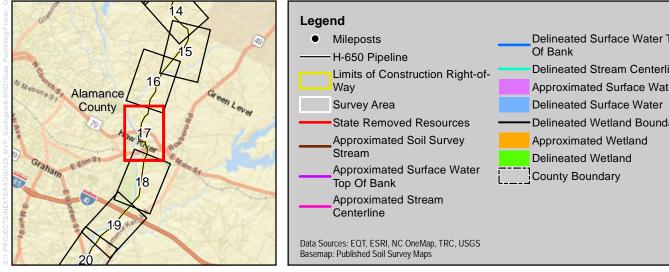


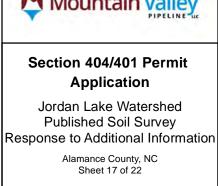
Jordan Lake Watershed
Published Soil Survey
Response to Additional Information

Alamance County, NC Sheet 16 of 22





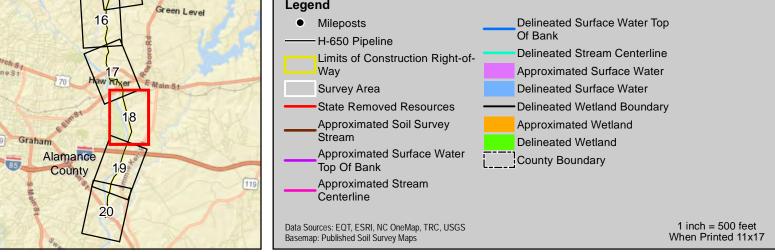


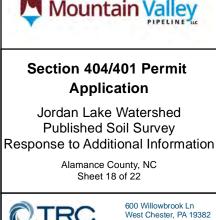


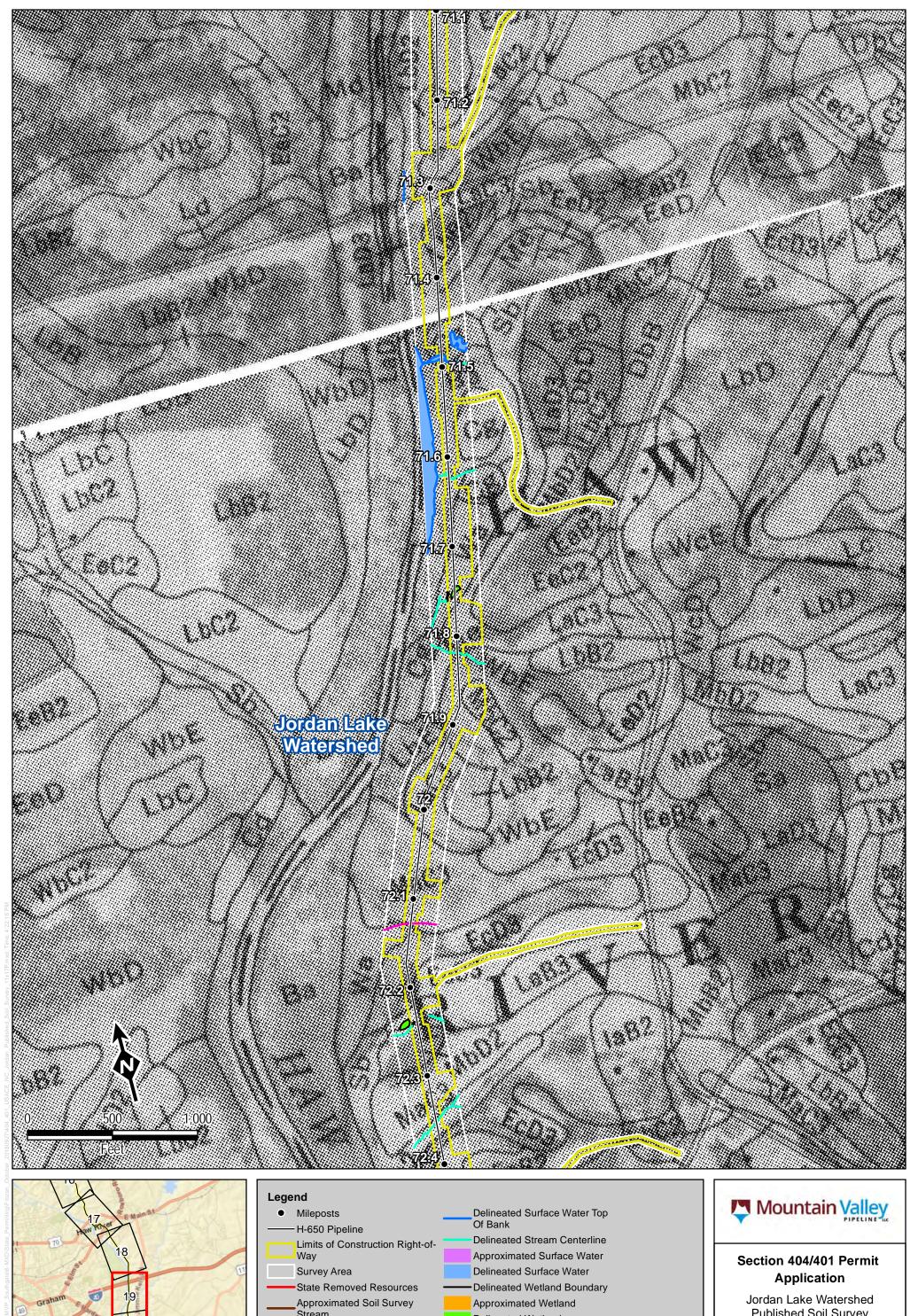


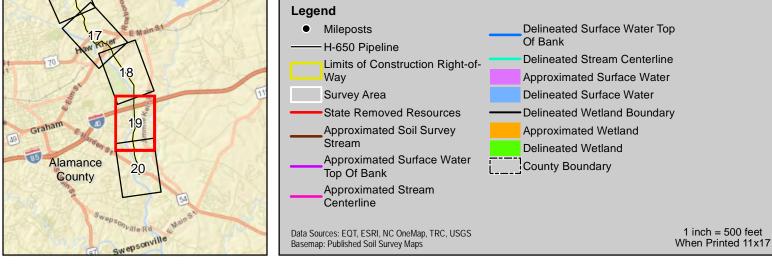
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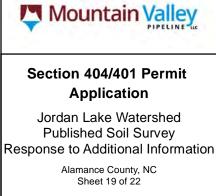




