MVP Variance Request Form

Variance Request No.:	A-47
Date Approval Requested by Contractor:	2/10/2019
Date Submitted by Chief Inspector to LEI:	2/12/2019
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:**	047

* 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:	299+75	**To:**	300+42	**Milepost:**	5.52	**To:**	5.52
Alignment Sheet Number:	7			**Tract No.:**	WV-WE-037		
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):

MYSO (+ 0.04ac KUSH)

In or w/in 50' of a wetland: ☑ Yes ☐ No

In or w/in 50' of a waterbody: ☑ Yes ☐ No

Wetland or Waterbody ID: W-A27-PEM, W-A27-PFO; S-A118

Additional Stream footage impacted:	0.00	**Additional Wetland impacts:**	0.00
Net acreage affected:	+ 0.04		
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? ☑ Yes ☐ No Photos? ☐ Yes ☑ No

This variance adds Added MVP-ATWS-SM-027 for slip remediation. No cultural resources were found during surveys. Wetland W-A27-PEM, Wetland W-A27-PFO & Stream S-A118 were found during delineations. Wetland W-A27-PEM, Wetland W-A27-PFO & Stream S-A118 are all outside of the LOD and will incur no impacts. Resources have been avoided to the extent practicable. BMPs have been installed outside of the LOD to minimize impacts to any Environmentally Sensitive Areas within/abutting the area. This variance has a net increase of 0.04 acres of LOD from the original permit. This modification results in a new increase of 0.04 acre of tree clearing in MYSO - Known Use Summer Habitat (KUSH). On April 3, 2019, approval for Mountain Valley to cut these tress as part of a slip Emergency Endangered Species Act Consultation was filed with FERC. 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.

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:

Added ATWS 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). Filed with FERC 9/12/2015. Clearance received from WVDCH 9/12/2015. 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*	4/3/2019
Lead Environmental Inspector	*Travis Huskins*	*Travis Huskins*	4/3/2019
Third Party Compliance Manager or monitor			
ROW Land Agent *	*Janna Arnold*	*Janna Arnold*	4/3/2019
Environmental Supervisor	*Megan Neylon*	*Megan Neylon*	4/3/2019

*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-47

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

Station range	Parcel	Length
292+06 – 296+73	WV-WE-027.01	467 LF 493 SLOPE
296+73 – 306+80	WV-WE-037	1007 LF 1110 SLOPE
306+80 – 307+98	WV-WE-037 / WV-WE-027.02	118 LF 126 SLOPE
307+98 – 332+46	WV-WE-027.02	2448 LF 2508 SLOPE
332+46 – 334+41	WV-WE-037.01 / WV-WE-027.02	195 LF 196 SLOPE
334+41 – 342+09	WV-WE-037.01	768 LF 770 SLOPE
342+09 – 350+06	WV-WE-027.02	797 LF 823 SLOPE

DESIGN

PIPE / COATING	SLOPE DISTANCE
292+06 – 297+70: 1	627'
297+70 – 300+35: 2	280'
300+35 – 300+69: 4	40'
300+69 – 304+76: 2	440'
304+76 – 326+35: 1	2212'
326+35 – 326+75: 2	40'
326+75 – 350+06: 1	2387'

CLASS LOCATION / HCA: 1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION (292+06 – 350+06):

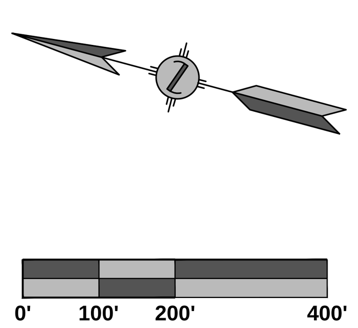
T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-A118 APRIL 1ST TO JUNE 30TH

