



625 Liberty Avenue, Suite 2000 | Pittsburgh, PA 15222
844-MVP-TALK | mail@mountainvalleypipeline.info
www.mountainvalleypipeline.info

March 28, 2019

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Re: Mountain Valley Pipeline, LLC
Docket No. CP16-10-000
Variance Request Nos. A-32, A-45, A-46, A-48,
and A-49

Dear Ms. Bose:

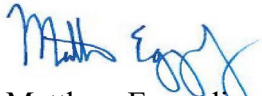
On October 13, 2017, the Federal Energy Regulatory Commission issued an order granting a Certificate of Public Convenience and Necessity to Mountain Valley Pipeline, LLC. In this filing, Mountain Valley submits Variance Request Nos. A-32, A-45, A-46, A-48 and A-49.

Certain of the supporting materials contain privileged and confidential information. Mountain Valley requests that, pursuant to 18 C.F.R. § 388.11 (2018), the Commission treat these materials as non-public. Mountain Valley has marked the documents "CUI//PRIV – DO NOT RELEASE."

If you have any questions, please do not hesitate to contact me at (412) 553-5786 or MEggerding@equitransmidstream.com. Thank you.

Respectfully submitted,

MOUNTAIN VALLEY PIPELINE, LLC
by and through its operator,
EQM Gathering Opco, LLC

By: 
Matthew Eggerding
Assistant General Counsel

cc: All Parties
Paul Friedman, OEP
Lavinia DiSanto, Cardno, Inc.
Doug Mooneyhan, Cardno, Inc.

MVP Variance Request Form				Variance Request No.: A-32	
				Date Approval Requested by Contractor: 2/18/2019	
				Date Submitted by Chief Inspector to LEI: 2/20/2019	
				Date Received by FERC:	
				FERC Approval Reference No.:	
Requested By: Brent Ladd		Spread: A		Variance Type: WS	
Request Prepared By *: Megan Neylon				Variance Sequence Number: 032	
* The FERC compliance monitor should be alerted and given a copy of the draft variance for review prior to submittal.					
Location (Use either Station or Milepost)					
Station: 195+91		To: 207+64		Milepost: 3.55 To: 3.75	
Alignment Sheet Number: 5				Tract No.: WV-WE-018.06, WV-WE-018.08, BW-WE-3	
Current Land Use/ Vegetative Cover: Deciduous Forest; Developed		Other Agency Jurisdiction: N/A			
Nearby Features (Water body, T&E Habitat, Wetland, Noxious Weed Area, Residence (distance), Cultural Resource Site (distance) etc.):				In or w/in 50' of a wetland: ☐ Yes ☒ No	
☐ Noxious Weed Area ☐ Raptor Nest ☐ Residence (Distance) ☒ T/E Species Habitat ☐ Cultural Resource Site ☐ Water Well ☐ Other (Specify):				In or w/in 50' of a waterbody: ☒ Yes ☐ No	
MYSO (+ 1.29ac KUSH)				Wetland or Waterbody ID: N/A	
				S-DQ2, S-HK01	
Additional Stream footage impacted: 0.00				Additional Wetland acreage impacted: 0.00	
Net acreage affected: + 6.24					
Tree Clearing Required: YES		Acreage of tree clearing: + 1.29			
Variance Level: ☐ Level 1 ☐ Level 2 ☒ Level 3					
Variance From: ☒ Permit ☐ Plan ☐ Procedures ☐ EPPM ☐ Specification ☐ Drawing ☐ Mitigation Measure					
☐ Line List		☐ Other: Describe:			
Detailed Description of Variance: Attachments? ☒ Yes ☐ No Photos? ☐ Yes ☒ No					
This variance adds MVP-ATWS-SM-009 and MVP-ATWS-SM-026 for slip remediation. No cultural resources or wetlands were found during delineations. Streams S-DQ2 & S-HK01 were found during delineations but will not incur impacts. Streams will be protected using Reinforced Filtration Devices (RFDs), which may include Priority 1 Silt Fence, Triple Stacked Compost Filter Sock, or Super Silt Fence. This variance has a net increase of 6.24 acres of LOD from the original permit. There is a net increase in tree clearing of 1.29 acres. The modification of the tree clearing results in a net increase of 1.29 acres MYSO - Known Use Summer Habitat (KUSH). On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area.					
List Attachments:		Attachment 1 - Alignment Sheet; Attachment 2 - Rare, Threatened, and Endangered Species Report; Attachment 3 - Stream and Wetland Delineation Report; Attachment 4 - Cultural Resource Reports and Concurrences (CUI//PRIV -- DO NOT RELEASE); Attachment 5 - Landowner Exhibits (CUI//PRIV -- DO NOT RELEASE); Attachment 6 - Variance Request Map			
Variance Justification:					
Addition of MVP-ATWS-SM-009 and MVP-ATWS-SM-026 necessary for slip remediation.					

For MVP Use Only			
Additional Surveys Required		Surveyed Corridor Description	Additional Surveys Completed
Cultural Survey	☒ Yes ☐ No	The locations for this variance request were evaluated for cultural resources, waterbodies and wetlands, threatened and endangered species, and habitat. See the attached cover page list of reports.	☒ Yes ☐ No
T & E Survey	☒ Yes ☐ No		☒ Yes ☐ No
Waterbodies/Wetlands	☒ Yes ☐ No		☒ Yes ☐ No
Proof of Previous Biological and Cultural Survey Clearance			
See attachments 2 and 3 that describe rare, threatened, and endangered species surveys and stream and wetland delineations. USFWS Biological Opinion was issued on 10/31/2017. Additional surveys conducted 7/7/2018 and 9/29/2018. The cultural resources survey was reported in: Mountain Valley Pipeline Project, Cultural Resource Survey, Volume I, Wetzel, Harrison, Doddridge, and Lewis Counties, West Virginia (Espino et al. 2015 July 2015); Mountain Valley Pipeline Project, Cultural Resource Survey, Addendum 1 to Volume I, Wetzel, Harrison, Doddridge and Lewis Counties, West Virginia (Espino et al. November 2016); Mountain Valley Pipeline Project, Proposed Slip Mitigation Workspace MVP-ATWS-SM-009, Request For Concurrence on Disturbance and No Further Survey (Freedman July 2018); Mountain Valley Pipeline Project, Proposed Slip Mitigation Workspace MVP-ATWS-SM-020, MVP-ATWS-SM-021, MVP-ATWS-SM-022, and MVP-ATWS-SM-026, Request For Concurrence on Disturbance and No Further Survey (Freedman August 2018); Mountain Valley Pipeline Project, Proposed Slip Mitigation Workspace MVP-ATWS-SM-026 Extension and Waterline MVP-WL-001 and Associated Temporary Workspace MVP-ATWS-1600, Wetzel County, West Virginia Request for Concurrence on Disturbance and No Further Survey Recommendation (Marine October 2018); Mountain Valley Pipeline Project, Slip Mitigation Workspaces MVP-ATWS-SM-021 (Ext), MVP-ATWS-SM-026 (Ext), MVP-ATWS-SM-048 (Ext), and MVP-ATWS-SM-060, Request for Concurrence on Disturbance and No Further Survey Recommendations (Hockersmith February 2019). Mountain Valley Pipeline Project Slip Mitigation Workspaces MVP-ATWS-SM-038 (Ext), and Proposed Tree Clearing at MVP-ATWS-SM-007 and MVP-ATWS-SM-009 Request for Emergency Slip Mitigation and Tree Clearing Review and Authorization to Proceed (Hockersmith March 2019). Filed with FERC 9/12/2015; 12/22/2016; 7/31/2018; 9/7/2018; 10/30/2018; 3/25/2019; 3/25/2019. Clearance received from WVDCH 10/6/2015; 12/7/2016; 7/6/2018; 9/5/2018; 10/24/18; 3/18/2019; 3/21/2019. The Concurrence Letter is provided in Attachment 4.			
Landowner: Land Agent Contact Landowner Approval ☒ Yes ☐ No Obtained		REDACTED JANNA ARNOLD	
Sign Off:	Name	Signature	Date
Construction Manager	Todd Carroll	Todd Carroll	3/22/2019
Lead Environmental Inspector	Travis Huskins	Travis Huskins	3/22/2019
Third Party Compliance Manager or monitor			
ROW Land Agent *	Janna Arnold	Janna Arnold	3/22/2019
Environmental Supervisor	Megan Neylon	Megan Neylon	3/22/2019
*signature denotes confirmed landowner approval			

For FERC Compliance Monitor and Compliance Manager Use Only					
Variance Approved:			Variance Denied:		
Beyond Authority:					
Signature: _____					
Date:					
Stipulations:					
Spread No.: A			Variance Request No.: A-32		
VARIANCE CONDITIONS					
Name:			Title:		
Organization:					
Conditions:					
Name:		Title:		Organization:	
Conditions:					
Name:		Title:		Organization:	
Conditions:					

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Alignment Sheets
Attachment 1**

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Rare, Threatened, and Endangered Species Report
Attachment 2**

**Mountain Valley Pipeline Project
Variance A-32
February 20, 2019**

State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to aquatic resources associated with this variance; which infers there are no impacts to listed aquatic species.

The only avian species-specific presence-absence surveys required for the project are scrub-shrub habitat-specific in the state of Virginia, thus do not apply to this variance area.

The modification of the tree clearing results in a net increase of 1.29 acres MYSO - Known Use Summer Habitat (KUSH). Tree clearing will not occur between April 1st and November 14th as per the BO. On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

On 07/07/2018 and 09/29/2018, Environmental Solutions and Innovations, Inc. (ESI) conducted field surveys to search for portal openings (winter bat habitat). Surveys were conducted in accordance with agency approved protocols for the project. No portal openings were observed in the variance area.

