BASELINE ASSESSMENT – WETLAND ATTRIBUTES

ATTACHMENT K GILES COUNTY, VIRGINIA

WETLAND SWVM FORMS/WETLAND DELINEATION FORM/PHOTOS

Wetland ID	Wetland SWVM Form Provided	Delineation Data/Photos		
W-Z11	✓	✓		
W-Z3	N/A – Permanent Conversion	N/A – Permanent Conversion		
W-CD12	✓	✓		
W-MM10	√	√		
W-RR1b	√	√		

USACE FILE NO./Project Name:		Mountain Valley Pipeline			Lat.	37.346591	Lon.	-80.641713
STREAM/SITE ID AND SITE DESCR						W-Z11, Pipeline ROW		
(% stream slope, watershed size {a	creage}, unaltered	d or impairments)						
FORM OF MITIGATION:								
DATE:	9/28	3/2021	WEATHER CONDITIONS:			PRECIPITATION PAST 48 HRS:		
	PART I - Wetland Indicators							
Impact Wetland ID:	Impact Wetland Classification	Impacts (acreage)	Mitigation Wetland Classification					
W-Z11	Emergent	0.0262	Emergent					
						PART III - Advanced		n
						Sustainable Determination Made or Advanced Mitigation (Y or N)	ו	Y
						(1 61 14)		
Total Impact		0.0262						
		Unit Scores				Estimated		
	assification		Replacement Unit(s)			ILF Costs		
Total Emergent			0.0262			.		
Total Scrub-Shrub			0			\$1,572.00		
Total Forested			0					
Total Open Water			0					

Project/Site: MVP			City/C	ounty: Giles		Sampling Date: 07/17/2015
Applicant/Owner: MVP				,		Sampling Point: W-Z11
Investigator(s): SET, SJT, D	M		Section	on, Township, Range: N/A	•	_
Landform (hillslope, terrace, et						Slope (%):_8
Subregion (LRR or MLRA): L	RRN	l at·	37.346535			Datum: NAD 83
Soil Map Unit Name: Nolichu	icky very s	tonv san	dv loam 15 to 30			
Are climatic / hydrologic condit						
						present? Yes No
Are Vegetation, Soil SUMMARY OF FINDIN					olain any answe	rs in Remarks.) , important features, etc.
				1 01	,	, ,
Hydrophytic Vegetation Pres		Yes <u>√</u>	_ No	Is the Sampled Area	,	
Hydric Soil Present? Wetland Hydrology Present?		Yes <u>√</u> Yes √	_ No No	within a Wetland?	Yes <u>√</u>	No
Remarks:		165				
Cowardin Code: PEM; H	IGM: Depr	essional;	WT: Isolate			
				etland hydrology, hyd	drophytic veg	etation, and hydric soils
was unable to be confirm	ned becau	se the we	etland was obstru	cted by timber matting	g.	•
HYDROLOGY						
Wetland Hydrology Indicate			11.4	_		ators (minimum of two required)
Primary Indicators (minimum	of one is requ				_ Surface Soil	
✓ Surface Water (A1) ✓ High Water Table (A2)			True Aquatic Plants (getated Concave Surface (B8)
✓ Fight Water Table (A2) ✓ Saturation (A3)			Hydrogen Sulfide Odd	es on Living Roots (C3)	_ Drainage Parage Moss Trim Li	
Water Marks (B1)			Presence of Reduced	-		Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)			Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)				_	Geomorphic	Position (D2)
Inundation Visible on Ae	rial Imagery (B7)		_	Shallow Aqu	itard (D3)
Water-Stained Leaves (E	39)			_	Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)				_	FAC-Neutral	Test (D5)
Field Observations:				_		
Surface Water Present?	Yes <u>√</u>	No	Depth (inches):	1		
Water Table Present?	,		Depti (inones).	10		
Saturation Present? (includes capillary fringe)	Yes <u></u> ✓	No	Depth (inches):	0 Wetland Hy	drology Preser	nt? Yes <u>√</u> No
Describe Recorded Data (str	eam gauge, n	nonitoring v	vell, aerial photos, pre	vious inspections), if availa	ible:	
Remarks:	d area that	hae likol	, boon filled and i	e rogularly grazod A	6" channol o	xits wetland (french drain).
I lightly disturbed wetlank	i arca triat	rias iikcij	y been filled and i	3 regularly grazed. At	o chamici c	kits wettaria (ireneri arairi).