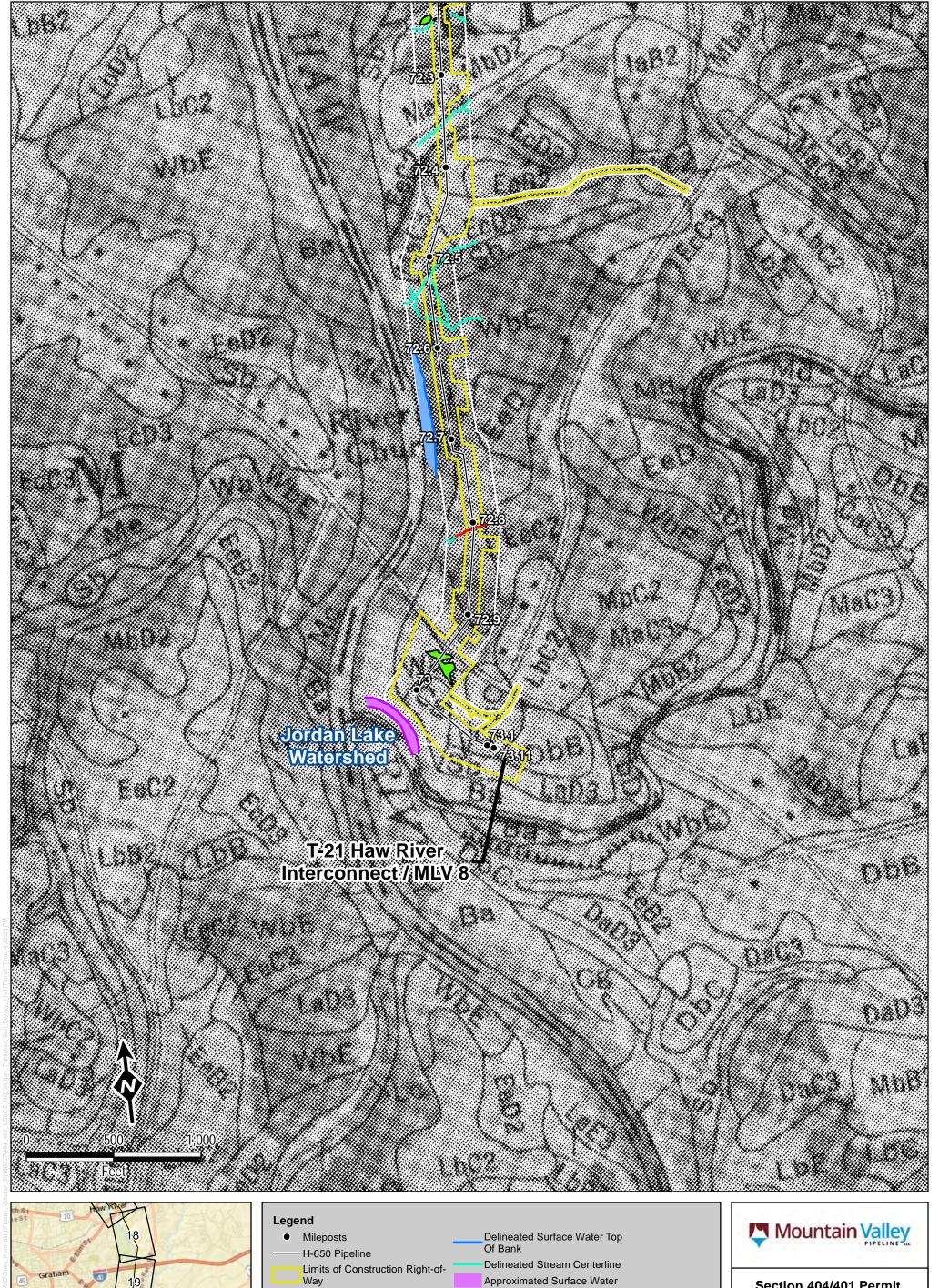


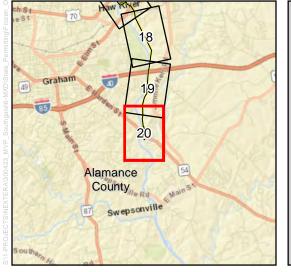


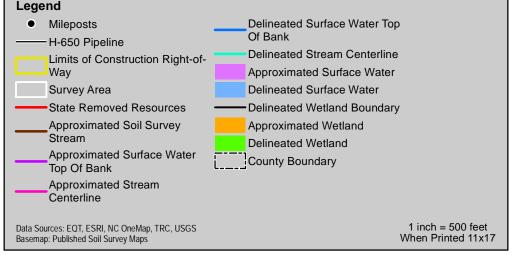


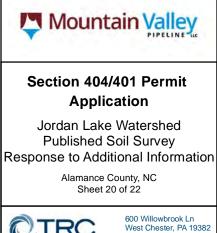


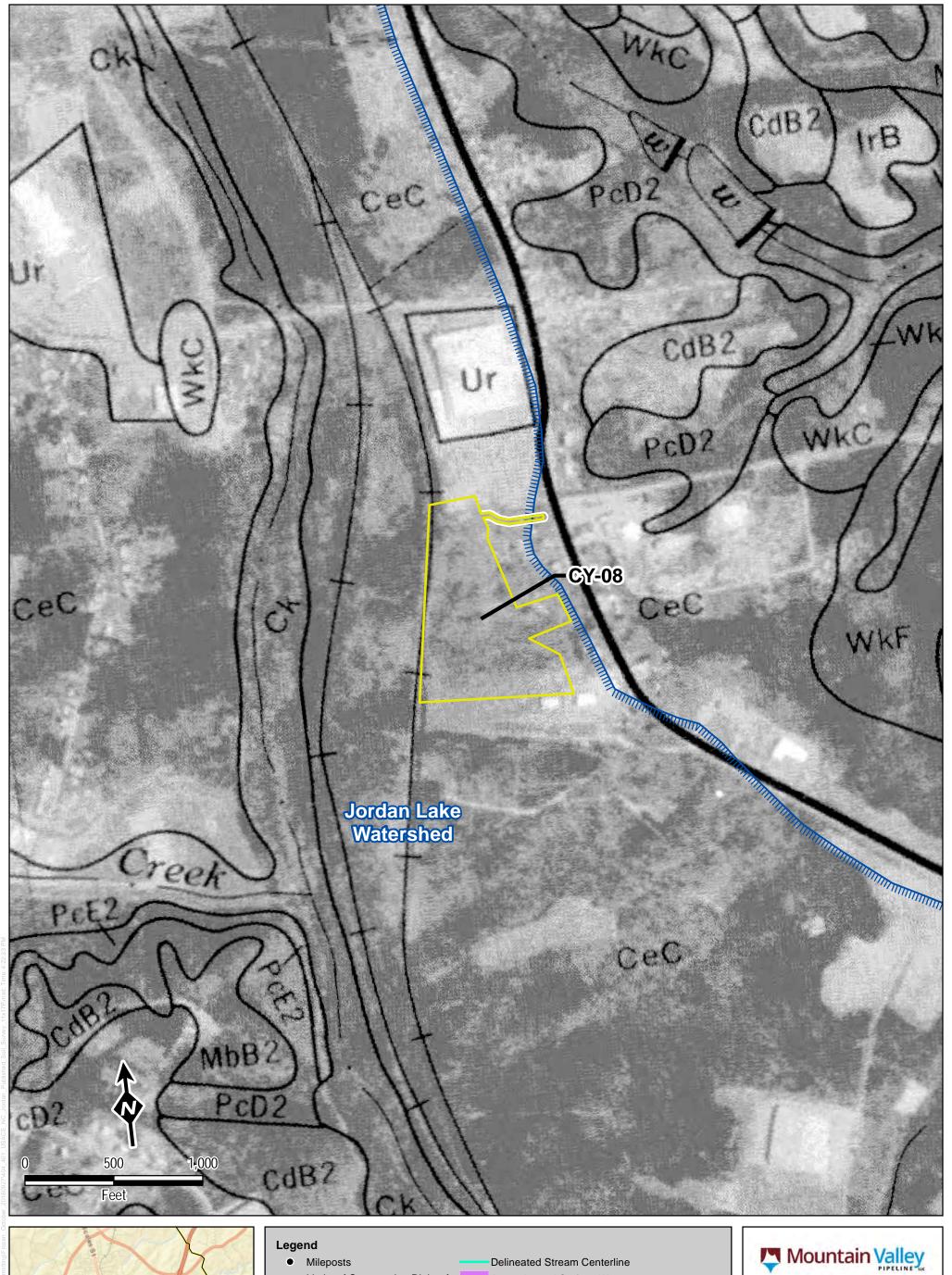
600 Willowbrook Ln West Chester, PA 19382