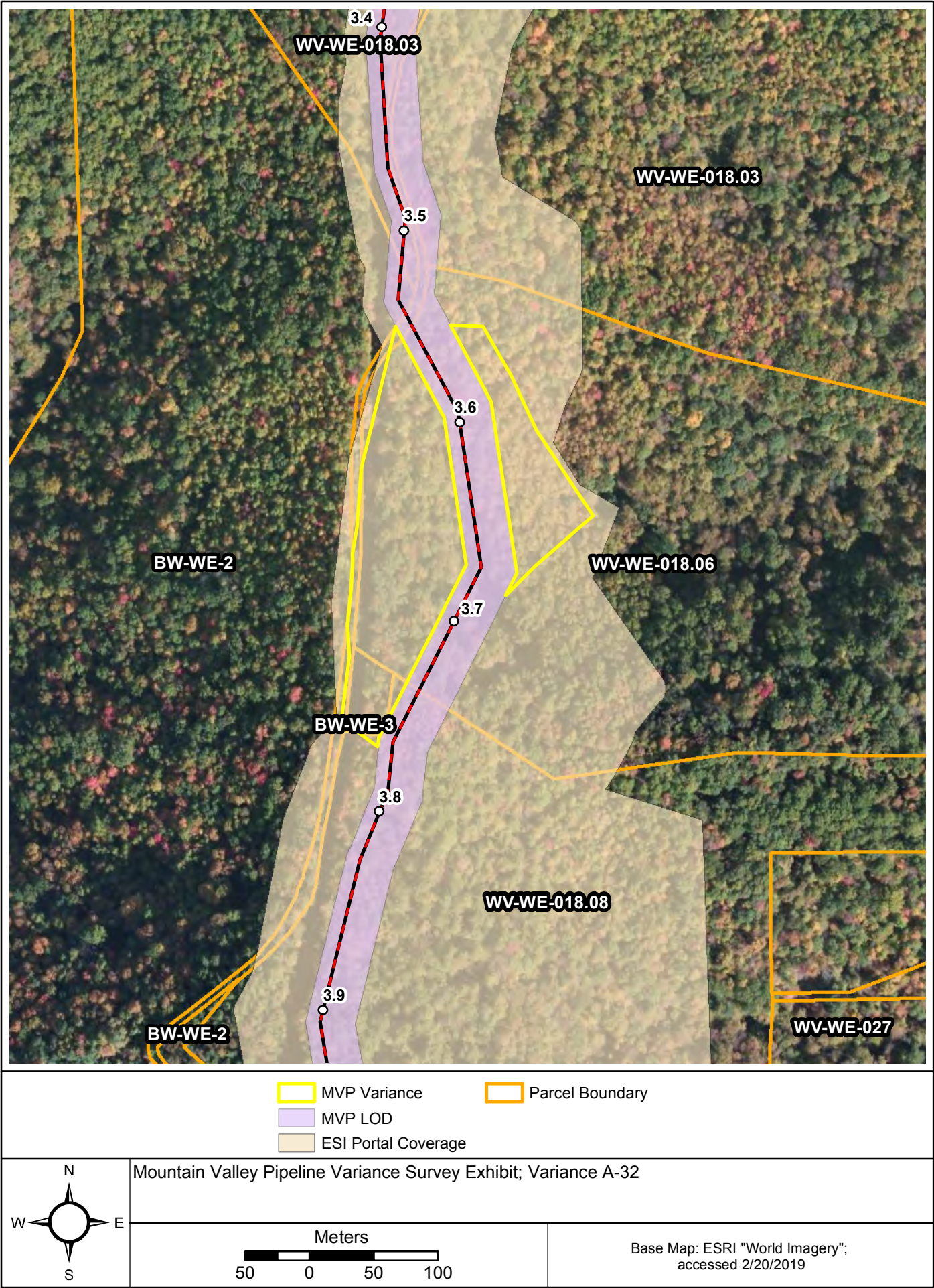


Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Remaining bank acreage from IP-5 table	0.37	1.47	13.04	6.81	13.79	0.59
Bradshaw ATWS	0.02	0.00	0.00	0.00	0.00	0.00
ATWS 1544	0.03	0.00	0.00	0.00	0.00	0.00
ATWS 1545	0.10	0.00	0.00	0.00	0.00	0.00
LY-27	0.00	0.00	0.00	0.00	0.15	0.00
LY-45/46	0.00	0.00	0.00	0.00	0.05	0.00
Variance A-4 - MP 24.6	0.00	0.00	0.00	0.00	0.06	0.00
Bradshaw Slip Repair Phase 1	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-5 - MP 28.97	0.00	0.00	-0.51	0.00	0.09	0.00
Variance H-3 - MP 234.85	0.00	0.00	0.91	0.00	0.00	0.00
Variance F-3 - MP 159.27	0.00	0.00	-0.42	0.00	0.00	0.00
Variance H-2 - MP 240.00	0.00	0.00	0.09	0.00	2.74	0.00
Variance E-4 - LY-058	0.00	0.00	0.00	0.00	0.01	0.00
Variance E-5 - MP 133.46	0.00	0.00	0.27	0.00	0.00	0.00
Variance I-2 - MP-268.8	0.00	0.00	0.00	0.00	0.45	0.00
Variance I-4 - MP 300.7	0.00	0.00	0.00	0.00	0.18	0.00
Variance G-3 - MP 224.1	0.00	0.00	0.00	1.67	0.00	0.00
Variance B-2 - MP 42.7	0.00	0.00	1.45	0.00	0.00	0.00
Variance H-5 - MP 257.9 & 258.2	0.00	0.00	0.39	0.00	0.00	0.00
Variance I-5 - MP 261.47	0.00	0.00	-0.25	0.00	0.00	0.00
Variance H-6 - MP 235.58	0.00	0.00	0.39	0.00	0.20	0.00
Variance F-6 - MP 176.8	0.00	0.00	0.00	0.00	0.08	0.00
Variance D-4 - MP 110.1	0.00	0.00	0.08	0.00	0.00	0.00
Variance E-6 - MP 143.9	0.00	0.00	0.00	0.00	0.08	0.00
Variance F-5 MP 166.07	0.00	0.00	0.24	0.00	0.00	0.00
Variance D-7 - MP 119.0	0.00	0.00	2.64	0.00	0.00	0.00
Variance D-6 - MP 115.74 & 115.85	0.00	0.00	1.22	0.00	0.00	0.00
Variance B-3 - MP 60.29	0.00	0.00	0.01	0.00	0.27	0.00
Variance C-6 - MP 79.46	0.00	0.00	0.00	0.00	-0.21	0.00
Variance C-2 - MP 82	0.00	0.00	0.00	0.00	1.11	0.00
Bradshaw Phase II	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-11 (MP 23.8)	0.00	0.00	0.00	0.00	0.30	0.00
Variance I-10 (MP 266.3)	0.00	0.00	0.00	0.00	-0.64	0.00
Variance A-12 (MP 6.8)	0.01	0.00	0.00	0.00	0.00	0.00
Variance B-7 (MP 60.07)	0.00	0.00	0.00	0.00	1.51	0.00
Variance A-15 (MP 12)	0.00	0.00	0.00	0.00	0.19	0.00
Variance H-7 (MP 238.3) - Transco Credit	0.00	0.00	-11.25	0.00	0.00	0.00
Variance H-7 (MP 238.3)	0.00	0.00	8.37	0.00	0.27	0.00
Variance I-12 (LY-035 Ext)	0.00	0.00	0.00	0.00	0.01	0.00
Variance H-9 (MP 237.5)	0.00	0.00	0.00	0.00	0.24	0.00
Variance D-17 (MP 108.17)	0.00	0.00	4.08	0.00	0.43	0.00
Variance E-10 (MP 149.45)	0.00	0.00	0.00	0.00	0.21	0.00
Variance C-10 (MP 68.4)	0.00	0.00	0.00	0.00	2.34	0.00
Variance C-11 (MP 86.3)	0.00	0.00	0.00	0.00	1.84	0.00

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Variance A-14 (MP 6.5)	0.05	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-WE-014 & ATWSs credit	-12.96	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-LY-024 credit	-0.86	0.00	0.00	0.00	0.00	0.00
Variance B-10 (MP 35.1)	0.00	0.00	0.34	0.00	0.00	0.00
Variance A-23 (MP 0.10)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-24 (MP 2.65)	0.82	0.00	0.00	0.00	0.00	0.00
Variance A-25 (MP 2.10)	1.20	0.00	0.00	0.00	0.00	0.00
Variance C-12 (MP 84.3)	0.00	0.00	0.00	0.00	1.45	0.00
Variance C-13 (MP 68.9)	0.00	0.00	0.00	0.00	0.33	0.00
Variance A-27 (MP 3.4)	0.16	0.00	0.00	0.00	0.00	0.00
Variance G-6 (MP 210.0)	0.00	0.37	0.00	0.00	0.00	0.00
Variance A-26 (MP 4.0)	1.92	0.00	0.00	0.00	0.00	0.00
Variance C-14 (MP 84.4)	0.00	0.00	0.00	0.00	0.15	0.00
Variance C-14 (MP 84.4) - MVP-LE-066.01 credit	0.00	0.00	0.00	0.00	-1.30	0.00
Variance A-29 (MP 1.9)	0.06	0.00	0.00	0.00	0.00	0.00
Variance A-30 (MP 3.9)	1.36	0.00	0.00	0.00	0.00	0.00
Variance G-7 (MP 199.52)	0.00	0.00	0.00	0.07	0.00	0.00
Variance B-11 (MP 52.6)	0.00	0.00	0.60	0.00	0.00	0.00
Variance B-13 (MP 50.3)	0.00	0.00	0.39	0.00	0.00	0.00
Variance A-20 (MP 5.7 - 6.0)	1.72	0.00	0.00	0.00	0.00	0.00
Variance Transco-1	0.00	0.00	0.11	0.00	0.00	0.00
Variance G-9 (MP 209.42)	0.00	0.29	0.00	0.00	0.00	0.00
Variance A-34 (MP 7.9)	0.42	0.00	0.00	0.00	0.00	0.00
Variance A-36 (MP 8.6)	0.11	0.00	0.00	0.00	0.00	0.00
Variance A-41 (MP 1.2)	0.22	0.00	0.00	0.00	0.00	0.00
Variance B-16 (MP 47.13)	0.00	0.00	0.00	0.00	0.31	0.00
Variance A-39 (MP 32.40)	0.00	0.00	0.00	0.00	0.59	0.00
Variance A-42 (MP 3.16)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-44 (MP 6.62)	0.14	0.00	0.00	0.00	0.00	0.00
Variance A-45 (MP 9.10)	0.04	0.00	0.00	0.00	0.00	0.00
Variance A-29 (MP 0.9)	0.30	0.00	0.00	0.00	0.00	0.00
Variance A-51 (MP 2.1)	0.29	0.00	0.00	0.00	0.00	0.00
Variance A-46 (MP 2.65)	0.02	0.00	0.00	0.00	0.00	0.00
Variance A-50 (MP 4.0)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-49 (MP 4.2)	0.56	0.00	0.00	0.00	0.00	0.00
Variance A-32 (MP 3.65)	1.29	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	1.51	0.81	3.89	5.07	0.30	0.59

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Waterbodies and Wetlands Report
Attachment 3**

Mountain Valley Pipeline Project

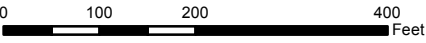
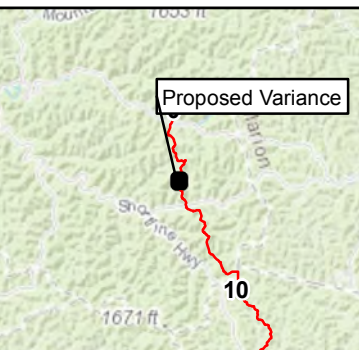
Variance A-32

February 21, 2019

On October 4, 2018, and February 13, 2019, Tetra Tech, Inc. (Tetra Tech) surveyed the proposed variance in Wetzel Co., WV for wetlands and streams. Wetland delineations were conducted utilizing the Routine On-Site Determination Methodology presented in the US Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

During field surveys, Tetra Tech identified two streams (S-DQ2 & S-HK01) and did not identify any wetlands in the variance area as shown on the attached figure.



Mountain Valley Pipeline Project		 NAD 1983 UTM 17N 1 inch = 200 feet	 0 100 200 400 Feet
 Proposed Variance A-32 Wetzel County, West Virginia February 2019	Legend  Issued for Construction LOD  Proposed Variance Limit of Disturbance  Ephemeral Stream  Drainage Feature		
	Data Sources: ESRI Streaming Data 2014.		

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Pipeline Variance
Request Map
Attachment 6**



MVP Variance
A-32

Legend

-  Issued for Construction Milepost
-  Issued for Construction Route
-  Issued for Construction Limits of Disturbance
-  Parcel Boundary

 Proposed Variance
Additional Temporary
Workspace

Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.

MVP Variance Request Form		Variance Request No.:	A-45
		Date Approval Requested by Contractor:	2/18/2019
		Date Submitted by Chief Inspector to LEI:	2/20/2019
		Date Received by FERC:	
FERC Approval Reference No.:			
Requested By:	Brent Ladd	Spread:	A
Request Prepared By *:	Megan Neylon	Variance Type:	WS
		Variance Sequence Number:	045
* The FERC compliance monitor should be alerted and given a copy of the draft variance for review prior to submittal.			
Location (Use either Station or Milepost)			
Station:	491+85	To:	493+37
		Milepost:	9.10
		To:	9.10
Alignment Sheet Number:	10	Tract No.:	WV-WE-047.03
Current Land Use/ Vegetative Cover:	Deciduous Forest	Other Agency Jurisdiction:	N/A
Nearby Features (Water body, T&E Habitat, Wetland, Noxious Weed Area, Residence (distance), Cultural Resource Site (distance) etc.):		In or w/in 50' of a wetland: ☐ Yes ☒ No	
☐ Noxious Weed Area ☐ Raptor Nest ☐ Residence (Distance) ☒ T/E Species Habitat ☐ Cultural Resource Site ☐ Water Well ☐ Other (Specify):		In or w/in 50' of a waterbody: ☐ Yes ☒ No	
MYSO (+0.04ac KUSH)		Wetland or Waterbody ID: N/A	
Additional Stream footage impacted:		Additional Wetland impacts:	
0.00		0.00	
Net acreage affected:	+ 0.17		
Tree Clearing Required:	Yes	Acreage of tree clearing:	+ 0.04
Variance Level:	☐ Level 1 ☐ Level 2 ☒ Level 3		
Variance From:	☒ Permit ☐ Plan ☐ Procedures ☐ EPPM ☐ Specification ☐ Drawing ☐ Mitigation Measure		
☐ Line List		☐ Other: Describe:	
Detailed Description of Variance:		Attachments?	Photos?
		☒ Yes ☐ No	☐ Yes ☒ No
This variance adds MVP-ATWS-SM-039 for slip remediation. (Slide MVP-A-035). No Cultural Resources, Streams or Wetlands were found during surveys. This variance has a net increase of 0.17 acres of LOD from the original permit. There is a net increase in tree clearing of 0.04 acres. The modification of the tree clearing results in a net increase of 0.04 acres MYSO - Known Use Summer Habitat (KUSH). On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area.			
List Attachments:	Attachment 1 - Alignment Sheet; Attachment 2 - Rare, Threatened, and Endangered Species Report; Attachment 3 - Stream and Wetland Delineation Report; Attachment 4 - Cultural Resource Reports and Concurrences (CUI//PRIV -- DO NOT RELEASE); Attachment 5 - Landowner Exhibits (CUI//PRIV -- DO NOT RELEASE); Attachment 6 - Variance Request Map		
Variance Justification:			
This variance adds MVP-ATWS-SM-039 for slip remediation. (Slide MVP-A-035).			
For MVP Use Only			
Additional Surveys Required		Surveyed Corridor Description	Additional Surveys Completed
Cultural Survey	☒ Yes ☐ No	The locations for this variance request were evaluated for cultural resources, waterbodies and wetlands, threatened and endangered species, and habitat. See the attached cover page list of reports.	☒ Yes ☐ No
T & E Survey	☐ Yes ☒ No		☐ Yes ☒ No
Waterbodies/Wetlands	☒ Yes ☐ No		☒ Yes ☐ No

Proof of Previous Biological and Cultural Survey Clearance

See attachments 2 and 3 that describe rare, threatened, and endangered species surveys and stream and wetland delineations. USFWS Biological Opinion was issued on 10/31/2017. The cultural resources survey was reported in: Mountain Valley Pipeline Project, Cultural Resource Survey, Addendum 1 to Volume I, Wetzel, Harrison, Doddridge and Lewis Counties, West Virginia (Espino et al. November 2016); Mountain Valley Pipeline Project, Slip Mitigation Workspaces MVP-ATWS-SM-037, MVP-ATWS-SM-038, and MVP-ATWS-SM-039, Request for Concurrence on Disturbance and No Further Survey Recommendations (Freedman October 2018). Filed with FERC 12/22/2016; 10/30/2018. Clearance received from WVDCH 12/7/2016; 11/7/2018. The Concurrence Letter is provided in Attachment 4.