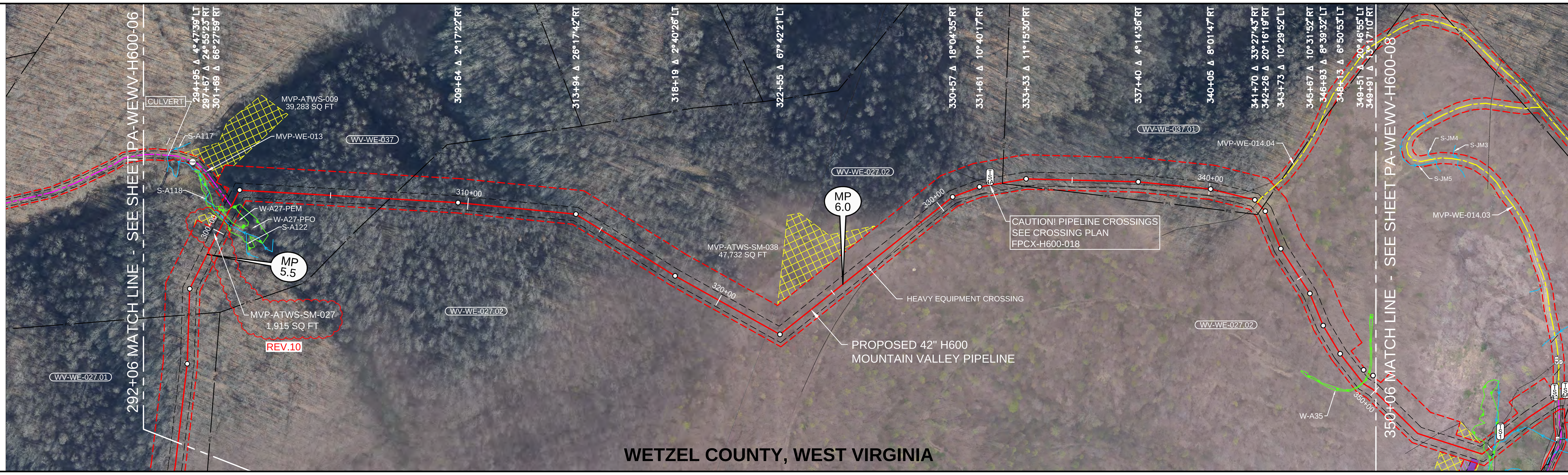
TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31
SEE TREE CLEARING PLAN FOR FURTHER DETAILS

WETLAND / STREAM:

W-A27-PFO	S-A118	W-A27-PEM	W-A27-PFO	W-A35
59 LF	6 LF	57 LF	30 LF	20 LF

PLAN VIEW





LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PI SYMBOL
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER/MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
MVP-AR-H600-01	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
FPCX-H600-018	FOREIGN PIPELINE X-ING PLAN
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING

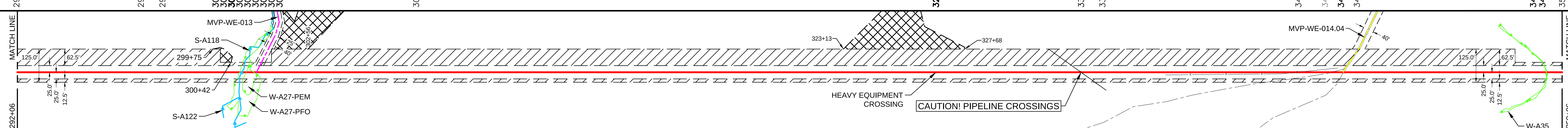
ISSUED FOR CONSTRUCTION

HORIZONTAL STATIONING

- 292+06 MATCH LINE
- 296+73 PROPERTY LINE
- 297+54 PROPERTY CORNER 5'RT
- 300+19 BEGIN WETLAND(W-A27-PFO)34'RT
- 300+49 ℄ STREAM(S-A118)
- **300+50 PROPOSED RIVER WEIGHT - STREAM**
- 300+52 BEGIN WETLAND(W-A27-PEM)29'RT
- 300+78 END WETLAND(W-A27-PFO)38'LT
- 300+95 BEGIN WETLAND(W-A27-PFO)38'RT
- 301+04 ACCESS ROAD-PERMANENT(MVP-WE-013)
- 301+09 END WETLAND(W-A27-PEM)10'RT
- 301+25 END WETLAND(W-A27-PFO)26'RT
- 307+16 PROPERTY LINE
- **326+55 HEAVY EQUIPMENT CROSSING**
- 332+00 PIPELINE - FOREIGN - ASCENT
- **PROPOSED TYPE 4 TEST STATION**
- 332+46 PROPERTY LINE
- 340+25 FENCE - WIRE
- 341+40 ℄ FIELD ROAD(DIRT)
- **341+83 ACCESS ROAD - TEMPORARY (MVP-WE-014.04)**
- 342+09 PROPERTY LINE
- 349+30 BEGIN WETLAND(W-A35)38'LT
- 349+50 END WETLAND(W-A35)23'RT
- 350+06 MATCH LINE

WORK SPACE

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)