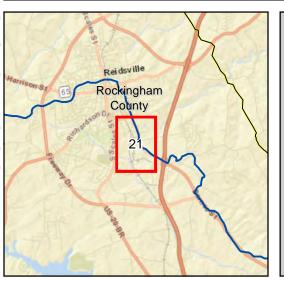


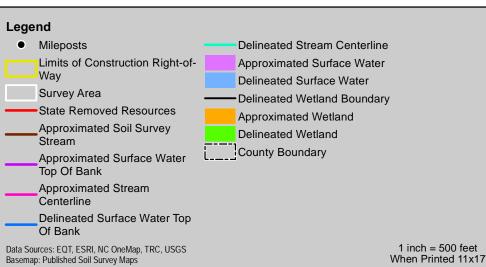












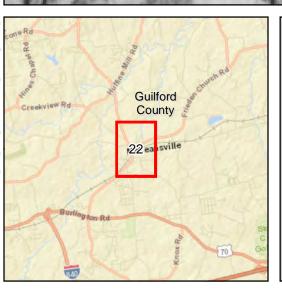
Section 404/401 Permit Application

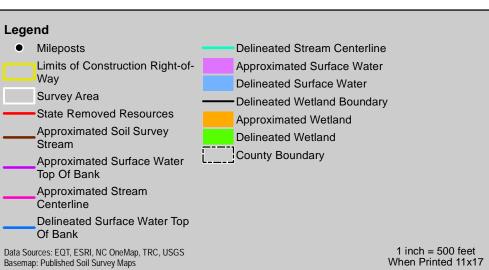
Jordan Lake Watershed Published Soil Survey Response to Additional Information