Landowner:**REDACTED****Land Agent Contact****JANNA ARNOLD****Landowner Approval
Obtained**☒ **Yes**☐ **No****Sign Off:****Name****Signature****Date**

Construction Manager

*Todd Carroll**Todd Carroll*

3/20/2019

Lead Environmental Inspector

*Travis Huskins**Travis Huskins*

3/20/2019

Third Party Compliance Manager or monitor

ROW Land Agent *

*Janna Arnold**Janna Arnold*

3/20/2019

Environmental Supervisor

*Megan Neylon**Megan Neylon*

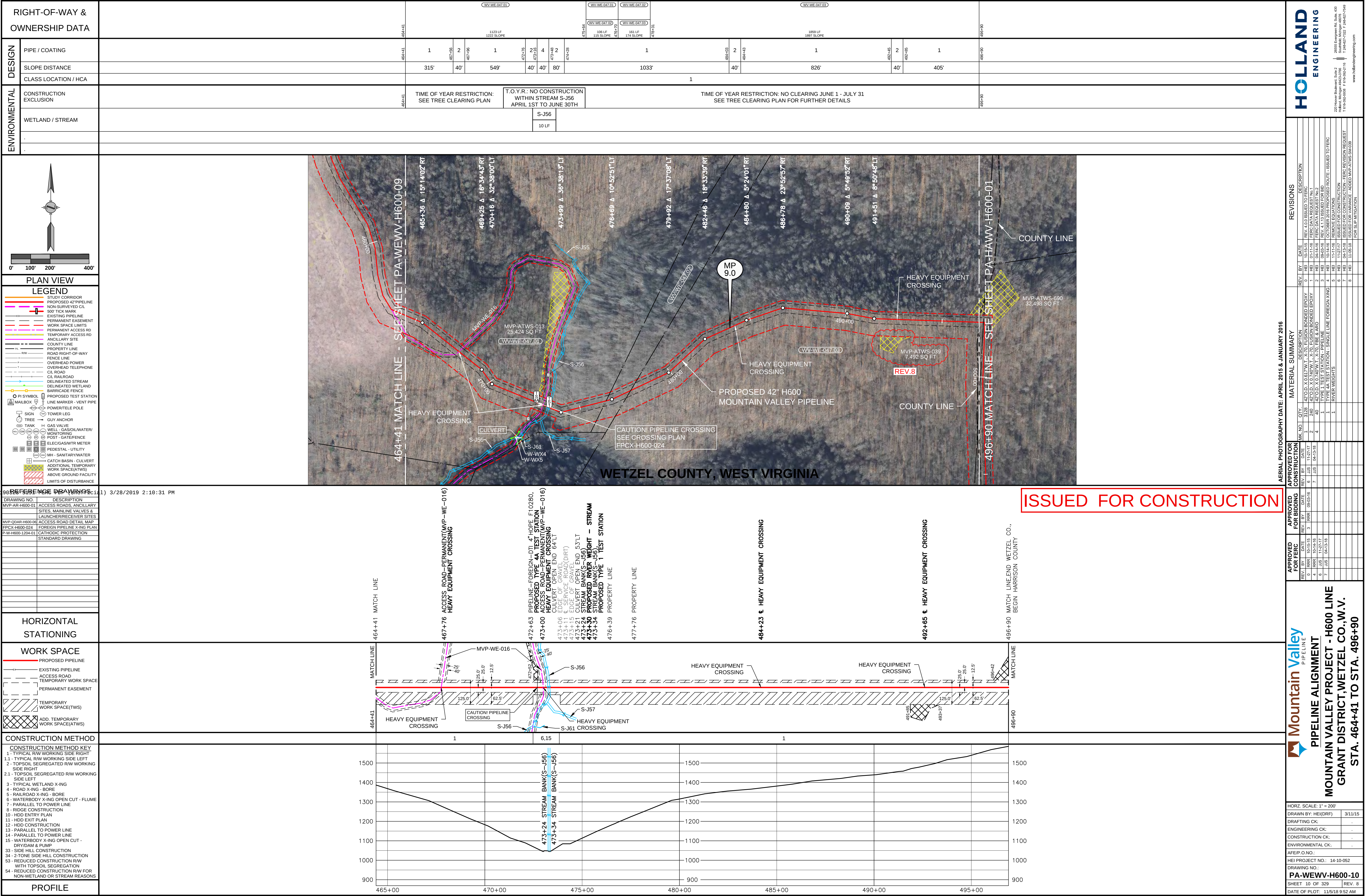
3/20/2019

*signature denotes confirmed landowner approval

For FERC Compliance Monitor and Compliance Manager Use Only					
Variance Approved:			Variance Denied:		
Beyond Authority:					
Signature: _____					
Date: _____					
Stipulations: _____					
Spread No.: A			Variance Request No.: A-45		
VARIANCE CONDITIONS					
Name:			Title:		
Organization:					
Conditions: _____					
Name:		Title:		Organization:	
Conditions: _____					
Name:		Title:		Organization:	
Conditions: _____					

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Alignment Sheets
Attachment 1**



**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Rare, Threatened, and Endangered Species Report
Attachment 2**

**Mountain Valley Pipeline Project
Variance A-45
October 26, 2018**

State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to aquatic resources associated with this variance; which infers there are no impacts to listed aquatic species.

The only avian species-specific presence-absence surveys required for the project are scrub-shrub habitat-specific in the state of Virginia, thus do not apply to this variance area.

The modification of the tree clearing results in a net increase of 0.04 acres MYSO - Known Use Summer Habitat (KUSH). Tree clearing will not occur between April 1st and November 14th as per the BO. On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

On 02/10/2015, Environmental Solutions and Innovations, Inc. (ESI) conducted field surveys to search for portal openings (winter bat habitat). Surveys were conducted in accordance with agency approved protocols for the project. No portal openings were observed in the variance area.



Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Remaining bank acreage from IP-5 table	0.37	1.47	13.04	6.81	13.79	0.59
Bradshaw ATWS	0.02	0.00	0.00	0.00	0.00	0.00
ATWS 1544	0.03	0.00	0.00	0.00	0.00	0.00
ATWS 1545	0.10	0.00	0.00	0.00	0.00	0.00
LY-27	0.00	0.00	0.00	0.00	0.15	0.00
LY-45/46	0.00	0.00	0.00	0.00	0.05	0.00
Variance A-4 - MP 24.6	0.00	0.00	0.00	0.00	0.06	0.00
Bradshaw Slip Repair Phase 1	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-5 - MP 28.97	0.00	0.00	-0.51	0.00	0.09	0.00
Variance H-3 - MP 234.85	0.00	0.00	0.91	0.00	0.00	0.00
Variance F-3 - MP 159.27	0.00	0.00	-0.42	0.00	0.00	0.00
Variance H-2 - MP 240.00	0.00	0.00	0.09	0.00	2.74	0.00
Variance E-4 - LY-058	0.00	0.00	0.00	0.00	0.01	0.00
Variance E-5 - MP 133.46	0.00	0.00	0.27	0.00	0.00	0.00
Variance I-2 - MP-268.8	0.00	0.00	0.00	0.00	0.45	0.00
Variance I-4 - MP 300.7	0.00	0.00	0.00	0.00	0.18	0.00
Variance G-3 - MP 224.1	0.00	0.00	0.00	1.67	0.00	0.00
Variance B-2 - MP 42.7	0.00	0.00	1.45	0.00	0.00	0.00
Variance H-5 - MP 257.9 & 258.2	0.00	0.00	0.39	0.00	0.00	0.00
Variance I-5 - MP 261.47	0.00	0.00	-0.25	0.00	0.00	0.00
Variance H-6 - MP 235.58	0.00	0.00	0.39	0.00	0.20	0.00
Variance F-6 - MP 176.8	0.00	0.00	0.00	0.00	0.08	0.00
Variance D-4 - MP 110.1	0.00	0.00	0.08	0.00	0.00	0.00
Variance E-6 - MP 143.9	0.00	0.00	0.00	0.00	0.08	0.00
Variance F-5 MP 166.07	0.00	0.00	0.24	0.00	0.00	0.00
Variance D-7 - MP 119.0	0.00	0.00	2.64	0.00	0.00	0.00
Variance D-6 - MP 115.74 & 115.85	0.00	0.00	1.22	0.00	0.00	0.00
Variance B-3 - MP 60.29	0.00	0.00	0.01	0.00	0.27	0.00
Variance C-6 - MP 79.46	0.00	0.00	0.00	0.00	-0.21	0.00
Variance C-2 - MP 82	0.00	0.00	0.00	0.00	1.11	0.00
Bradshaw Phase II	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-11 (MP 23.8)	0.00	0.00	0.00	0.00	0.30	0.00
Variance I-10 (MP 266.3)	0.00	0.00	0.00	0.00	-0.64	0.00
Variance A-12 (MP 6.8)	0.01	0.00	0.00	0.00	0.00	0.00
Variance B-7 (MP 60.07)	0.00	0.00	0.00	0.00	1.51	0.00
Variance A-15 (MP 12)	0.00	0.00	0.00	0.00	0.19	0.00
Variance H-7 (MP 238.3) - Transco Credit	0.00	0.00	-11.25	0.00	0.00	0.00
Variance H-7 (MP 238.3)	0.00	0.00	8.37	0.00	0.27	0.00
Variance I-12 (LY-035 Ext)	0.00	0.00	0.00	0.00	0.01	0.00
Variance H-9 (MP 237.5)	0.00	0.00	0.00	0.00	0.24	0.00
Variance D-17 (MP 108.17)	0.00	0.00	4.08	0.00	0.43	0.00
Variance E-10 (MP 149.45)	0.00	0.00	0.00	0.00	0.21	0.00
Variance C-10 (MP 68.4)	0.00	0.00	0.00	0.00	2.34	0.00
Variance C-11 (MP 86.3)	0.00	0.00	0.00	0.00	1.84	0.00

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Variance A-14 (MP 6.5)	0.05	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-WE-014 & ATWSs credit	-12.96	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-LY-024 credit	-0.86	0.00	0.00	0.00	0.00	0.00
Variance B-10 (MP 35.1)	0.00	0.00	0.34	0.00	0.00	0.00
Variance A-23 (MP 0.10)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-24 (MP 2.65)	0.82	0.00	0.00	0.00	0.00	0.00
Variance A-25 (MP 2.10)	1.20	0.00	0.00	0.00	0.00	0.00
Variance C-12 (MP 84.3)	0.00	0.00	0.00	0.00	1.45	0.00
Variance C-13 (MP 68.9)	0.00	0.00	0.00	0.00	0.33	0.00
Variance A-27 (MP 3.4)	0.16	0.00	0.00	0.00	0.00	0.00
Variance G-6 (MP 210.0)	0.00	0.37	0.00	0.00	0.00	0.00
Variance A-26 (MP 4.0)	1.92	0.00	0.00	0.00	0.00	0.00
Variance C-14 (MP 84.4)	0.00	0.00	0.00	0.00	0.15	0.00
Variance C-14 (MP 84.4) - MVP-LE-066.01 credit	0.00	0.00	0.00	0.00	-1.30	0.00
Variance A-29 (MP 1.9)	0.06	0.00	0.00	0.00	0.00	0.00
Variance A-30 (MP 3.9)	1.36	0.00	0.00	0.00	0.00	0.00
Variance G-7 (MP 199.52)	0.00	0.00	0.00	0.07	0.00	0.00
Variance B-11 (MP 52.6)	0.00	0.00	0.60	0.00	0.00	0.00
Variance B-13 (MP 50.3)	0.00	0.00	0.39	0.00	0.00	0.00
Variance A-20 (MP 5.7 - 6.0)	1.72	0.00	0.00	0.00	0.00	0.00
Variance Transco-1	0.00	0.00	0.11	0.00	0.00	0.00
Variance G-9 (MP 209.42)	0.00	0.29	0.00	0.00	0.00	0.00
Variance A-34 (MP 7.9)	0.42	0.00	0.00	0.00	0.00	0.00
Variance A-36 (MP 8.6)	0.11	0.00	0.00	0.00	0.00	0.00
Variance A-41 (MP 1.2)	0.22	0.00	0.00	0.00	0.00	0.00
Variance B-16 (MP 47.13)	0.00	0.00	0.00	0.00	0.31	0.00
Variance A-39 (MP 32.40)	0.00	0.00	0.00	0.00	0.59	0.00
Variance A-42 (MP 3.16)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-44 (MP 6.62)	0.14	0.00	0.00	0.00	0.00	0.00
Variance A-45 (MP 9.10)	0.04	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	4.84	0.81	3.89	5.07	0.30	0.59

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Waterbodies and Wetlands Report
Attachment 3**

Mountain Valley Pipeline Project

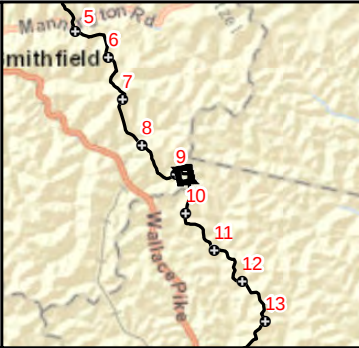
Variance A-45

October 30, 2018

On October 17, 2018, Tetra Tech, Inc. (Tetra Tech) surveyed the proposed variance in Wetzel Co., WV for wetlands and streams. Wetland delineations were conducted utilizing the Routine On-Site Determination Methodology presented in the US Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

During field surveys, Tetra Tech did not identify any streams or wetlands in the variance area as shown on the attached figure.