Samo	lina	Point:	W-Z11

20'	Absolute Dominant Ind	icator Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover Species? St	I Number of Dominant Species
1		That Are OBL, FACW, or FAC:2 (A)
2		Total Number of Deminerat
3		Total Number of Dominant Species Across All Strata: 2 (B)
4		(5)
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:100 (A/B)
6		Prevalence Index worksheet:
7		
	0 = Total Cover	
	20% of total cover:	0 OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1		FAC species x 3 =
2		FACU species x 4 =
		UPL species x 5 =
3		Column Totals: (A) (B)
4		(X) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		
9.		2 - Dominance Test is >50%
·-	0 = Total Cover	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:	20% of total cover:	0 4 - Morphological Adaptations ¹ (Provide supporting
E!	20 % or total cover	data in Remarks or on a separate sheet)
Herb Stratum (Plot Size)	15	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Solanum carolinense		
2. Phleum pratense	F <u>A</u>	CU Indicators of hydric soil and wetland hydrology must
3. Polygonum sp.	5 <u>N</u> E	be present, unless disturbed or problematic.
Dog trivialia	1E /	CIAL
4. Poa trivialis	45 √ FA	CW Definitions of Four Vegetation Strata:
4. Foa trivialis 5. Panicum virgatum		Definitions of Four Vegetation Strata.
5. Panicum virgatum	30 ✓ FA	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Panicum virgatum 6.	30 ✓ FA	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
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5. Panicum virgatum 6. 7. 8.	30 ✓ FA	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
5. Panicum virgatum 6. 7. 8. 9.	30 ✓ FA	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
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SOIL Sampling Point: W-Z11

Profile Desc	ription: (Describe t	o the dep	th needed to docur	nent the i	indicator	or confirm	the absen	ce of indicators.)
Depth	Matrix			x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 5/3	99	10YR 5/6	1			SiL	
6-18	10YR 5/2	97	10YR 5/6	3			SiL	
			-					
-			-					
-							-	
¹Type: C=Co	oncentration, D=Depl	etion RM=	Reduced Matrix Ms	S=Masked	 d Sand Gra	nins	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I		otion, rtivi-	-readoca Matrix, Mi	<u>J-Masket</u>	a Garia Git			licators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	LRA 147.		Coast Prairie Redox (A16)
Black His			Thin Dark Su					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			,		Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	_RR N,		
	A 147, 148) Gleyed Matrix (S4)		MLRA 13 Umbric Surfa		(MI DA 12	6 422\	31	ndicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	_ayer (if observed):			riatoriai (i	, (_			arricos distarbos er problematio.
Type:								
	ches):						Hydric S	oil Present? Yes _ ✓ No
							Tiyanc o	on resent: res_v No
Remarks:								

Wetland Photograph Page

Wetland ID W-Z11



Photograph Direction North

Date: 07/17/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 10/27/19

Comments: 2019 wetland delineation confirmation.

USACE FILE NO./Project Name:		Mountain Valley Pipeline			Lat.	37.318644	Lon.	-80.441717
STREAM/SITE ID AND SITE DESCF (% stream slope, watershed size {a		d or impairments)				W-CD12, Pipeline ROW		
FORM OF MITIGATION:								
DATE:	9/28	3/2021	WEATHER CONDITIONS:			PRECIPITATION PAST 48 HRS:		
	PART I - Wet	land Indicators						
Impact Wetland ID:	Impact Wetland Classification	Impacts (acreage)	Mitigation Wetland Classification					
W-CD12	Emergent	0.0208	Emergent					
						PART III - Advanced	Mitigatio	n
						Sustainable Determination Made on Advanced Mitigation (Y or N)		Υ
						(1 01 14)		
Fotal Impact		0.0208						
		Unit Scores				Estimated		
Wetland C	lassification		Replacement Unit(s)			ILF Costs		
			0.0000					
<u> </u>			0.0208			¢4 240 00		
Гotal Emergent Гotal Scrub-Shrub Гotal Forested			0.0208 0 0			\$1,248.00		