> Rockingham County, NC Sheet 21 of 22











Section 404/401 Permit Application

Jordan Lake Watershed Published Soil Survey Response to Additional Information

> Guilford County, NC Sheet 22 of 22

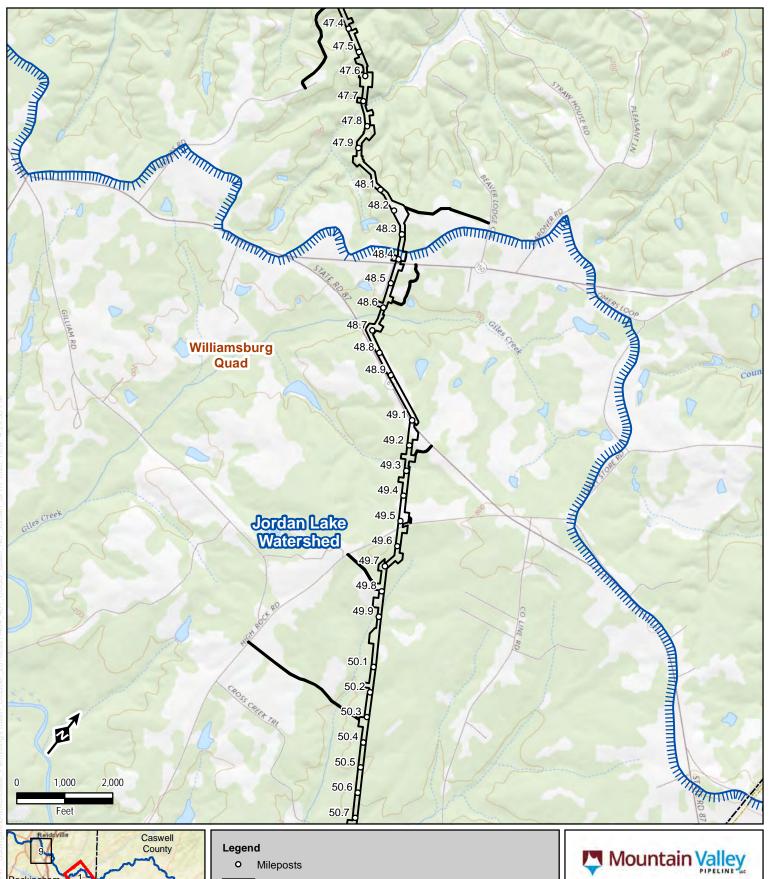


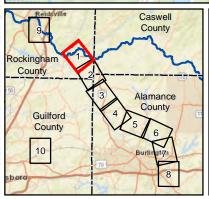


MVP Southgate Project

Attachment C Jordan Watershed USGS Topographic Maps

February 2019

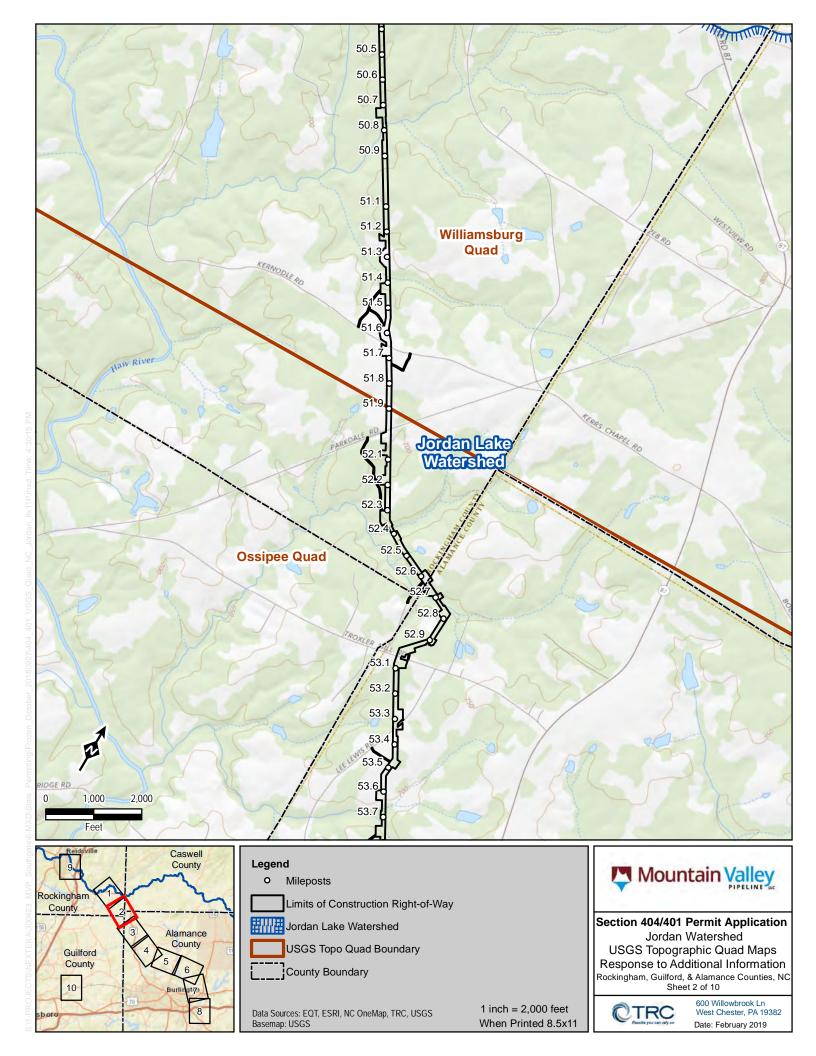


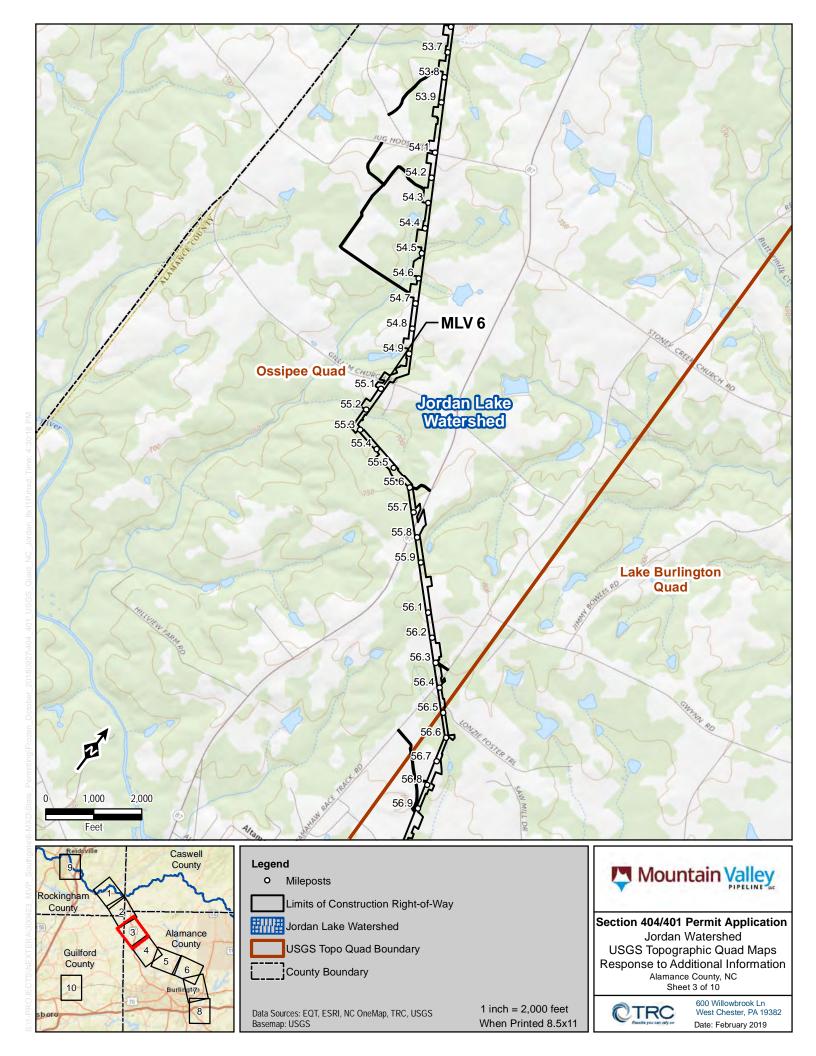


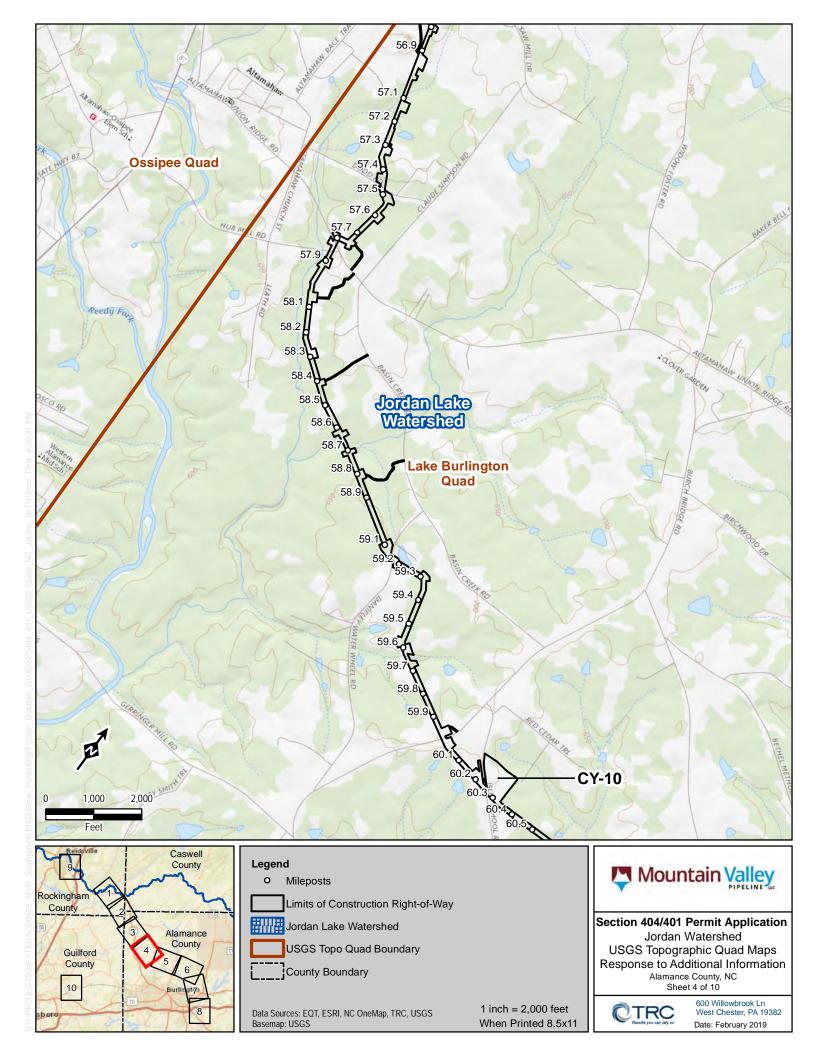
Legend O Mileposts Limits of Construction Right-of-Way Jordan Lake Watershed USGS Topo Quad Boundary County Boundary Data Sources: EOT, ESRI, NC OneMap, TRC, USGS Basemap: USGS 1 inch = 2,000 feet When Printed 8.5x11

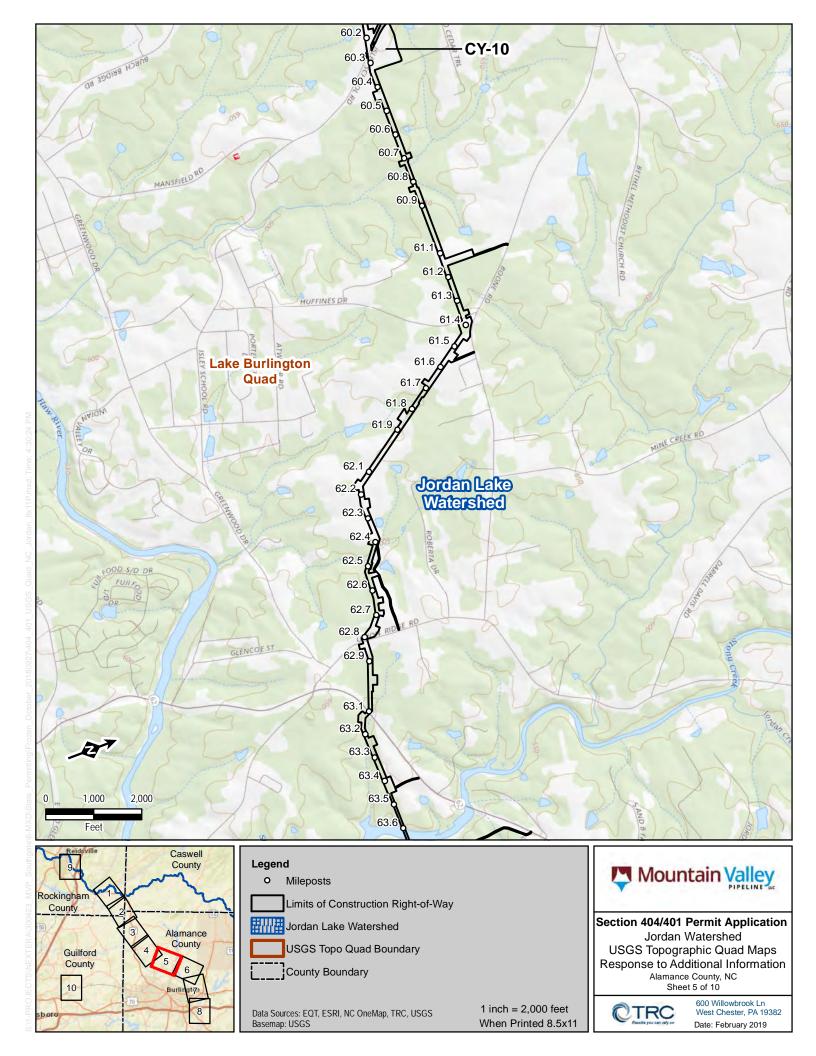
Section 404/401 Permit Application
Jordan Watershed
USGS Topographic Quad Maps
Response to Additional Information
Rockingham County, NC
Sheet 1 of 10