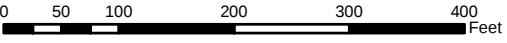
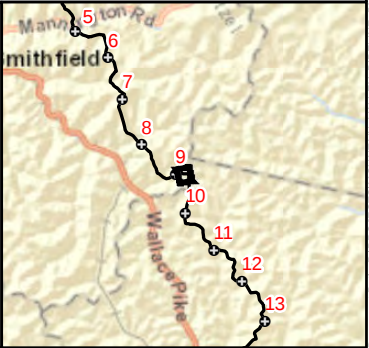


Mountain Valley Pipeline Project		 NAD 1983 UTM 17N	0 25 50 100 150 200 Feet
 FERC Docket No. CP16-10-000 MVP Variance A-45 WETZEL COUNTY October 2018	Legend  Issued for Construction Milepost  Issued for Construction Route  Issued for Construction Limits of Disturbance  Parcel Boundary  Proposed Variance Additional Temporary Workspace		
	Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.		

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Pipeline Variance
Request Map
Attachment 6**



Mountain Valley Pipeline Project		 NAD 1983 UTM 17N	
 FERC Docket No. CP16-10-000 MVP Variance A-45 WETZEL COUNTY October 2018	Legend  Issued for Construction Milepost  Issued for Construction Route  Issued for Construction Limits of Disturbance  Parcel Boundary  Proposed Variance Additional Temporary Workspace		
	Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.		

Document Path: R:\PROJECT\SMITHFIELD\VALLEY_PIPELINE\SUBVARIANCE_MAPPING\SMITHFIELD_PIPELINE_SUBVARIANCE_MAPPING\CP16-10-000\CP16-10-000_VARIANCE_MAPBOOK.mxd

MVP Variance Request Form				Variance Request			
				Variance Request No.:	A-46		
				Date Approval Requested by Contractor:	2/18/2019		
				Date Submitted by Chief Inspector to LEI:	2/20/2019		
				Date Received by FERC:			
FERC Approval Reference No.:							
Requested By:	Brent Ladd		Spread:	A	Variance Type:	WS	
Request Prepared By *:	Megan Neylon		Variance Sequence Number:		046		
* The FERC compliance monitor should be alerted and given a copy of the draft variance for review prior to submittal.							
Location (Use either Station or Milepost)							
Station:	135+00	To:	135+00	Milepost:	2.65	To:	2.65
Alignment Sheet Number:	3		Tract No.:	WV-WE-017			
Current Land Use/ Vegetative Cover:	Deciduous Forest		Other Agency Jurisdiction:	N/A			
Nearby Features (Water body, T&E Habitat, Wetland, Noxious Weed Area, Residence (distance), Cultural Resource Site (distance) etc.): ☐ Noxious Weed Area ☐ Raptor Nest ☐ Residence (Distance) ☒ T/E Species Habitat ☐ Cultural Resource Site ☐ Water Well ☐ Other (Specify):				In or w/in 50' of a wetland:		☐ Yes ☒ No	
				In or w/in 50' of a waterbody:		☐ Yes ☒ No	
				Wetland or Waterbody ID:		N/A	
						N/A	
Additional Stream footage impacted:	0.00	Additional wetland acreage impacted:		0.00			
Net acreage affected:	+ 0.34						
Tree Clearing Required:	YES	Acreage of tree clearing:	+ 0.02				
Variance Level:	☐ Level 1 ☐ Level 2 ☒ Level 3						
Variance From:	☒ Permit ☐ Plan ☐ Procedures ☐ EPPM ☐ Specification ☐ Drawing ☐ Mitigation Measure						
	☐ Line List		☐ Other: Describe:				
Detailed Description of Variance: Attachments? ☒ Yes ☐ No Photos? ☐ Yes ☒ No							
This variance adds MVP-ATWS-SM-021(ext) for slip remediation. No Cultural Resources, Streams or Wetlands were found during surveys. This variance has a net increase of 0.34 acres of LOD from the original permit. There is a net increase in tree clearing of 0.02 acres. The modification of the tree clearing results in a net increase of 0.02 acres MYSO - Known Use Summer Habitat (KUSH). On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area.							
List Attachments:	Attachment 1 - Alignment Sheet; Attachment 2 - Rare, Threatened, and Endangered Species Report; Attachment 3 - Stream and Wetland Delineation Report; Attachment 4 - Cultural Resource Reports and Concurrences (CUI//PRIV -- DO NOT RELEASE); Attachment 5 - Landowner Exhibits (CUI//PRIV -- DO NOT RELEASE); Attachment 6 - Variance Request Map						
Variance Justification: Necessary for slip remediation.							

For MVP Use Only			
Additional Surveys Required		Surveyed Corridor Description	Additional Surveys Completed
Cultural Survey	☒ Yes ☐ No	The locations for this variance request were evaluated for cultural resources, waterbodies and wetlands, threatened and endangered species, and habitat. See the attached cover page list of reports.	☒ Yes ☐ No
T & E Survey	☒ Yes ☐ No		☒ Yes ☐ No
Waterbodies/Wetlands	☒ Yes ☐ No		☒ Yes ☐ No
Proof of Previous Biological and Cultural Survey Clearance			
See attachments 2 and 3 that describe rare, threatened, and endangered species surveys and stream and wetland delineations. USFWS Biological Opinion was issued on 10/31/2017. Additional survey conducted 8/24/2018. The cultural resources survey was reported in: Mountain Valley Pipeline Project, Cultural Resource Survey, Volume I, Wetzel, Harrison, Doddridge, and Lewis Counties, West Virginia (Espino et al. 2015 July 2015); Mountain Valley Pipeline Project, Cultural Resource Survey, Addendum 1 to Volume I, Wetzel, Harrison, Doddridge and Lewis Counties, West Virginia (Espino et al. November 2016); Mountain Valley Pipeline Project, Proposed Slip Mitigation Workspace MVP-ATWS-SM-020, MVP-ATWS-SM-021, MVP-ATWS-SM-022, and MVP-ATWS-SM-026, Request For Concurrence on Disturbance and No Further Survey (Freedman August 2018); Mountain Valley Pipeline Project, Slip Mitigation Workspaces MVP-ATWS-SM-021 (Ext), MVP-ATWS-SM-026 (Ext), MVP-ATWS-SM-048 (Ext), and MVP-ATWS-SM-060. Request for Concurrence on Disturbance and No Further Survey Recommendations (Freedman February 2019). Filed with FERC 9/12/2015; 12/7/2016; 9/7/2018; 2/28/2019. Clearance received from WVDCH 10/6/2015; 12/7/2016; 9/5/2018; 3/18/2019. The Concurrence Letter is provided in Attachment 4.			
Landowner: Land Agent Contact Landowner Approval ☒ Yes ☐ No Obtained		REDACTED JANNA ARNOLD	
Sign Off:			
	Name	Signature	Date
Construction Manager	<i>Todd Carroll</i>	<i>Todd Carroll</i>	3/22/2019
Lead Environmental Inspector	<i>Travis Huskins</i>	<i>Travis Huskins</i>	3/22/2019
Third Party Compliance Manager or monitor			
ROW Land Agent *	<i>Janna Arnold</i>	<i>Janna Arnold</i>	3/22/2019
Environmental Supervisor	<i>Megan Neylon</i>	<i>Megan Neylon</i>	3/22/2019
*signature denotes confirmed landowner approval			

For FERC Compliance Monitor and Compliance Manager Use Only					
Variance Approved:			Variance Denied:		
Beyond Authority:					
Signature: _____					
Date:					
Stipulations:					
Spread No.: A			Variance Request No.: A-46		
VARIANCE CONDITIONS					
Name:			Title:		
Organization:					
Conditions:					
Name:		Title:		Organization:	
Conditions:					
Name:		Title:		Organization:	
Conditions:					

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Alignment Sheets
Attachment 1**

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Rare, Threatened, and Endangered Species Report
Attachment 2**

**Mountain Valley Pipeline Project
Variance A-46
March 01, 2019**

State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to aquatic resources associated with this variance; which infers there are no impacts to listed aquatic species.

The only avian species-specific presence-absence surveys required for the project are scrub-shrub habitat-specific in the state of Virginia, thus do not apply to this variance area.

The modification of the tree clearing results in a net increase of 0.02 acres MYSO - Known Use Summer Habitat (KUSH). Tree clearing will not occur between April 1st and November 14th as per the BO. On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

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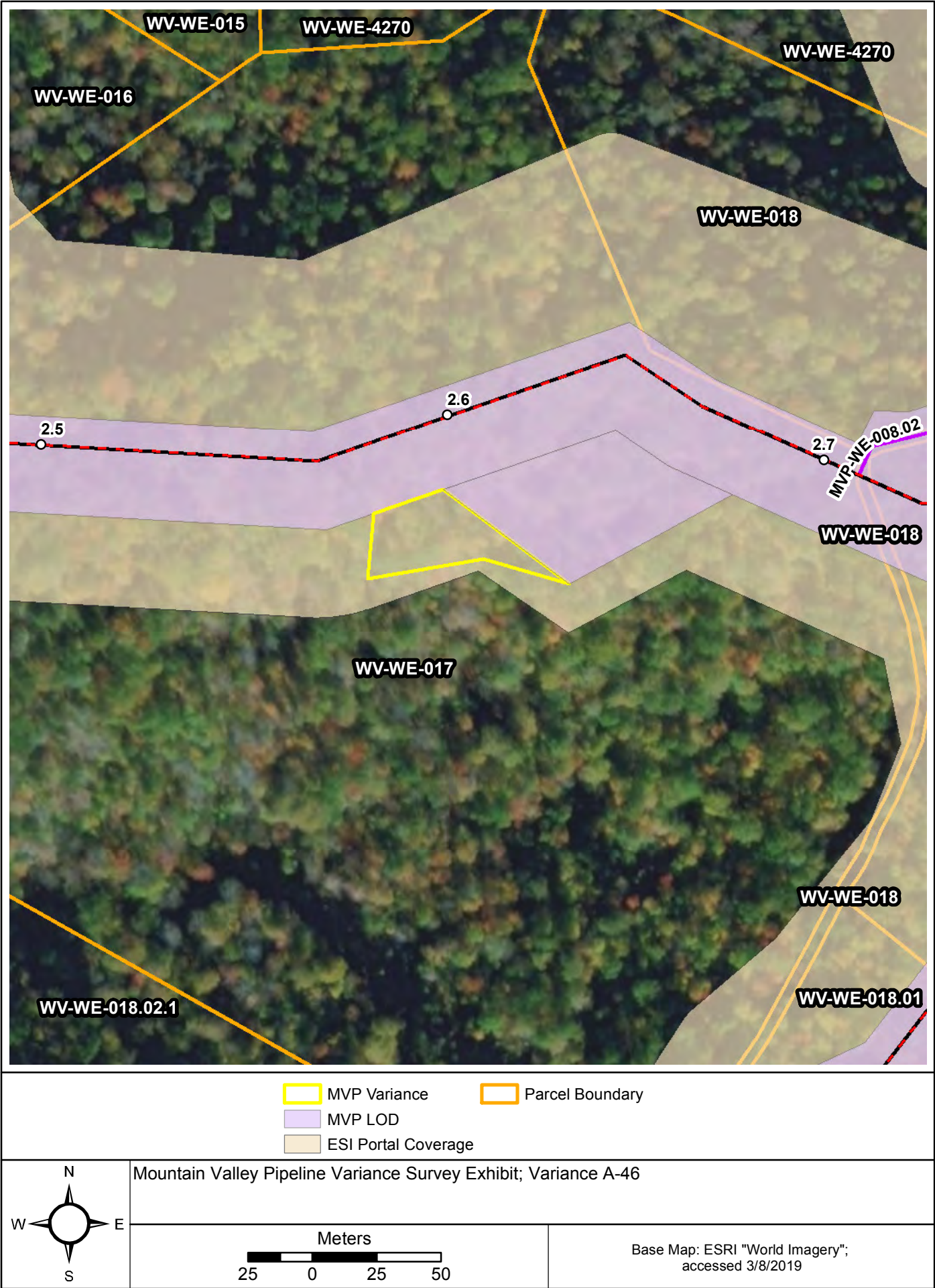