Project/Site: MVP	City/C	county: Giles		Sampling Date: 04/14/2016
Applicant/Owner: MVP	,	•	State: VA	_ Sampling Point: W-CD12
Investigator(s): HS,CW,AC				
Landform (hillslope, terrace, etc.): Slope		· · · · · · · · · · · · · · · · · · ·		Slope (%): 3-5
Subregion (LRR or MLRA): LRR N				
Soil Map Unit Name: 30D				
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydrol				
Are Vegetation, Soil, or Hydrol			xplain any answer	
SUMMARY OF FINDINGS – Attach				
, , , ,	s	Is the Sampled Area	,	
,	s <u>v</u> No	within a Wetland?	Yes <u>√</u>	No
Remarks: Cowardin Code: PEM	HGM: Riverine	Water Type: F	ם מיייים מיייים	
	HOW. HIVEHINE	vvaler Type. F		
Abutting S-OO14				
HYDROLOGY				
Wetland Hydrology Indicators:		•		tors (minimum of two required)
Primary Indicators (minimum of one is requir			Surface Soil (
Surface Water (A1)	True Aquatic Plants (etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	✓ Oxidized Rhizospher	=	Moss Trim Lir	
Water Marks (B1)	Presence of Reduced	` '		Vater Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burr	
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer		✓ Geomorphic I	ressed Plants (D1)
Iron Deposits (B5)	^\	-		, ,
Inundation Visible on Aerial Imagery (B7)	-	Shallow Aquit	phic Relief (D4)
Water-Stained Leaves (B9)Aquatic Fauna (B13)		-	✓ FAC-Neutral	
Field Observations:		-	FAC-Neutral	Test (D3)
	No Depth (inches):			
	No Depth (inches):			
	No Depth (inches):		ydrology Present	t? Yes ✓ No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	vious inspections), if avail	lable:	
Remarks:				

Dominance Test worksheet: Number of Dominant Species 2
That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FACW species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FACW species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
Species Across All Strata:
Percent of Dominant Species That Are OBL, FACW, or FAC: 100
That Are OBL, FACW, or FAC:
Prevalence Index worksheet:
Total % Cover of: Multiply by: OBL species
OBL species
OBL species
FACW species
FAC species
FACU species
UPL species x 5 = (B) Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
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Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
Hydrophytic Vegetation Indicators:
Panid Tost for Hydrophytic Vacatation
1 - Rapid Test for Hydrophytic Vegetation
-
3 - Prevalence Index is ≤3.0 ¹
4 - Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
-
Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Definitions of Four Vegetation Strata:
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more in diameter at breast height (DBH), regardless of
height.
Sapling/Shrub – Woody plants, excluding vines, less
than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
- III) tall.
Herb – All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vine – All woody vines greater than 3.28 ft in
height.
-
-
-
- Hydrophytic
_ Vegetation
Present? Yes ✓ No
Present? Yes <u>√</u> No