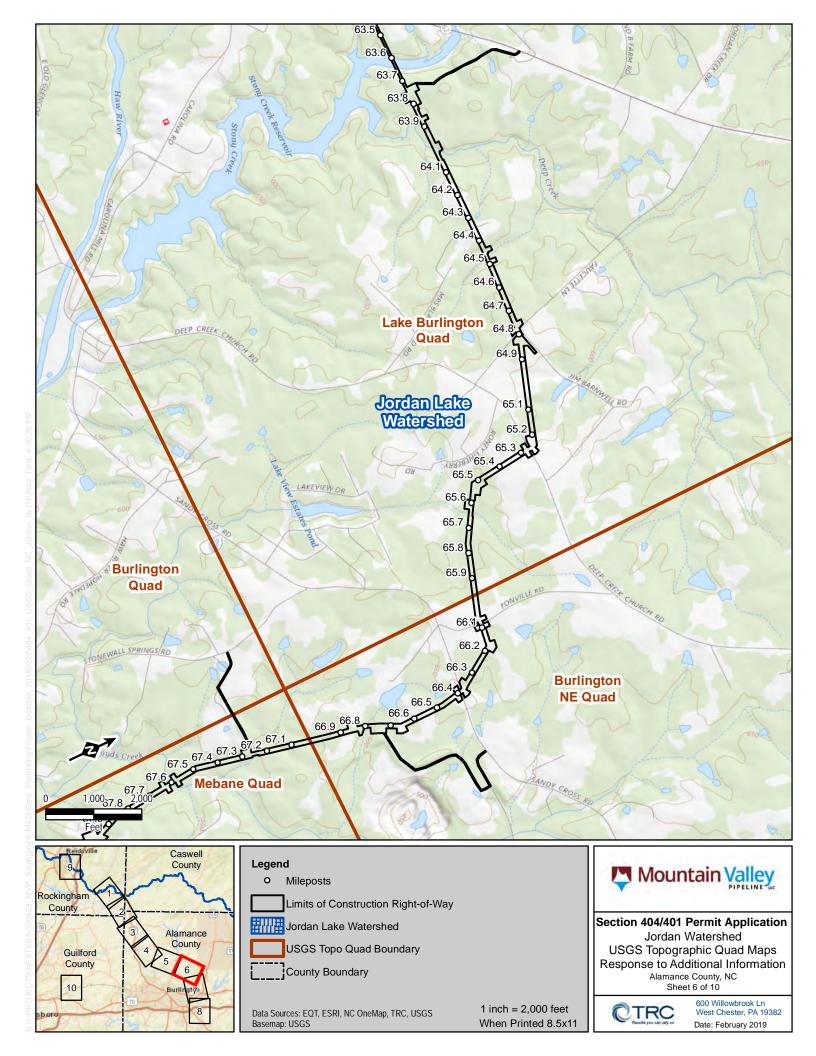


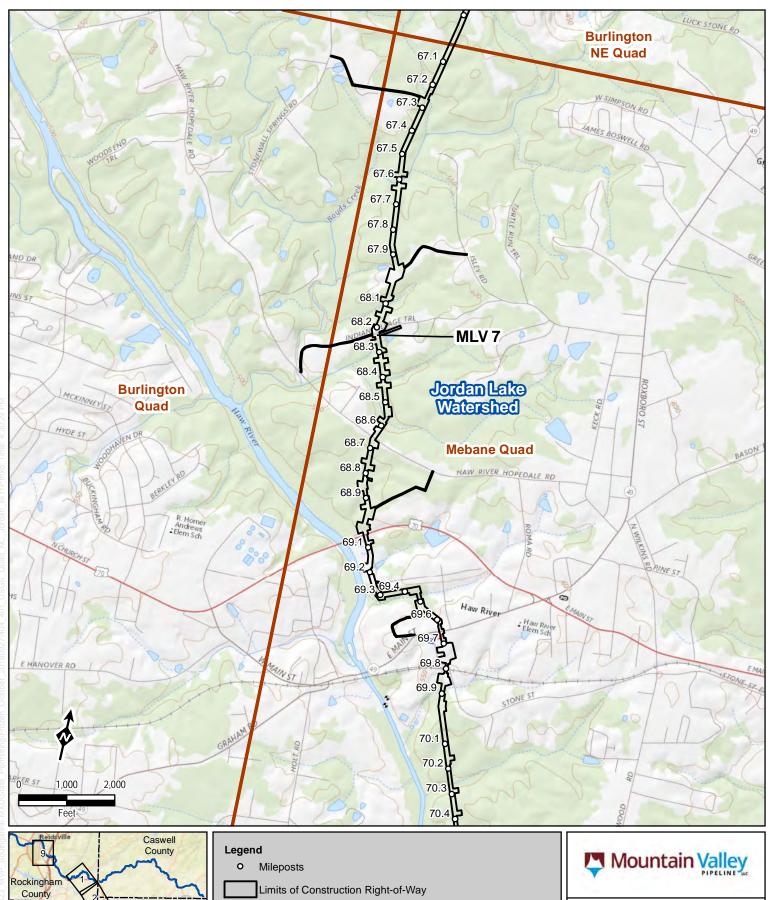


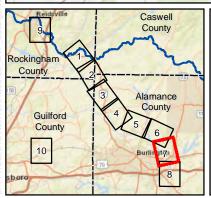








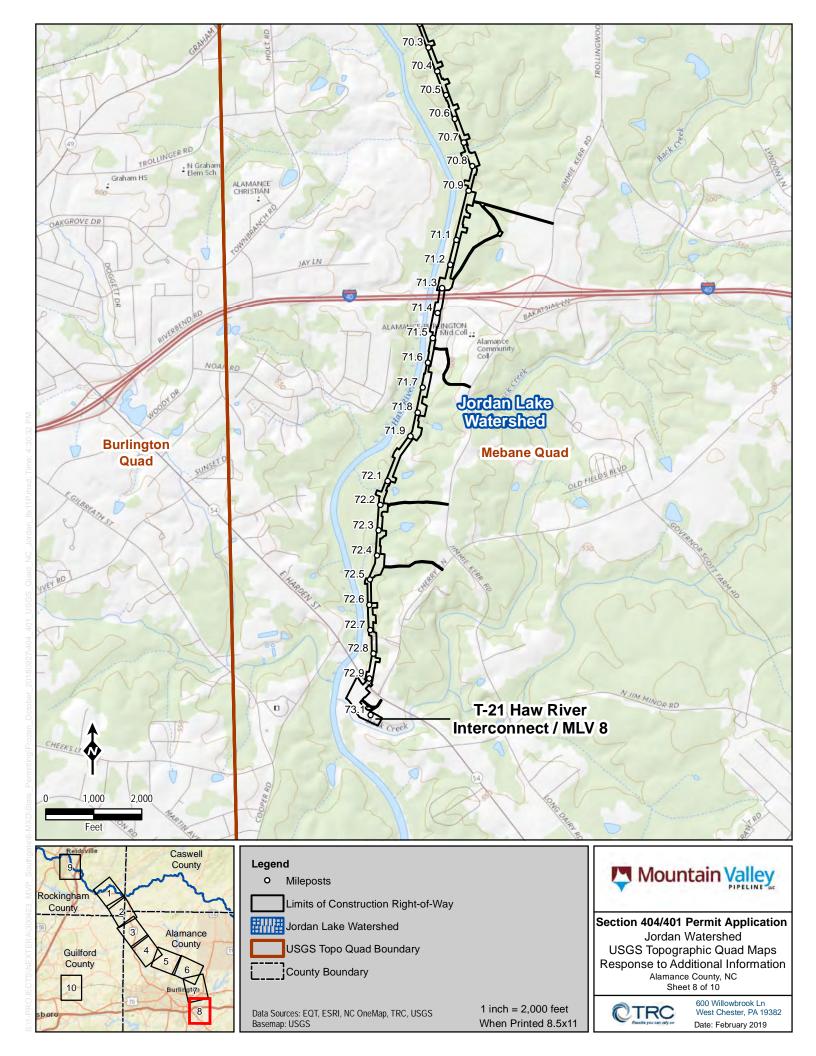


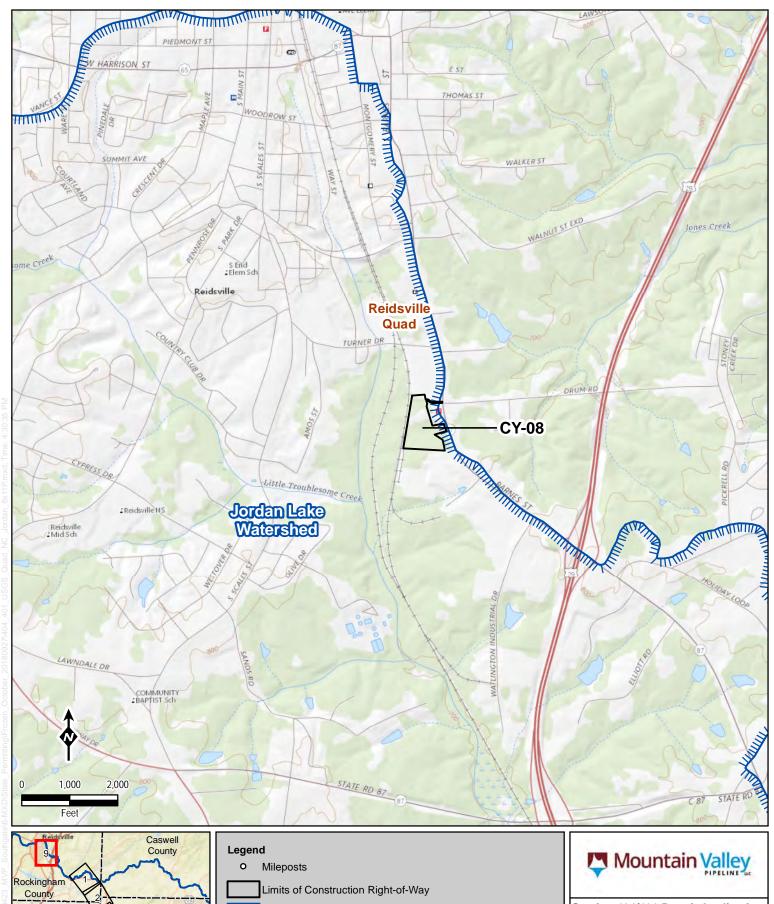


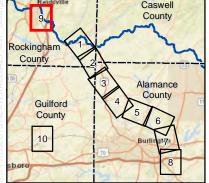
Legend O Mileposts Limits of Construction Right-of-Way Jordan Lake Watershed USGS Topo Quad Boundary County Boundary Data Sources: EQT, ESRI, NC OneMap, TRC, USGS Basemap: USGS 1 inch = 2,000 feet When Printed 8.5x11

Section 404/401 Permit Application Jordan Watershed USGS Topographic Quad Maps Response to Additional Information Alamance County, NC Sheet 7 of 10





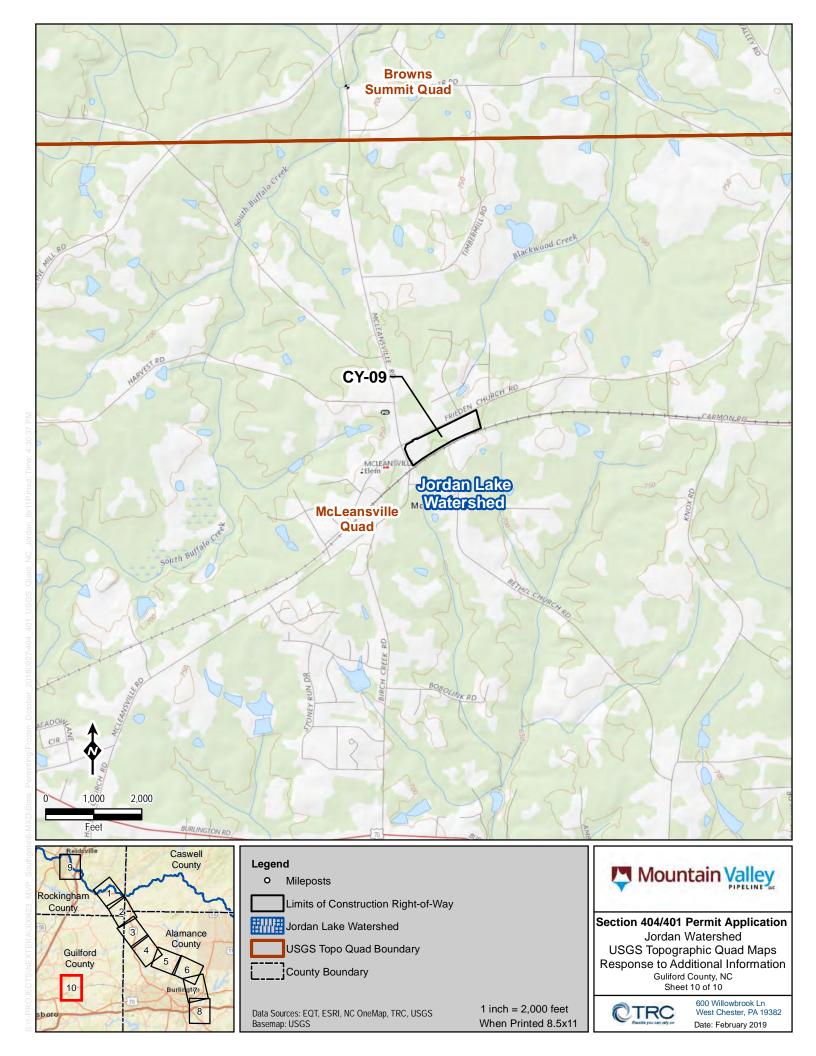




Legend O Mileposts Limits of Construction Right-of-Way Jordan Lake Watershed USGS Topo Quad Boundary County Boundary Data Sources: EQT, ESRI, NC OneMap, TRC, USGS Basemap: USGS 1 inch = 2,000 feet When Printed 8.5x11

Section 404/401 Permit Application Jordan Watershed USGS Topographic Quad Maps Response to Additional Information Rockingham County, NC Sheet 9 of 10







MVP Southgate Project

Attachment D
Mitigation Reserve Letters



Riparian Buffer Credits Statement of Availability Cape Fear 02 Jordan Lake - Haw River Subwatershed

January 31, 2019

Mountain Valley Pipeline LLC Attn: Matthew Raffenberg 700 Universe Blvd Juno Beach, FL 33408

RE: Availability of Riparian Buffer Credits for the "MVP Southgate, Rockingham and Alamance

Counties, NC" project