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LY-45/46	0.00	0.00	0.00	0.00	0.05	0.00
Variance A-4 - MP 24.6	0.00	0.00	0.00	0.00	0.06	0.00
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Variance H-3 - MP 234.85	0.00	0.00	0.91	0.00	0.00	0.00
Variance F-3 - MP 159.27	0.00	0.00	-0.42	0.00	0.00	0.00
Variance H-2 - MP 240.00	0.00	0.00	0.09	0.00	2.74	0.00
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Variance E-5 - MP 133.46	0.00	0.00	0.27	0.00	0.00	0.00
Variance I-2 - MP-268.8	0.00	0.00	0.00	0.00	0.45	0.00
Variance I-4 - MP 300.7	0.00	0.00	0.00	0.00	0.18	0.00
Variance G-3 - MP 224.1	0.00	0.00	0.00	1.67	0.00	0.00
Variance B-2 - MP 42.7	0.00	0.00	1.45	0.00	0.00	0.00
Variance H-5 - MP 257.9 & 258.2	0.00	0.00	0.39	0.00	0.00	0.00
Variance I-5 - MP 261.47	0.00	0.00	-0.25	0.00	0.00	0.00
Variance H-6 - MP 235.58	0.00	0.00	0.39	0.00	0.20	0.00
Variance F-6 - MP 176.8	0.00	0.00	0.00	0.00	0.08	0.00
Variance D-4 - MP 110.1	0.00	0.00	0.08	0.00	0.00	0.00
Variance E-6 - MP 143.9	0.00	0.00	0.00	0.00	0.08	0.00
Variance F-5 MP 166.07	0.00	0.00	0.24	0.00	0.00	0.00
Variance D-7 - MP 119.0	0.00	0.00	2.64	0.00	0.00	0.00
Variance D-6 - MP 115.74 & 115.85	0.00	0.00	1.22	0.00	0.00	0.00
Variance B-3 - MP 60.29	0.00	0.00	0.01	0.00	0.27	0.00
Variance C-6 - MP 79.46	0.00	0.00	0.00	0.00	-0.21	0.00
Variance C-2 - MP 82	0.00	0.00	0.00	0.00	1.11	0.00
Bradshaw Phase II	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-11 (MP 23.8)	0.00	0.00	0.00	0.00	0.30	0.00
Variance I-10 (MP 266.3)	0.00	0.00	0.00	0.00	-0.64	0.00
Variance A-12 (MP 6.8)	0.01	0.00	0.00	0.00	0.00	0.00
Variance B-7 (MP 60.07)	0.00	0.00	0.00	0.00	1.51	0.00
Variance A-15 (MP 12)	0.00	0.00	0.00	0.00	0.19	0.00
Variance H-7 (MP 238.3) - Transco Credit	0.00	0.00	-11.25	0.00	0.00	0.00
Variance H-7 (MP 238.3)	0.00	0.00	8.37	0.00	0.27	0.00
Variance I-12 (LY-035 Ext)	0.00	0.00	0.00	0.00	0.01	0.00
Variance H-9 (MP 237.5)	0.00	0.00	0.00	0.00	0.24	0.00
Variance D-17 (MP 108.17)	0.00	0.00	4.08	0.00	0.43	0.00
Variance E-10 (MP 149.45)	0.00	0.00	0.00	0.00	0.21	0.00
Variance C-10 (MP 68.4)	0.00	0.00	0.00	0.00	2.34	0.00
Variance C-11 (MP 86.3)	0.00	0.00	0.00	0.00	1.84	0.00

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Variance A-14 (MP 6.5)	0.05	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-WE-014 & ATWSs credit	-12.96	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-LY-024 credit	-0.86	0.00	0.00	0.00	0.00	0.00
Variance B-10 (MP 35.1)	0.00	0.00	0.34	0.00	0.00	0.00
Variance A-23 (MP 0.10)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-24 (MP 2.65)	0.82	0.00	0.00	0.00	0.00	0.00
Variance A-25 (MP 2.10)	1.20	0.00	0.00	0.00	0.00	0.00
Variance C-12 (MP 84.3)	0.00	0.00	0.00	0.00	1.45	0.00
Variance C-13 (MP 68.9)	0.00	0.00	0.00	0.00	0.33	0.00
Variance A-27 (MP 3.4)	0.16	0.00	0.00	0.00	0.00	0.00
Variance G-6 (MP 210.0)	0.00	0.37	0.00	0.00	0.00	0.00
Variance A-26 (MP 4.0)	1.92	0.00	0.00	0.00	0.00	0.00
Variance C-14 (MP 84.4)	0.00	0.00	0.00	0.00	0.15	0.00
Variance C-14 (MP 84.4) - MVP-LE-066.01 credit	0.00	0.00	0.00	0.00	-1.30	0.00
Variance A-29 (MP 1.9)	0.06	0.00	0.00	0.00	0.00	0.00
Variance A-30 (MP 3.9)	1.36	0.00	0.00	0.00	0.00	0.00
Variance G-7 (MP 199.52)	0.00	0.00	0.00	0.07	0.00	0.00
Variance B-11 (MP 52.6)	0.00	0.00	0.60	0.00	0.00	0.00
Variance B-13 (MP 50.3)	0.00	0.00	0.39	0.00	0.00	0.00
Variance A-20 (MP 5.7 - 6.0)	1.72	0.00	0.00	0.00	0.00	0.00
Variance Transco-1	0.00	0.00	0.11	0.00	0.00	0.00
Variance G-9 (MP 209.42)	0.00	0.29	0.00	0.00	0.00	0.00
Variance A-34 (MP 7.9)	0.42	0.00	0.00	0.00	0.00	0.00
Variance A-36 (MP 8.6)	0.11	0.00	0.00	0.00	0.00	0.00
Variance A-41 (MP 1.2)	0.22	0.00	0.00	0.00	0.00	0.00
Variance B-16 (MP 47.13)	0.00	0.00	0.00	0.00	0.31	0.00
Variance A-39 (MP 32.40)	0.00	0.00	0.00	0.00	0.59	0.00
Variance A-42 (MP 3.16)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-44 (MP 6.62)	0.14	0.00	0.00	0.00	0.00	0.00
Variance A-45 (MP 9.10)	0.04	0.00	0.00	0.00	0.00	0.00
Variance A-29 (MP 0.9)	0.30	0.00	0.00	0.00	0.00	0.00
Variance A-51 (MP 2.1)	0.29	0.00	0.00	0.00	0.00	0.00
Variance A-46 (MP 2.65)	0.02	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	4.23	0.81	3.89	5.07	0.30	0.59

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Waterbodies and Wetlands Report
Attachment 3**

Mountain Valley Pipeline Project

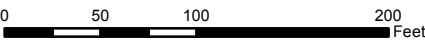
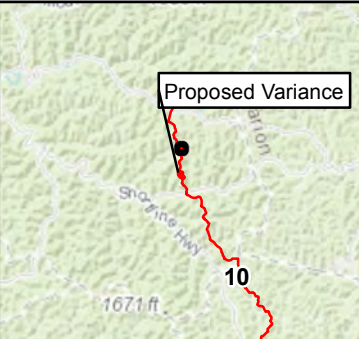
Variance A-46

March 6, 2019

On August 24, 2018 and February 15, 2019, Tetra Tech, Inc. (Tetra Tech) surveyed the proposed variance in Wetzel Co., WV for wetlands and streams. Wetland delineations were conducted utilizing the Routine On-Site Determination Methodology presented in the US Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

During field surveys, Tetra Tech did not identify any wetlands or streams in the variance area as shown on the attached figure.

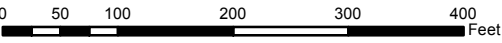


Mountain Valley Pipeline Project		 NAD 1983 UTM 17N 1 inch = 100 feet	
 Proposed Variance A-46 <i>Wetzel County, West Virginia</i> March 2019	Legend  Issued for Construction LOD  Proposed Variance Limit of Disturbance  Drainage Feature		
	Data Sources: ESRI Streaming Data 2014.		

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Pipeline Variance
Request Map
Attachment 6**



Mountain Valley Pipeline Project		 NAD 1983 UTM 17N	 0 50 100 200 300 400 Feet
 Mountain Valley PIPELINE FERC Docket No. CP16-10-000 MVP Variance A-46 WETZEL COUNTY March 2019	Legend  Issued for Construction Milepost - Issued for Construction Route  Issued for Construction Limits of Disturbance  Parcel Boundary  Proposed Variance  Additional Temporary Workspace		
	Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.		

MVP Variance Request Form				Variance Request	
			No.:		A-48
			Date Approval Requested by Contractor:		2/15/2019
			Date Submitted by Chief Inspector to LEI:		2/17/2019
			Date Received by FERC:		
FERC Approval Reference No.:					
Requested By:		Brent Ladd		Spread:	A
Request Prepared By *:		Megan Neylon		Variance Type:	WS
				Variance Sequence Number:	048
* The FERC compliance monitor should be alerted and given a copy of the draft variance for review prior to submittal.					
Location (Use either Station or Milepost)					
Station:		272+41	To:	276+03	Milepost:
					5.05
Alignment Sheet Number:		6	Tract No.:		WV-WE-027; WV-WE-027.01
Current Land Use/Vegetative Cover:		Deciduous Forest		Other Agency Jurisdiction:	N/A
Nearby Features (Water body, T&E Habitat, Wetland, Noxious Weed Area, Residence (distance), Cultural Resource Site (distance) etc.):			In or w/in 50' of a wetland: ☐ Yes ☒ No		
☐ Noxious Weed Area ☐ Raptor Nest ☐ Residence (Distance) ☒ T/E Species Habitat ☒ Cultural Resource Site ☐ Water Well ☐ Other (Specify):			In or w/in 50' of a waterbody: ☒ Yes ☐ No		
46WZ126 (180 feet due northwest-Not Eligible); MYSO (+0.09ac KUSH)			Wetland or Waterbody ID: N/A		
Additional Stream footage impacted:			0.00	Additional Wetland acreage impacted:	
				0.00	
Net acreage affected:			+0.41		
Tree Clearing Required:			YES	Acreage of tree clearing:	+ 0.09
Variance Level: ☐ Level 1 ☐ Level 2 ☒ Level 3					
Variance From: ☒ Permit ☐ Plan ☐ Procedures ☐ EPPM ☐ Specification ☐ Drawing ☐ Mitigation Measure					
☐ Line List			☐ Other: Describe:		
Detailed Description of Variance: Attachments? ☒ Yes ☐ No Photos? ☐ Yes ☒ No					
This variance adds MVP-ATWS-SM-068 & MVP-ATWS-SM-069 for slip remediation. No wetlands were found during delineations. Streams S-A124, S-A125, and S-A126 were found during delineations. All Streams are outside of the LOD and will incur no impacts. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area. Silt fence has already been installed within the variance area below the slip to protect dislodged sediment from entering streams. Cultural Resource 46WZ126 was identified during surveys. It was deemed to be Not Eligible. Letters of Concurrence can be found in Attachment 4. This variance has a net increase of 0.41 acres of LOD from the original permit. There is a net increase in tree clearing of 0.09 acres of MYSO - Known Use Summer Habitat (KUSH). On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.					
List Attachments:		Attachment 1 - Alignment Sheet; Attachment 2 - Rare, Threatened, and Endangered Species Report; Attachment 3 - Stream and Wetland Delineation Report; Attachment 4 - Cultural Resource Reports and Concurrences (CUI//PRIV -- DO NOT RELEASE); Attachment 5 - Landowner Exhibits (CUI//PRIV -- DO NOT RELEASE); Attachment 6 - Variance Request Map			
Variance Justification:					

Necessary for slip remediation.