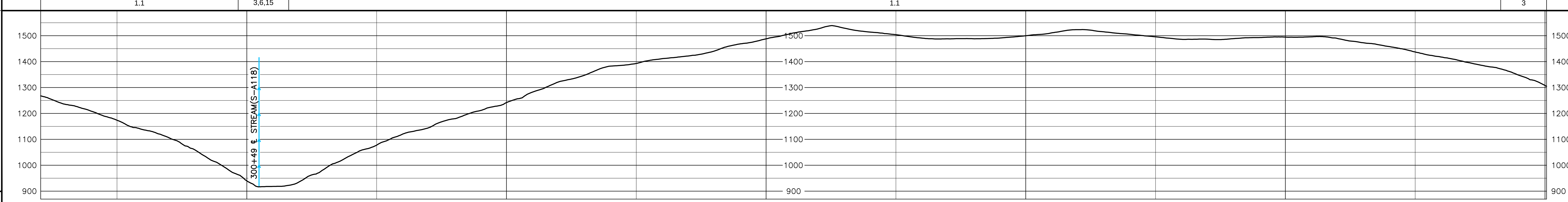
CONSTRUCTION METHOD

292+06 – 299+75	299+75 – 301+69	301+69 – 348+13	348+13 – 350+06
1.1	3,6,15	1.1	3

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE LEFT
2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
8 - RIDGE CONSTRUCTION
10 - HDD ENTRY PLAN
11 - HDD EXIT PLAN
12 - HDD CONSTRUCTION
13 - PARALLEL TO POWER LINE
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION
53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION
3	HEI	09-03-16	REV. 4.1.13 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	HEI	11-11-16	REMOVE EQUATIONS
6	HEI	11-27-17	ISSUED FOR CONSTRUCTION
7	HEI	04-13-18	ISSUED FOR CONSTRUCTION - FERC REVISION REQUEST
8	HEI	05-03-18	ISSUED FOR VARIANCE-ADDED ACCESS RD MVP-WE-014.03&.04
9	HEI	11-05-18	ISSUED FOR VARIANCE - ADDED MVP-ATWS-SM-038 FOR SLIP MITIGATION
10	HEI	11-06-18	ISSUED FOR VARIANCE - ADDED MVP-ATWS-SM-027 FOR SLIP MITIGATION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5226	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
2	760	42"O.D. X 0.740"W.T., X-70, FUSION BONDED EPOXY
4	40	42"O.D. X 0.740"W.T., X-70, FBE & ARO
	1	TYPE 4A TEST STATION - SINGLE LINE FOREIGN XING
	1	RIVER WEIGHTS

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
6	JJS	11-27-17
7	JJS	04-13-18

APPROVED FOR BIDDING

REV.	BY	DATE
3	RRR	09-03-16

APPROVED FOR FERC

REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16
6	JJS	11-27-17
7	JJS	04-13-18

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE GRANT DISTRICT,WETZEL CO.,W.V. STA. 292+06 TO STA. 350+06

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	3/11/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.: PA-WEWV-H600-07	
SHEET 07 OF 329	REV. 10
DATE OF PLOT: 11/5/18 2:43 PM	

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-47
October 2, 2018

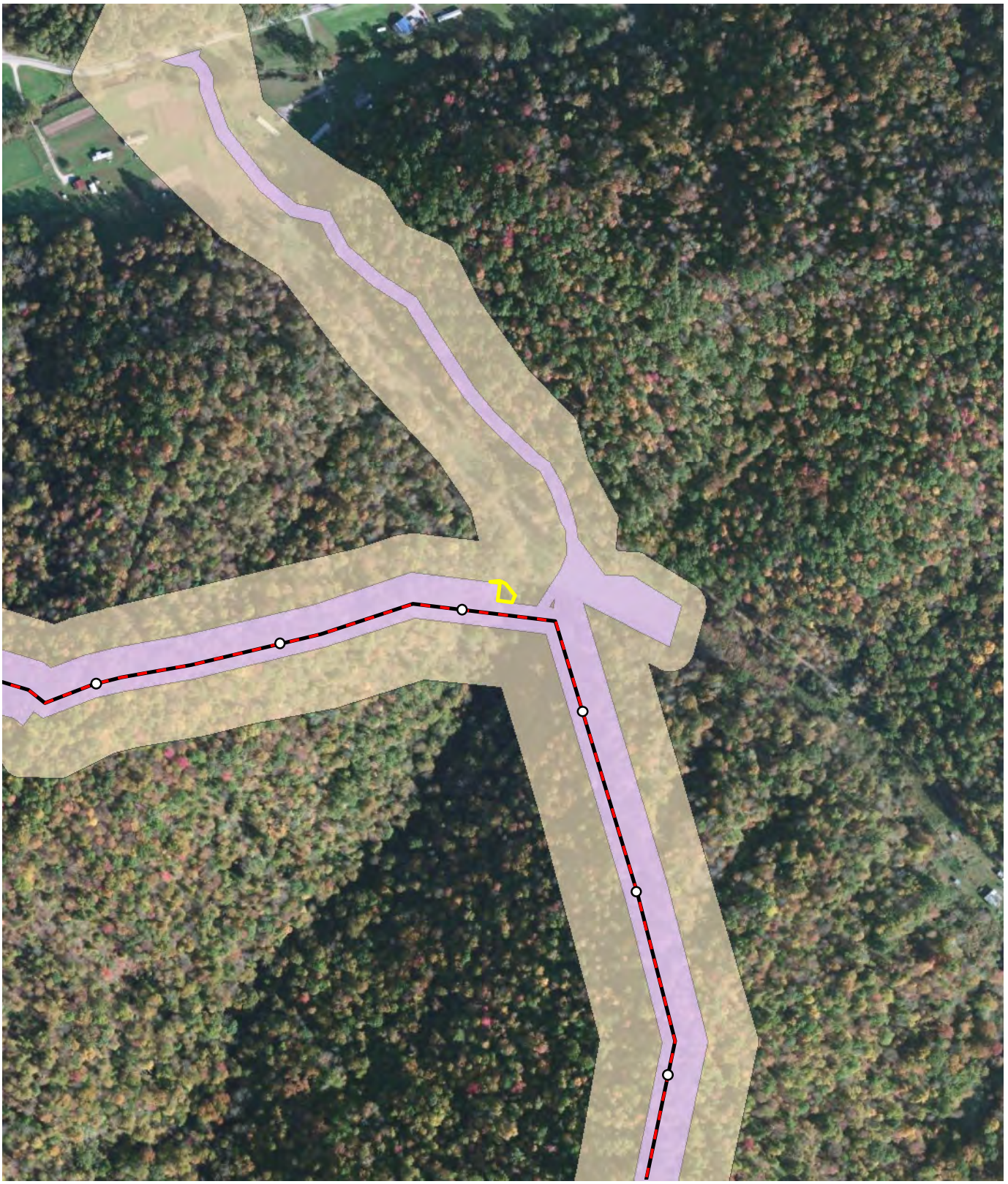
State and federal agencies identified areas where plant surveys were required. This variance does not occur in any of those areas.