Bank Name: UT to Pine Hill Branch Nutrient Offset & Buffer Mitigation Bank

Bank Sponsor: Wildlands Holdings, IV, LLC

DWR Project Number: 2017-0886v2 Permittee: Mountain Valley Pipeline LLC

Riparian Buffer Credits Requested: 11.48 acres (500,000 sq. ft.) Riparian Buffer Credits Available: 3.31 acres (144,074 sq. ft.)

Cape Fear 03030002 River Basin

Dear Mr. Raffenberg:

Wildlands Holdings IV, LLC currently has sufficient riparian Buffer credits from the **UT to Pine Hill Branch Nutrient Offset & Buffer Mitigation Bank** to satisfy a large portion of the riparian buffer mitigation requirements related to the above-mentioned project (including the attached South Fork SOA). The project is located within the service area (HUC 03030002) of the Bank.

Please note: In the next several months, Wildlands Holdings IV, LLC anticipates receiving an additional 165,441 sq. ft in forthcoming credit releases for the UT to Pine Hill Branch Nutrient Offset & Buffer Mitigation Bank, which in addition to the attached South Fork SOA should provide enough credits to meet the entire need of this project.

This letter is simply a statement of availability of credits as of the date written. Although current inventory is high, the letter is not a guarantee of availability as credits will be sold on a first come, first serve basis. An invoice for this transaction will be sent upon your request and we will formally reserve both the credits and price quoted for a period of 30 days from the invoice at no cost.