For MVP Use Only

Additional Surveys Required	Surveyed Corridor Description	Additional Surveys Completed
Cultural Survey ☒ Yes ☐ No	The locations for this variance request were evaluated for cultural resources, waterbodies and wetlands, threatened and endangered species, and habitat. See the attached cover page list of reports.	☒ Yes ☐ No
T & E Survey ☐ Yes ☒ No		☐ Yes ☒ No
Waterbodies/Wetlands ☒ Yes ☐ No		☒ Yes ☐ No

Proof of Previous Biological and Cultural Survey Clearance

See attachments 2 and 3 that describe rare, threatened, and endangered species surveys and stream and wetland delineations. USFWS Biological Opinion was issued on 10/31/2017. The cultural resources survey was reported in: Mountain Valley Pipeline Project, Cultural Resource Survey, Volume I, Wetzel, Harrison, Doddridge, and Lewis Counties, West Virginia (Espino et al. 2015 July 2015); Mountain Valley Pipeline Project, Slip Mitigation Workspaces MVP-ATWS-SM-068 and MVP-ATWS-SM-069. Request for Concurrence on Disturbance and No Further Survey Recommendations (Hockersmith March 2019). Filed with FERC 9/12/2015; was filed with FERC on 3/25/2019. Clearance received from WVDCH 10/6/2015; 3/18/2019. The Concurrence Letter is provided in Attachment 4.

Landowner:**REDACTED****Land Agent Contact****JANNA ARNOLD****Landowner Approval
Obtained**☒ Yes ☐ No**Sign Off:****Name****Signature****Date**

Construction Manager	<i>Todd Carroll</i>	<i>Todd Carroll</i>	3/26/2019
Lead Environmental Inspector	<i>Travis Huskins</i>	<i>Travis Huskins</i>	3/26/2019
Third Party Compliance Manager or monitor			
ROW Land Agent *	<i>Janna Arnold</i>	<i>Janna Arnold</i>	3/26/2019
Environmental Supervisor	<i>Megan Neylon</i>	<i>Megan Neylon</i>	3/26/2019

*signature denotes confirmed landowner approval

For FERC Compliance Monitor and Compliance Manager Use Only					
Variance Approved:			Variance Denied:		
Beyond Authority:					
Signature: _____					
Date:					
Stipulations:					
Spread No.: A			Variance Request No.: A-48		
VARIANCE CONDITIONS					
Name:			Title:		
Organization:					
Conditions:					
Name:		Title:		Organization:	
Conditions:					
Name:		Title:		Organization:	
Conditions:					

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Alignment Sheets
Attachment 1**

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Rare, Threatened, and Endangered Species Report
Attachment 2**

**Mountain Valley Pipeline Project
Variance A-48
March 18, 2019**

State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to RTE aquatic resources associated with this variance.

The only avian species-specific presence-absence surveys required for the project are scrub-shrub habitat-specific in the state of Virginia, thus do not apply to this variance area.

The modification of the tree clearing results in a net increase of 0.09 acres MYSO - Known Use Summer Habitat (KUSH). Tree clearing will not occur between April 1st and November 14th as per the BO. On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

On 2/12/2015 Environmental Solutions and Innovations, Inc. (ESI) conducted field surveys to search for portal openings (winter bat habitat). Surveys were conducted in accordance with agency approved protocols for the project. No portal openings were observed in the variance area.

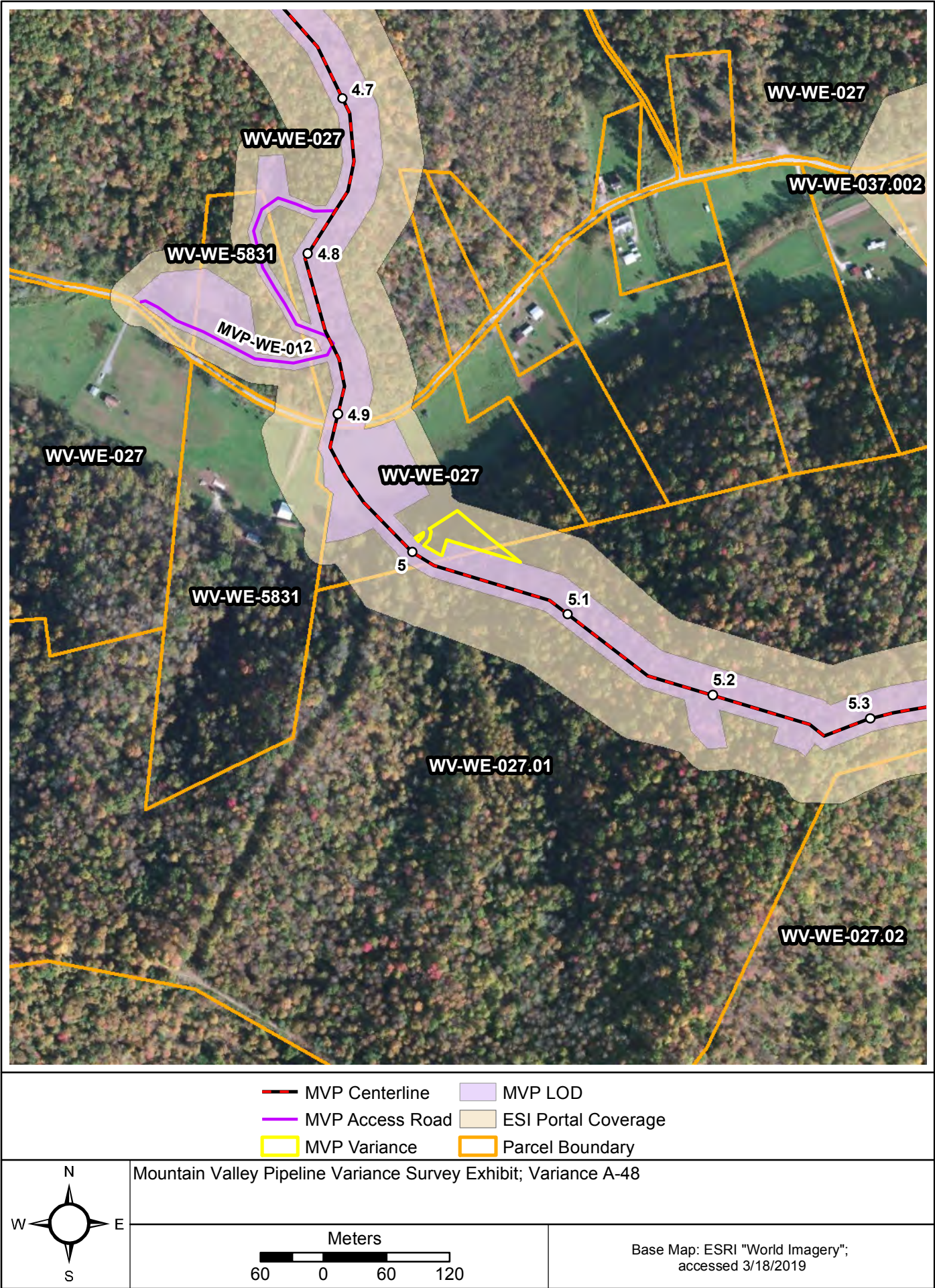


Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Remaining bank acreage from IP-5 table	0.37	1.47	13.04	6.81	13.79	0.59
Bradshaw ATWS	0.02	0.00	0.00	0.00	0.00	0.00
ATWS 1544	0.03	0.00	0.00	0.00	0.00	0.00
ATWS 1545	0.10	0.00	0.00	0.00	0.00	0.00
LY-27	0.00	0.00	0.00	0.00	0.15	0.00
LY-45/46	0.00	0.00	0.00	0.00	0.05	0.00
Variance A-4 - MP 24.6	0.00	0.00	0.00	0.00	0.06	0.00
Bradshaw Slip Repair Phase 1	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-5 - MP 28.97	0.00	0.00	-0.51	0.00	0.09	0.00
Variance H-3 - MP 234.85	0.00	0.00	0.91	0.00	0.00	0.00
Variance F-3 - MP 159.27	0.00	0.00	-0.42	0.00	0.00	0.00
Variance H-2 - MP 240.00	0.00	0.00	0.09	0.00	2.74	0.00
Variance E-4 - LY-058	0.00	0.00	0.00	0.00	0.01	0.00
Variance E-5 - MP 133.46	0.00	0.00	0.27	0.00	0.00	0.00
Variance I-2 - MP-268.8	0.00	0.00	0.00	0.00	0.45	0.00
Variance I-4 - MP 300.7	0.00	0.00	0.00	0.00	0.18	0.00
Variance G-3 - MP 224.1	0.00	0.00	0.00	1.67	0.00	0.00
Variance B-2 - MP 42.7	0.00	0.00	1.45	0.00	0.00	0.00
Variance H-5 - MP 257.9 & 258.2	0.00	0.00	0.39	0.00	0.00	0.00
Variance I-5 - MP 261.47	0.00	0.00	-0.25	0.00	0.00	0.00
Variance H-6 - MP 235.58	0.00	0.00	0.39	0.00	0.20	0.00
Variance F-6 - MP 176.8	0.00	0.00	0.00	0.00	0.08	0.00
Variance D-4 - MP 110.1	0.00	0.00	0.08	0.00	0.00	0.00
Variance E-6 - MP 143.9	0.00	0.00	0.00	0.00	0.08	0.00
Variance F-5 MP 166.07	0.00	0.00	0.24	0.00	0.00	0.00
Variance D-7 - MP 119.0	0.00	0.00	2.64	0.00	0.00	0.00
Variance D-6 - MP 115.74 & 115.85	0.00	0.00	1.22	0.00	0.00	0.00
Variance B-3 - MP 60.29	0.00	0.00	0.01	0.00	0.27	0.00
Variance C-6 - MP 79.46	0.00	0.00	0.00	0.00	-0.21	0.00
Variance C-2 - MP 82	0.00	0.00	0.00	0.00	1.11	0.00
Bradshaw Phase II	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-11 (MP 23.8)	0.00	0.00	0.00	0.00	0.30	0.00
Variance I-10 (MP 266.3)	0.00	0.00	0.00	0.00	-0.64	0.00
Variance A-12 (MP 6.8)	0.01	0.00	0.00	0.00	0.00	0.00
Variance B-7 (MP 60.07)	0.00	0.00	0.00	0.00	1.51	0.00
Variance A-15 (MP 12)	0.00	0.00	0.00	0.00	0.19	0.00
Variance H-7 (MP 238.3) - Transco Credit	0.00	0.00	-11.25	0.00	0.00	0.00
Variance H-7 (MP 238.3)	0.00	0.00	8.37	0.00	0.27	0.00
Variance I-12 (LY-035 Ext)	0.00	0.00	0.00	0.00	0.01	0.00
Variance H-9 (MP 237.5)	0.00	0.00	0.00	0.00	0.24	0.00
Variance D-17 (MP 108.17)	0.00	0.00	4.08	0.00	0.43	0.00
Variance E-10 (MP 149.45)	0.00	0.00	0.00	0.00	0.21	0.00
Variance C-10 (MP 68.4)	0.00	0.00	0.00	0.00	2.34	0.00
Variance C-11 (MP 86.3)	0.00	0.00	0.00	0.00	1.84	0.00

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Variance A-14 (MP 6.5)	0.05	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-WE-014 & ATWSs credit	-12.96	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-LY-024 credit	-0.86	0.00	0.00	0.00	0.00	0.00
Variance B-10 (MP 35.1)	0.00	0.00	0.34	0.00	0.00	0.00
Variance A-23 (MP 0.10)	0.87	0.00	0.00	0.00	0.00	0.00
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Variance A-25 (MP 2.10)	1.20	0.00	0.00	0.00	0.00	0.00
Variance C-12 (MP 84.3)	0.00	0.00	0.00	0.00	1.45	0.00
Variance C-13 (MP 68.9)	0.00	0.00	0.00	0.00	0.33	0.00
Variance A-27 (MP 3.4)	0.16	0.00	0.00	0.00	0.00	0.00
Variance G-6 (MP 210.0)	0.00	0.37	0.00	0.00	0.00	0.00
Variance A-26 (MP 4.0)	1.92	0.00	0.00	0.00	0.00	0.00
Variance C-14 (MP 84.4)	0.00	0.00	0.00	0.00	0.15	0.00
Variance C-14 (MP 84.4) - MVP-LE-066.01 credit	0.00	0.00	0.00	0.00	-1.30	0.00
Variance A-29 (MP 1.9)	0.06	0.00	0.00	0.00	0.00	0.00
Variance A-30 (MP 3.9)	1.36	0.00	0.00	0.00	0.00	0.00
Variance G-7 (MP 199.52)	0.00	0.00	0.00	0.07	0.00	0.00
Variance B-11 (MP 52.6)	0.00	0.00	0.60	0.00	0.00	0.00
Variance B-13 (MP 50.3)	0.00	0.00	0.39	0.00	0.00	0.00
Variance A-20 (MP 5.7 - 6.0)	1.72	0.00	0.00	0.00	0.00	0.00
Variance Transco-1	0.00	0.00	0.11	0.00	0.00	0.00
Variance G-9 (MP 209.42)	0.00	0.29	0.00	0.00	0.00	0.00
Variance A-34 (MP 7.9)	0.42	0.00	0.00	0.00	0.00	0.00
Variance A-36 (MP 8.6)	0.11	0.00	0.00	0.00	0.00	0.00
Variance A-41 (MP 1.2)	0.22	0.00	0.00	0.00	0.00	0.00
Variance B-16 (MP 47.13)	0.00	0.00	0.00	0.00	0.31	0.00
Variance A-39 (MP 32.40)	0.00	0.00	0.00	0.00	0.59	0.00
Variance A-42 (MP 3.16)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-44 (MP 6.62)	0.14	0.00	0.00	0.00	0.00	0.00
Variance A-45 (MP 9.10)	0.04	0.00	0.00	0.00	0.00	0.00
Variance A-29 (MP 0.9)	0.30	0.00	0.00	0.00	0.00	0.00
Variance A-51 (MP 2.1)	0.29	0.00	0.00	0.00	0.00	0.00
Variance A-46 (MP 2.65)	0.02	0.00	0.00	0.00	0.00	0.00
Variance A-50 (MP 4.0)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-49 (MP 4.2)	0.56	0.00	0.00	0.00	0.00	0.00
Variance A-32 (MP 3.65)	1.29	0.00	0.00	0.00	0.00	0.00
Variance A-54 (MP 6.5)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-48 (MP 5.05)	0.09	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	1.34	0.81	3.89	5.07	0.30	0.59