There are no impacts to aquatic resources associated with this variance therefore, 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). On April 3, 2019, approval for Mountain Valley to cut these tress as part of a slip Emergency Endangered Species Act Consultation was filed with FERC. MVP will cut the trees associated with this variance as soon as approved to do so. Attachment 2 includes a table that shows MVP's acreage "banks" will remain net positive following approval of this variance request.

On 02/12/2015, 10/27/2015, 08/15/2016 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.



MVP Variance
MVP LOD
ESI Portal Coverage

N
W E
S

Mountain Valley Pipeline Variance Survey Exhibit; Variance A-47

Meters
60 0 60 120

Base Map: ESRI "World Imagery (Clarity)"; accessed 10/3/2018

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
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
Variance A-56 (MP 6.61)	0.001	0.00	0.00	0.00	0.00	0.00
Variance A-47 (MP 5.52)	0.04	0.00	0.00	0.00	0.00	0.00
Net Remaining Acreage for variances to date	**1.299**	**0.81**	**3.89**	**5.07**	**0.30**	**0.59**

Mountain Valley Pipeline, LLC
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Waterbodies and Wetlands Report
Attachment 3

Mountain Valley Pipeline Project

Variance A-47

October 2, 2018

On June 1, 2015, 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 wetlands and one stream were identified and delineated in the vicinity of the variance area (W-A27-PEM, W-A27-PFO, S-A118), as shown on the attached figure, but are not impacted by the variance.

Mountain Valley Pipeline Project

N

NAD 1983 UTM 17N

1 inch = 100 feet

0 50 100 200 Feet

Mountain Valley PIPELINE

Proposed Variance A-47

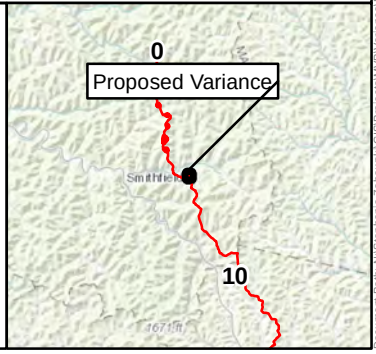
Wetzel County, West Virginia

October 2018

Data Sources: ESRI Streaming Data 2014.

Legend

- Issued for Construction LOD
- Proposed Variance Limit of Disturbance
- Drainage
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PFO Wetland



Document Path: N:\Stephanie.Zabowski\GIS\Projects\MVP\Variance\L3\VAR-WV-WE-33.mxd

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

Mountain Valley PIPELINE

FERC Docket No. CP16-10-000

MVP Variance
A-47

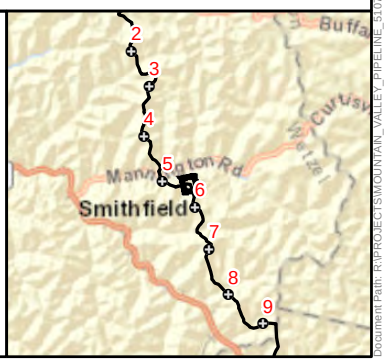
WETZEL COUNTY

October 2018

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

Legend

- Issued for Construction Milepost
- Issued for Construction Route
- Issued for Construction Limits of Disturbance
- Parcel Boundary
- Proposed Variance Additional Temporary Workspace



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