Final transfer of the credits will be made upon receipt of a copy of the 401 Water Quality Certification Authorization Certificate from the NC Department of Environmental Quality approving the Riparian Buffer mitigation purchase from the Bank and upon receipt of your payment to Wildlands Holding III,



LLC. We will then issue a credit transfer certificate verifying your credit purchase to the North Carolina Division of Water Resources and to you for your records

We appreciate the opportunity to assist you with your mitigation requirements. Please contact me at 205-807-0800 or ihazelhoff@wildlandseng.com if you have any questions or need any additional information.

Sincerely,

Ian M. Hazelhoff

Wildlands Engineering, Inc.

Land Acquisition

ihazelhoff@wildlandseng.com

O: (704) 332-7754 ex. 120

M: (205) 807-0800

Cc: Kevin Martin, Soil and Environmental Consultants, PA



Riparian Buffer Credits Statement of Availability Cape Fear 02 Jordan Lake - Haw River Subwatershed

January 31, 2019

Mountain Valley Pipeline LLC Attn: Matthew Raffenberg 700 Universe Blvd Juno Beach, FL 33408

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LLC. We will then issue a credit transfer certificate verifying your credit purchase to the North Carolina Division of Water Resources and to you for your records

We appreciate the opportunity to assist you with your mitigation requirements. Please contact me at 205-807-0800 or ihazelhoff@wildlandseng.com if you have any questions or need any additional information.

Sincerely,

Ian M. Hazelhoff

Wildlands Engineering, Inc.

Land Acquisition

ihazelhoff@wildlandseng.com

O: (704) 332-7754 ex. 120

M: (205) 807-0800

Cc: Kevin Martin, Soil and Environmental Consultants, PA



Statement of Mitigation Credit Availability

February 1, 2019

Division of Water Resources

Re: Availability of Compensatory Riparian Buffer Credits

Project: MVP Southgate Project – Rockingham & Alamance Counties, NC

We are providing this letter in accordance with 33 CFR §332.8(r), to confirm that the below table of **Riparian Buffer Mitigation Credits** (Credits) from the listed banks (Banks) are currently available and may be used, once transferred, for compensatory mitigation relative to the **MVP Southgate** project, and as proposed by **Mountain Valley Pipeline**, **LLC** (Applicant).

Bank Name	Amount of Credits		
Bass Mountain	91,388.00		
Benton Branch	77,568.42		
Motes Creek	183,520.44		
Orphan Creek	63,943.40		
Rocky Top	54,353.93		
TOTAL	470,774.19		

The Applicant may ultimately purchase the Credits, if they are available, following Permit issuance. Should the Applicant purchase the Credits at that time, we will complete and execute the Compensatory Mitigation Responsibility Transfer Form (Transfer Form) within five (5) days of receipt of the full purchase price.

We will additionally provide copies of the completed and executed Transfer Form to the Applicant and, if needed, other regulatory agencies. Transaction information in the updated Bank Ledger will include relevant Permit and Applicant information as well as the number and resource type of the debited Credits.

Should your office have any questions, please contact me at 919.334.9123.

Sincerely,

Tiffani Bylow

Restoration Systems, LLC

Hamberg, Alexis

From: Miller, Alex

Sent: Thursday, January 3, 2019 12:37 PM

To:sue.white@ncdenr.govSubject:MVP Southgate Route

Attachments: MVP_Southgate_FERC Filing Route_11.6.2018.kmz

Hello Ms. White,

Thank you for reaching out to me this afternoon. Attached is a kmz file so you can review the currently proposed route of the MVP Southgate Project. This is FERC regulated project so they will ultimately decide the pipeline route if the project is approved. I will add you to our stakeholder list so that you will be updated with project changes. The only reservoir that we currently go under is Stony Creek Reservoir around MP 63. Additional information can be found on our website: www.mvpsouthgate.com.

Please confirm you were able to load the route and feel free to reach out to me again with any questions you might have.

Regards,

Alex V. Miller
Environmental Permitting Lead
on behalf of Mountain Valley Pipeline, LLC
713-374-1599



From: Homewood, Sue [mailto:sue.homewood@ncdenr.gov]

Sent: Tuesday, December 11, 2018 11:20 AM To: Kevin Martin < kmartin@sandec.com >

Cc: Higgins, Karen < karen.higgins@ncdenr.gov >

Subject: RE: [External] perpendicular

Hello Kevin,

That's an accurate representation of how I've calculated the angle for "perpendicular crossings" for utility lines and transportation facilities.

Thanks,

Sue Homewood Division of Water Resources, Winston Salem Regional Office Department of Environmental Quality

336 776 9693 office 336 813 1863 mobile Sue.Homewood@ncdenr.gov

450 W. Hanes Mill Rd, Suite 300 Winston Salem NC 27105

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

-----Original Message-----

From: Kevin Martin kmartin@sandec.com Sent: Monday, December 10, 2018 5:13 PM

To: Homewood, Sue <sue.homewood@ncdenr.gov>

Subject: [External] perpendicular

From: Homewood, Sue [mailto:sue.homewood@ncdenr.gov]

Sent: Thursday, January 3, 2019 8:22 AM
To: Kevin Martin < kmartin@sandec.com >
Cc: Higgins, Karen < karen.higgins@ncdenr.gov >
Subject: RE: [External] variance exhibits for variance

Hello Kevin,

We agree.

Thanks,

Sue Homewood
Division of Water Resources, Winston Salem Regional Office
Department of Environmental Quality

336 776 9693 office 336 813 1863 mobile Sue.Homewood@ncdenr.gov

450 W. Hanes Mill Rd, Suite 300 Winston Salem NC 27105

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From: Kevin Martin < kmartin@sandec.com>
Sent: Wednesday, January 2, 2019 3:48 PM

To: Homewood, Sue <<u>sue.homewood@ncdenr.gov</u>>; Higgins, Karen <<u>karen.higgins@ncdenr.gov</u>>

Subject: [External] variance exhibits for variance

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Do you all agree that for the variance MVP Southgate, only the crossings that require a variance should be submitted for the variance package (not all the others)? If all are shown I am afraid it will cause confusion. They will show all crossings on an overall map that individually indicates the ones that are before the EMC for a variance. thanks

Kevin C. Martin
Principal
Soil & Environmental Consultants, PA
North Quarter Office Park

8412 Falls of Neuse Road, Suite 104 Raleigh, NC 27615 (919) 846-5900 Office Phone (919) 846-9467 Fax (919) 270-7941 Mobile kmartin@sandec.com
Visit us at SandEC.com!

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Sue, does this sketch appear to demonstrate the approach you have used when determining if a crossing is perpendicular (between 75 and 105 degrees)? I think so just want to be sure I understood correctly. Thanks

Kevin C. Martin
Principal
Soil & Environmental Consultants, PA
North Quarter Office Park
8412 Falls of Neuse Road, Suite 104
Raleigh, NC 27615
(919) 846-5900 Office Phone
(919) 846-9467 Fax
(919) 270-7941 Mobile
kmartin@sandec.com
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Contact Report for Sue Homewood

Contact ID 594		
Contact Status	Completed	
Priority Level	Medium	
Contact Date	01/10/2019	
Type of Contact	Email	
Type of Issue	No Issues were indentified with this contact	
Issue Comments	Hi Karen and Sue, Do you have time to discuss with a few of us our understanding of the Jordan variance process and application next week? We are currently running through some different scenarios and need some clarification on our interpretations. Please let me know if there is an hour next week that we can get together via Skype and look at some mapping. Thank you for your time, Alex Alex V. Miller Environmental Permitting Lead on behalf of Mountain Valley Pipeline, LLC 713-374-1599 [MVP Southgate Official Image - re-sized]	
Contacted By	N/A	
Attachments	There are no files attached to this contact.	
There are no followups for this contact.		