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Waterbodies and Wetlands Report
Attachment 3**

Mountain Valley Pipeline Project

Variance A-48

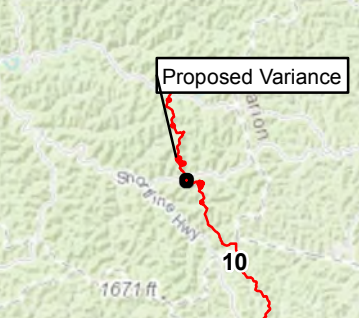
March 18, 2019

On June 2, 2015 and March 13, 2019 Tetra Tech, Inc. (Tetra Tech) surveyed the proposed variance in Wetzel Co., WV for wetlands and streams. Wetland delineations were conducted utilizing the Routine On-Site Determination Methodology presented in the US Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

During field surveys, Tetra Tech did not identify any wetlands or streams in the variance area as shown on the attached figure.

Three streams were identified and delineated in the vicinity of the variance area (S-A124, S-A125 and S-A126), as shown on the attached figure, but are not impacted by the variance.



Mountain Valley Pipeline Project		NAD 1983 UTM 17N 1 inch = 100 feet 0 50 100 200 Feet	
 Proposed Variance A-48 Wetzel County, West Virginia March 2019	Legend		
	Issued for Construction LOD Proposed Variance Limit of Disturbance Culvert	Ephemeral Stream Intermittent Stream Perennial Stream	
Data Sources: ESRI Streaming Data 2014.			

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Pipeline Variance
Request Map
Attachment 6**



Mountain Valley Pipeline Project		N	NAD 1983 UTM 17N	0 50 100 200 300 400 Feet
 FERC Docket No. CP16-10-000 MVP Variance A-48 WETZEL COUNTY March 2019	Legend		Proposed Variance Additional Temporary Workspace	
	Issued for Construction Milepost Issued for Construction Route Issued for Construction Limits of Disturbance Parcel Boundary			
Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.				

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MVP Variance Request Form				Variance Request			
				Variance Request No.:	A-49		
				Date Approval Requested by Contractor:	2/15/2019		
				Date Submitted by Chief Inspector to LEI:	2/17/2019		
				Date Received by FERC:			
FERC Approval Reference No.:							
Requested By:	Brent Ladd		Spread:	A	Variance Type:	WS	
Request Prepared By *:	Megan Neylon		Variance Sequence Number:		049		
* The FERC compliance monitor should be alerted and given a copy of the draft variance for review prior to submittal.							
Location (Use either Station or Milepost)							
Station:	228+28	To:	232+24	Milepost:	4.20	To:	4.20
Alignment Sheet Number:	5	Tract No.:		WV-WE-018.11; WV-WE-018.08; WV-WE-6217			
Current Land Use/Vegetative Cover:	Deciduous Forest		Other Agency Jurisdiction:	N/A			
Nearby Features (Water body, T&E Habitat, Wetland, Noxious Weed Area, Residence (distance), Cultural Resource Site (distance) etc.):				In or w/in 50' of a wetland: ☐ Yes ☒ No			
☐ Noxious Weed Area ☐ Raptor Nest ☐ Residence (Distance) ☒ T/E Species Habitat ☐ Cultural Resource Site ☐ Water Well ☐ Other (Specify):				In or w/in 50' of a waterbody: ☒ Yes ☐ No			
MYSO (+ 0.56ac KUSH)				Wetland or Waterbody ID: N/A			
Additional Stream footage impacted:				Additional Wetland acreage impacted:			
0.00				0.00			
Net acreage affected:				+ 3.46			
Tree Clearing Required:				YES			
Acreage of tree clearing:				+ 0.56			
Variance Level: ☐ Level 1 ☐ Level 2 ☒ Level 3							
Variance From: ☒ Permit ☐ Plan ☐ Procedures ☐ EPPM ☐ Specification ☐ Drawing ☐ Mitigation Measure							
☐ Line List ☐ Other: Describe:							
Detailed Description of Variance: Attachments? ☒ Yes ☐ No Photos? ☐ Yes ☒ No							
This variance adds MVP-ATWS-SM-064 for slip remediation. No wetlands or cultural resources were found during delineations. Two streams S-HK05 and S-HK06 were found during delineations but are outside of the LOD and will incur no impacts. This variance has a net increase of 3.46 acres of LOD from the original permit. There is a net increase in tree clearing of 0.56 acres. The modification of the tree clearing results in a net increase of 0.56 acres MYSO - Known Use Summer Habitat (KUSH). On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area.							
List Attachments:	Attachment 1 - Alignment Sheet; Attachment 2 - Rare, Threatened, and Endangered Species Report; Attachment 3 - Stream and Wetland Delineation Report; Attachment 4 - Cultural Resource Reports and Concurrences (CUI//PRIV -- DO NOT RELEASE); Attachment 5 - Landowner Exhibits (CUI//PRIV -- DO NOT RELEASE); Attachment 6 - Variance Request Map						
Variance Justification:							
Necessary for slip remediation. Resources have been avoided to the extent practicable. Per approved Project plans, BMPs will be installed to minimize impacts to any Environmentally Sensitive Areas within/abutting the area.							

For MVP Use Only			
Additional Surveys Required		Surveyed Corridor Description	Additional Surveys Completed
Cultural Survey	☒ Yes ☐ No	The locations for this variance request were evaluated for cultural resources, waterbodies and wetlands, threatened and endangered species, and habitat. See the attached cover page list of reports.	☒ Yes ☐ No
T & E Survey	☒ Yes ☐ No		☒ Yes ☐ No
Waterbodies/Wetlands	☒ Yes ☐ No		☒ Yes ☐ No
Proof of Previous Biological and Cultural Survey Clearance			
See attachments 2 and 3 that describe rare, threatened, and endangered species surveys and stream and wetland delineations. USFWS Biological Opinion was issued on 10/31/2017. Additional survey conducted 2/14/2015; 3/12/2019. The cultural resources survey was reported in: Mountain Valley Pipeline Project, Cultural Resource Survey, Volume I, Wetzel, Harrison, Doddridge, and Lewis Counties, West Virginia (Espino et al. 2015 July 2015); Mountain Valley Pipeline Project, Slip Mitigation Workspaces MVP-ATWS-SM-030 (Ext), MVP-ATWS-SM-016 (Ext), and MVP-ATWS-SM-064. Request for Concurrence on Disturbance and No Further Survey Recommendations (Hockersmith March 2019). Filed with FERC 9/12/2015; 3/25/2019. Clearance received from WVDCH 10/6/2015; 3/18/2019. The Concurrence Letter is provided in Attachment 4.			
Landowner: Land Agent Contact Landowner Approval ☒ Yes ☐ No Obtained		REDACTED JANNA ARNOLD	
Sign Off:			
	Name	Signature	Date
Construction Manager	<i>Todd Carroll</i>	<i>Todd Carroll</i>	3/22/2019
Lead Environmental Inspector	<i>Travis Huskins</i>	<i>Travis Huskins</i>	3/22/2019
Third Party Compliance Manager or monitor			
ROW Land Agent *	<i>Janna Arnold</i>	<i>Janna Arnold</i>	3/22/2019
Environmental Supervisor	<i>Megan Neylon</i>	<i>Megan Neylon</i>	3/22/2019
*signature denotes confirmed landowner approval			

For FERC Compliance Monitor and Compliance Manager Use Only					
Variance Approved:			Variance Denied:		
Beyond Authority:					
Signature: _____					
Date:					
Stipulations:					
Spread No.: A			Variance Request No.: A-49		
VARIANCE CONDITIONS					
Name:			Title:		
Organization:					
Conditions:					
Name:		Title:		Organization:	
Conditions:					
Name:		Title:		Organization:	
Conditions:					

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Alignment Sheets
Attachment 1**

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN

ENVIRONMENTAL

PIPE / COATING

SLOPE DISTANCE

CLASS LOCATION / HCA

CONSTRUCTION EXCLUSION

WETLAND / STREAM

179+09

1

486'

181+87

4

80'

184+07

1

474'

189+22

4

120'

190+42

2

288'

193+34

4

40'

194+45

4

125'

194+49

4

40'

EQUATION:
195+49 BACK=
195+91 AHEAD

1

3895'

179+09

TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31
SEE TREE CLEARING PLAN FOR FURTHER DETAILS

179+09

234+11

234+11

PLAN VIEW

LEGEND

179+09 MATCH LINE - SEE SHEET PA-WEWV-H600-04

179+91 Δ 8°02'19"RT

182+00

184+00

186+33 Δ 36°10'55"LT

188+38 Δ 10°44'47"LT

190+75 Δ 15°52'58"LT

192+78 Δ 23°54'41"RT

EQUATION: 195+49 BACK=
195+91 Δ 33°13'19"LT AHEAD

196+48 Δ 19°29'55"RT

202+48 Δ 35°23'01"RT

207+48 Δ 20°35'44"LT

208+75 Δ 15°55'04"RT

210+63 Δ 8°19'32"LT

214+88 Δ 22°59'48"LT

216+10 Δ 8°33'08"LT

217+34 Δ 11°37'23"LT

218+51 Δ 9°20'03"RT

220+07 Δ 27°54'04"LT

224+75 Δ 9°14'30"LT

228+28 Δ 42°44'50"RT

229+47 Δ 7°49'59"RT

232+24 Δ 6°13'37"RT

235+45 Δ 11°02'25"RT

234+11 MATCH LINE - SEE SHEET PA-WEWV-H600-06

WETZEL COUNTY, WEST VIRGINIA

MP 3.5

MP 4.0

PROPOSED 42" H600 MOUNTAIN VALLEY PIPELINE

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**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Rare, Threatened, and Endangered Species Report
Attachment 2**