Hamberg, Alexis

From: Miller, Alex

Sent: Friday, February 1, 2019 3:14 PM

To: Hamberg, Alexis

Subject: FW: [External] Jordan buffer question

Please log

From: Homewood, Sue [mailto:sue.homewood@ncdenr.gov]

Sent: Wednesday, January 30, 2019 4:37 PM

To: Kevin Martin < kmartin@sandec.com >

Cc: Higgins, Karen < karen.higgins@ncdenr.gov >

Subject: RE: [External] Jordan buffer question

Hello Kevin,

Good catch, for some reason I had thought that Session Law was specific to sewer lines but it appears to apply to gas utility lines in Zone 2 also. Also, In reading Footnote #4 again, since it states that "If all of these BMPs are not used, then the underground utility line shall require a no practical alternative evaluation by the local government, as defined in Item (11) of this Rule." We do not believe that Footnote 4 would require a variance. So only Zone 1 impacts that cannot meet Footnote #1 would trigger the variance.

Thanks,

Sue Homewood

Division of Water Resources, Winston Salem Regional Office

Department of Environmental Quality

336 776 9693 office

336 813 1863 mobile

Sue.Homewood@ncdenr.gov

450 W. Hanes Mill Rd, Suite 300

Winston Salem NC 27105

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From: Kevin Martin < <u>kmartin@sandec.com</u>>

Sent: Wednesday, January 30, 2019 11:47 AM

To: Homewood, Sue <sue.homewood@ncdenr.gov>

Cc: Higgins, Karen <karen.higgins@ncdenr.gov>

Subject: [External] Jordan buffer question

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Karen and Sue, more info on my zone 2 no mitigation and not requiring a variance question, in addition to the rules it is also based on the Jordan Lake Rules session law that states: SECTION 2.(b) Protection of Existing Riparian Buffers Rule. — Until the effective date of the revised permanent rule that the Commission is required to adopt pursuant to Section 2(d) of this act, the Commission and the Department shall implement the Protection of Existing Riparian Buffers Rule as provided in Section 2(c) of this act. SECTION 2.(c) Implementation. — The Protection of Existing Riparian Buffers Rule shall be implemented as follows: (1) Notwithstanding the Table of Uses set out in subdivision (9) of the Protection of Existing Riparian Buffers Rule, utility, nonelectric, other than perpendicular crossings that have impacts only in Zone Two shall be categorized as exempt

Kevin C. Martin

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From: Kevin Martin

Sent: Wednesday, January 30, 2019 6:58 AM

To: Homewood, Sue < sue.homewood@ncdenr.gov>

Cc: Higgins, Karen <karen.higgins@ncdenr.gov>

Subject: Jordan buffer question

Sue sorry but I am still confused, did you agree nonperpendicular zone 2 only crossings do not require a variance and do not require mitigation? Because I realize that the #4 footnote applies to all non perpendicular crossings but from a practical point I thought footnote 4 only applied to how you worked in Zone one since it specifically says

4

Provided that, in Zone One, all of the following BMPs for underground utility lines are used. If all

of these BMPs are not used, then the underground utility line shall require a no practical alternative evaluation by the local government, as defined in Item (11) of this Rule.

Woody vegetation shall be cleared by hand. No land grubbing or grading is allowed.

Vegetative root systems shall be left intact to maintain the integrity of the soil. Stumps shall remain, except in the trench where trees are cut.

Underground cables shall be installed by vibratory plow or trenching.

.

The trench shall be backfilled with the excavated soil material immediately following cable installation.

.

No fertilizer shall be used other than a one-time application to re-establish vegetation.

•

Construction activities shall minimize the removal of woody vegetation, the extent of the disturbed area, and the time in which areas remain in a disturbed state.

.

Measures shall be taken upon completion of construction and during routine maintenance to ensure diffuse flow of stormwater through the buffer.

•

In wetlands, mats shall be utilized to minimize soil disturbance.

Kevin C. Martin

Principal

Soil & Environmental Consultants, PA
North Quarter Office Park
8412 Falls of Neuse Road, Suite 104
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From: Homewood, Sue [mailto:sue.homewood@ncdenr.gov]

Sent: Tuesday, January 29, 2019 9:06 PM

To: Kevin Martin < kmartin@sandec.com >

Cc: Higgins, Karen < karen.higgins@ncdenr.gov >

Subject: Re: [External] Jordan buffer question

Footnote 4 applies to all "other than perpendicular crossings". Footnote 1 applies to zone 1 only impacts.

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Kevin Martin < kmartin@sandec.com >

Date: 1/29/19 5:55 PM (GMT-05:00)

To: "Homewood, Sue" < sue.homewood@ncdenr.gov>

Cc: "Higgins, Karen" < karen.higgins@ncdenr.gov>

Subject: RE: [External] Jordan buffer question

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Thanks for the quick reply, so to be sure I am following this, a parallel impact in zone 2 is "Allowable" and does not require a variance or mitigation since the footnotes triggering the variance apply to what is happening in Zone 1. But a parallel impact in Zone 1 does require a variance because we have been told the proposed pipeline project cannot comply with all the conditions in footnote 4, Correct?

Kevin C. Martin

Principal

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From: Homewood, Sue [mailto:sue.homewood@ncdenr.gov]

Sent: Tuesday, January 29, 2019 5:32 PM

To: Kevin Martin < kmartin@sandec.com >

Cc: Higgins, Karen < <u>karen.higgins@ncdenr.gov</u>>

Subject: RE: [External] Jordan buffer question

Kevin,

Please see our response below in red text.

Thanks,

Sue Homewood

Division of Water Resources, Winston Salem Regional Office

Department of Environmental Quality

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Winston Salem NC 27105

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From: Kevin Martin < kmartin@sandec.com >

Sent: Tuesday, January 29, 2019 4:04 PM

To: Homewood, Sue < sue.homewood@ncdenr.gov; Higgins, Karen < karen.higgins@ncdenr.gov>

Subject: [External] Jordan buffer question

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Sue & Karen, I am dealing with a few crossings on the MVP project and want to be sure how to deal with a couple situations where there is no crossing of the stream but there is a parallel impact to the stream buffer, so here is my take please advise if you agree. I understand, like everything else you may have to run this by others.

If impacts just zone 2 and the area is revegetated I think it is exempt and should not require mitigation since it is clearing and grading in Zone 2,

This question has come up before and where a specific use is called out in the Table of Uses then the activity would fall under that use. In this case, gas line activities fall under the "utility, non-electric" category within the Table of Uses, not just clearing and grading in Zone 2. The allowances within Zone 1 and Zone 2 are spelled out specifically under this use.

Use	Exempt*	Allowable*	Allowable with Mitigation*
Utility, non-electric, perpendicular crossings of other surface waters subject to this Rule ^{3,5} : • Disturb equal to or less than 40 lin	near feet of X		
 riparian buffer with a maintenance conto or less than 10 feet in width Disturb equal to or less than 40 ling riparian buffer with a maintenance conto than 10 feet in width 	near feet of	x	
Disturb greater than 40 linear feet but less than 150 linear feet of riparian b maintenance corridor equal to or less in width	uffer with a	x	
 Disturb greater than 40 linear feet but less than 150 linear feet of riparian b maintenance corridor greater than 10 th 	uffer with a		x
 Disturb greater than 150 linear feet buffer 	of riparian		х
Utility, non-electric, other than perpendicular electric in Zone Two Impacts in Zone One ¹	crossings ^{4,5} :	x	x

But for Zone 1 in my experience, some agents of the state say any impact to the Zone 1 buffer even if you do not cross the stream is a crossing while others contend if it does not cross the stream it is not a crossing.

Perpendicular crossings are defined within the Table of Uses (footnote 5).

All other utility, non-electric impacts would fall under "other than perpendicular crossings". This is different than some of the other buffer rules that list out "perpendicular" and "parallel"; Jordan lists "perpendicular" and "non-perpendicular".

Bottom line in either interpretation it would either not qualify with the footnotes for zone 1 impacts if it is a crossing and if it is not a crossing, parallel impacts to Zone 1 do not appear in the table of uses so it is prohibited and requires a variance. Thanks again for your help

⁵ Perpendicular crossings are those that intersect the surface water at an angle between 7 105 degrees.

Kevin C. Martin

Principal

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