**Mountain Valley Pipeline Project
Variance A-49
March 18, 2019**

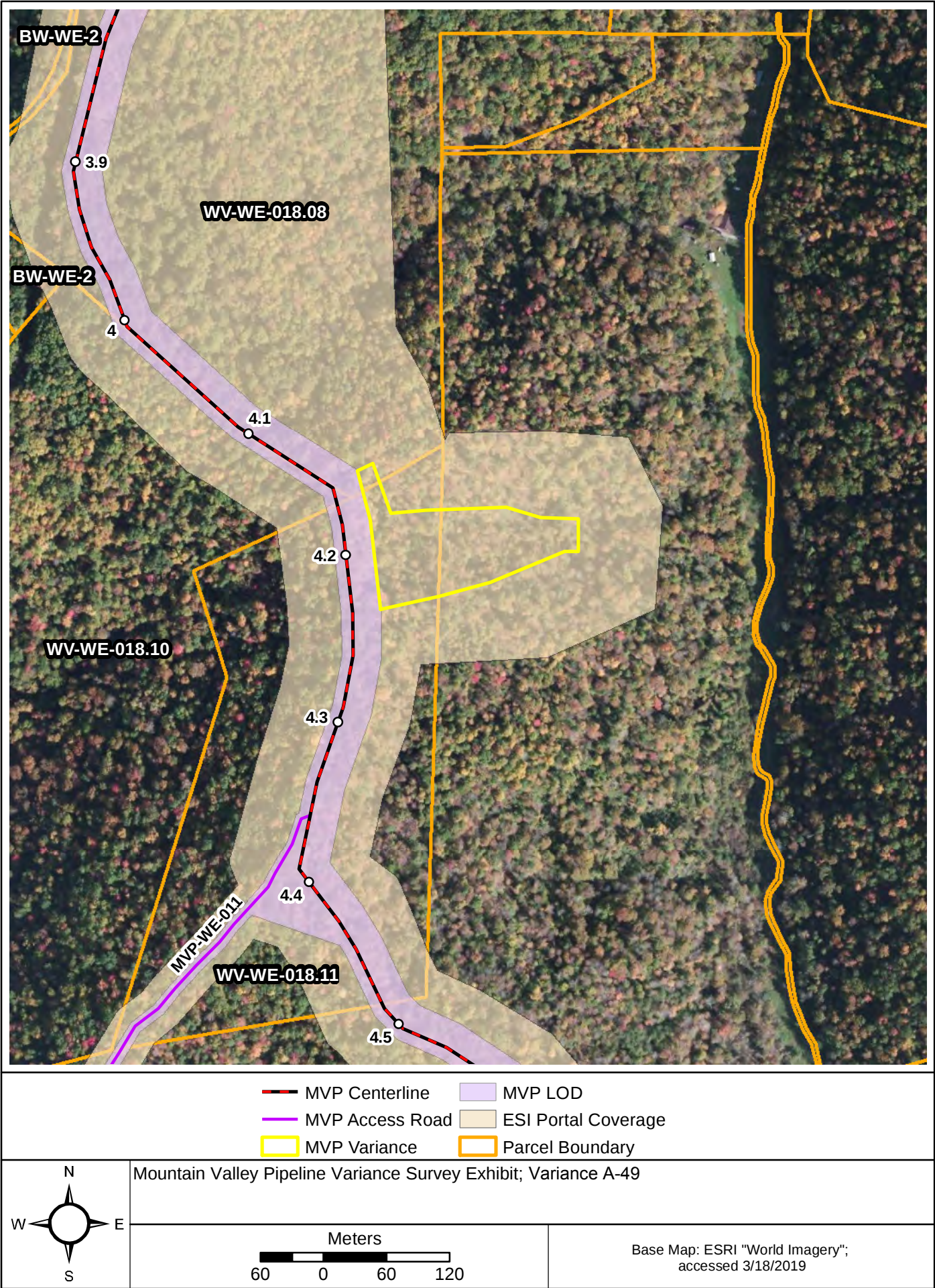
State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to aquatic resources associated with this variance. Which infers there no impacts to listed aquatic species.

The only avian species-specific presence-absence surveys required for the project are scrub-shrub habitat-specific in the state of Virginia, thus do not apply to this variance area.

The modification of the tree clearing results in a net increase of 0.56 acres MYSO - Known Use Summer Habitat (KUSH). Tree clearing will not occur between April 1st and November 14th as per the BO. On January 29, 2018 the USFWS concurred with MVP's proposed process for reviewing variances that require tree clearing. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

On 2/14/2015 and 3/12/2019, Environmental Solutions and Innovations, Inc. (ESI) conducted field surveys to search for portal openings (winter bat habitat). Surveys were conducted in accordance with agency approved protocols for the project. No portal openings were observed in the variance area.



**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Waterbodies and Wetlands Report
Attachment 3**

Mountain Valley Pipeline Project

Variance A-49

March 18, 2019

On March 9, 2019 Tetra Tech, Inc. (Tetra Tech) surveyed the proposed variance in Wetzel Co., WV for wetlands and streams. Wetland delineations were conducted utilizing the Routine On-Site Determination Methodology presented in the US Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

During field surveys, Tetra Tech did not identify any wetlands or streams in the variance area as shown on the attached figure.

Two streams were identified and delineated in the vicinity of the variance area (S-HK05 and S-HK06), as shown on the attached figure, but are not impacted by the variance.



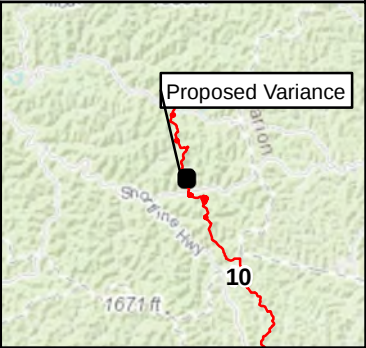
Mountain Valley Pipeline Project		N ▲	NAD 1983 UTM 17N	1 inch = 200 feet	0 100 200 400 Feet
 Proposed Variance A-49 Wetzel County, West Virginia March 2019	Legend				
	 Issued for Construction LOD  Proposed Variance Limit of Disturbance	 Ephemeral Stream  PEM Wetland			
Data Sources: ESRI Streaming Data 2014.					

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Remaining bank acreage from IP-5 table	0.37	1.47	13.04	6.81	13.79	0.59
Bradshaw ATWS	0.02	0.00	0.00	0.00	0.00	0.00
ATWS 1544	0.03	0.00	0.00	0.00	0.00	0.00
ATWS 1545	0.10	0.00	0.00	0.00	0.00	0.00
LY-27	0.00	0.00	0.00	0.00	0.15	0.00
LY-45/46	0.00	0.00	0.00	0.00	0.05	0.00
Variance A-4 - MP 24.6	0.00	0.00	0.00	0.00	0.06	0.00
Bradshaw Slip Repair Phase 1	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-5 - MP 28.97	0.00	0.00	-0.51	0.00	0.09	0.00
Variance H-3 - MP 234.85	0.00	0.00	0.91	0.00	0.00	0.00
Variance F-3 - MP 159.27	0.00	0.00	-0.42	0.00	0.00	0.00
Variance H-2 - MP 240.00	0.00	0.00	0.09	0.00	2.74	0.00
Variance E-4 - LY-058	0.00	0.00	0.00	0.00	0.01	0.00
Variance E-5 - MP 133.46	0.00	0.00	0.27	0.00	0.00	0.00
Variance I-2 - MP-268.8	0.00	0.00	0.00	0.00	0.45	0.00
Variance I-4 - MP 300.7	0.00	0.00	0.00	0.00	0.18	0.00
Variance G-3 - MP 224.1	0.00	0.00	0.00	1.67	0.00	0.00
Variance B-2 - MP 42.7	0.00	0.00	1.45	0.00	0.00	0.00
Variance H-5 - MP 257.9 & 258.2	0.00	0.00	0.39	0.00	0.00	0.00
Variance I-5 - MP 261.47	0.00	0.00	-0.25	0.00	0.00	0.00
Variance H-6 - MP 235.58	0.00	0.00	0.39	0.00	0.20	0.00
Variance F-6 - MP 176.8	0.00	0.00	0.00	0.00	0.08	0.00
Variance D-4 - MP 110.1	0.00	0.00	0.08	0.00	0.00	0.00
Variance E-6 - MP 143.9	0.00	0.00	0.00	0.00	0.08	0.00
Variance F-5 MP 166.07	0.00	0.00	0.24	0.00	0.00	0.00
Variance D-7 - MP 119.0	0.00	0.00	2.64	0.00	0.00	0.00
Variance D-6 - MP 115.74 & 115.85	0.00	0.00	1.22	0.00	0.00	0.00
Variance B-3 - MP 60.29	0.00	0.00	0.01	0.00	0.27	0.00
Variance C-6 - MP 79.46	0.00	0.00	0.00	0.00	-0.21	0.00
Variance C-2 - MP 82	0.00	0.00	0.00	0.00	1.11	0.00
Bradshaw Phase II	0.01	0.00	0.00	0.00	0.00	0.00
Variance A-11 (MP 23.8)	0.00	0.00	0.00	0.00	0.30	0.00
Variance I-10 (MP 266.3)	0.00	0.00	0.00	0.00	-0.64	0.00
Variance A-12 (MP 6.8)	0.01	0.00	0.00	0.00	0.00	0.00
Variance B-7 (MP 60.07)	0.00	0.00	0.00	0.00	1.51	0.00
Variance A-15 (MP 12)	0.00	0.00	0.00	0.00	0.19	0.00
Variance H-7 (MP 238.3) - Transco Credit	0.00	0.00	-11.25	0.00	0.00	0.00
Variance H-7 (MP 238.3)	0.00	0.00	8.37	0.00	0.27	0.00
Variance I-12 (LY-035 Ext)	0.00	0.00	0.00	0.00	0.01	0.00
Variance H-9 (MP 237.5)	0.00	0.00	0.00	0.00	0.24	0.00
Variance D-17 (MP 108.17)	0.00	0.00	4.08	0.00	0.43	0.00
Variance E-10 (MP 149.45)	0.00	0.00	0.00	0.00	0.21	0.00
Variance C-10 (MP 68.4)	0.00	0.00	0.00	0.00	2.34	0.00
Variance C-11 (MP 86.3)	0.00	0.00	0.00	0.00	1.84	0.00

Table 1
Bat Habitat Bank Acreage

	MYSO - Known Summer Use Habitat (acres)	MYSO - Known use spring staging/fall swarming habitat (acres)	MYSO - Suitable Unoccupied Summer Habitat (acres)	MYSO - Unknown use spring staging/fall swarming habitat (acres)	MYSO - Unknown Use Summer Habitat (acres)	NLEB known use spring staging/fall swarming habitat (acres)
Variance A-14 (MP 6.5)	0.05	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-WE-014 & ATWSs credit	-12.96	0.00	0.00	0.00	0.00	0.00
Variance A-14 (MP 6.5) - MVP-LY-024 credit	-0.86	0.00	0.00	0.00	0.00	0.00
Variance B-10 (MP 35.1)	0.00	0.00	0.34	0.00	0.00	0.00
Variance A-23 (MP 0.10)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-24 (MP 2.65)	0.82	0.00	0.00	0.00	0.00	0.00
Variance A-25 (MP 2.10)	1.20	0.00	0.00	0.00	0.00	0.00
Variance C-12 (MP 84.3)	0.00	0.00	0.00	0.00	1.45	0.00
Variance C-13 (MP 68.9)	0.00	0.00	0.00	0.00	0.33	0.00
Variance A-27 (MP 3.4)	0.16	0.00	0.00	0.00	0.00	0.00
Variance G-6 (MP 210.0)	0.00	0.37	0.00	0.00	0.00	0.00
Variance A-26 (MP 4.0)	1.92	0.00	0.00	0.00	0.00	0.00
Variance C-14 (MP 84.4)	0.00	0.00	0.00	0.00	0.15	0.00
Variance C-14 (MP 84.4) - MVP-LE-066.01 credit	0.00	0.00	0.00	0.00	-1.30	0.00
Variance A-29 (MP 1.9)	0.06	0.00	0.00	0.00	0.00	0.00
Variance A-30 (MP 3.9)	1.36	0.00	0.00	0.00	0.00	0.00
Variance G-7 (MP 199.52)	0.00	0.00	0.00	0.07	0.00	0.00
Variance B-11 (MP 52.6)	0.00	0.00	0.60	0.00	0.00	0.00
Variance B-13 (MP 50.3)	0.00	0.00	0.39	0.00	0.00	0.00
Variance A-20 (MP 5.7 - 6.0)	1.72	0.00	0.00	0.00	0.00	0.00
Variance Transco-1	0.00	0.00	0.11	0.00	0.00	0.00
Variance G-9 (MP 209.42)	0.00	0.29	0.00	0.00	0.00	0.00
Variance A-34 (MP 7.9)	0.42	0.00	0.00	0.00	0.00	0.00
Variance A-36 (MP 8.6)	0.11	0.00	0.00	0.00	0.00	0.00
Variance A-41 (MP 1.2)	0.22	0.00	0.00	0.00	0.00	0.00
Variance B-16 (MP 47.13)	0.00	0.00	0.00	0.00	0.31	0.00
Variance A-39 (MP 32.40)	0.00	0.00	0.00	0.00	0.59	0.00
Variance A-42 (MP 3.16)	0.08	0.00	0.00	0.00	0.00	0.00
Variance A-44 (MP 6.62)	0.14	0.00	0.00	0.00	0.00	0.00
Variance A-45 (MP 9.10)	0.04	0.00	0.00	0.00	0.00	0.00
Variance A-29 (MP 0.9)	0.30	0.00	0.00	0.00	0.00	0.00
Variance A-51 (MP 2.1)	0.29	0.00	0.00	0.00	0.00	0.00
Variance A-46 (MP 2.65)	0.02	0.00	0.00	0.00	0.00	0.00
Variance A-50 (MP 4.0)	0.87	0.00	0.00	0.00	0.00	0.00
Variance A-49 (MP 4.2)	0.56	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	2.80	0.81	3.89	5.07	0.30	0.59

**Mountain Valley Pipeline, LLC
Mountain Valley Pipeline Project
Docket No. CP16-10-000**

**Pipeline Variance
Request Map
Attachment 6**



Data Sources: ESRI Aerial Imagery, All Issued for Construction data was filed with FERC on 12/20/2017.

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