	Depth	Matrix Color (moist)	%		x Features	pe¹ Loc²	Toyturo		Domarka	
10-18									Remarks	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 2 cm Muck (A10) (LRR N) Depleted Matrix (F2) Depleted Below Dark Surface (S9) (MLRA 147, 148) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Dumbric Surface (F19) (MLRA 136, 147) MILRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) MILRA 136, 147) MILRA 136, 147) MILRA 147, 148) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Betrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes ✓ No										
Histosol (A1)	10-18	10Y 4/1	80	7.5YR 5/6		M/PL	SiCL			
Histosol (A1)										
Histosol (A1)										
Histosol (A1)										
Histosol (A1)								-		
Histosol (A1)										
Histosol (A1)										
Histosol (A1)										
Histosol (A1)								-		
Histosol (A1)										
Histosol (A1)	ype: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	² Location: Pl	_=Pore Lining	g, M=Matrix.	
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depleted Below Surface (S8) (MLRA 147, 148) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) NLRA 136) Umbric Surface (F12) (LRR N, MLRA 136, 122) Setrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes ✓ No										dric Soils ³
Black Histic (A3)	_ Histosol	(A1)						cm Muck (A1	0) (MLRA 1 4	17)
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Strictive Layer (if observed): Type: Depth (inches): Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) MLRA 136, Setrictive Layer (if observed): Depleted Matrix (F3) MLRA 136, Stripped Matrix (S6) Depleted Matrix (F3) Medox Depressions (F8) Loamy Gleyed Matrix (F2) Medox Dark Surface (F6) Netrock Surface (F7) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Medox Depressions (F8) Loamy Gleyed Matrix (F2) Medox Dark Surface (F12) Medox Depressions (F8) Loamy Gleyed Matrix (F2) Medox Dark Surface (F112) Medox Depressions (F12) Lare (F12) Medox Depressions (F12) Lare (F12) Medox Depleted Matrix (F2) Medox Dark Surface (F112) Medox Depleted Matrix (F2) Medox Dark Surface (F112) Medox Depleted Matrix (F2) Medox Depleted Dark Surface (F5) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Medox Depleted Dark Surface (F5) Medox Depleted Dark Surface							148) C			
						RA 147, 148)	_			=
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Estrictive Layer (if observed): Depth (inches): Pedax Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Set other (Explain in Remarks) MLRA 136, Linon-Manganese Masses (F12) (LRR N, MLRA 136, Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes ✓ No							Pi			F19)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Dark Bases (F12) (LRR N, Dark Ba							V	•	•	(TF12)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 127, 147) Stripped Matrix (S6) Strictive Layer (if observed): Type: Depth (inches): Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Where Masses (F12) (MLRA 136, 122) Mucky Mineral (S1) (MLRA 136, 122) Mucky Mineral (S1) (MLRA 136, 122) Jedicators of hydrophytic vegetation wetland hydrology must be present, and unless disturbed or problematic. Hydric Soil Present? Yes ✓ No			e (A11)		, ,					(/
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Hydric Soil Present? Yes ✓ No			,					` '	,	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5)			RR N,			12) (LRR N,				
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Strictive Layer (if observed): Type:					•		3			
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No										
estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes ✓ No										
Type: Depth (inches):				Neu Falelii li	naterial (F21) (I	VILKA 127, 147) uiii	ess distuibet	or problema	ilic.
Depth (inches): Hydric Soil Present? Yes ✓ No _										
	Type:								/	
							Hydric Soil	Present?	Yes √	No
	Depth (inc			<u> </u>			Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc			_			Hydric Soil	Present?	Yes <u> </u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u> </u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>√</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No
	Depth (inc						Hydric Soil	Present?	Yes <u>V</u>	No



Photograph Direction SE

0		
Comments:		

USACE FILE NO./Project Name:	Mountain Valley Pipeline			COORDINATES:	Lat.	37.298219	Lon.	-80.480617
STREAM/SITE ID AND SITE DESCR					W	-MM10, Temporary Access Road		
(% stream slope, watershed size {a	creage}, unaltered	d or impairments)						
FORM OF MITIGATION:								
DATE:	9/28	3/2021	WEATHER CONDITIONS:			PRECIPITATION PAST 48 HRS:		
PART I - Wetland Indicators								
Impact Wetland ID:	Impact Wetland Classification	Impacts (acreage)	Mitigation Wetland Classification					
W-MM10	Emergent	0.0254	Emergent					
						PART III - Advanced	Mitigatio	n
						Sustainable Determination Made or		
						Advanced Mitigation (Y or N)		Y
						,	•	
Total Impact		0.0254						
		Unit Scores				Estimated		
	assification		Replacement Unit(s)			ILF Costs		
Total Emergent			0.0254					
Total Scrub-Shrub			0			\$1,524.00		
Total Forested			0					
Total Open Water			0					

Project/Site: MVP	City/County: Giles		Sampling Date: 08/29/2015		
Applicant/Owner: MVP			Sampling Point: W-MM10		
Investigator(s): A. Grech, A. Stott, M. Whitten	Section, Township.				
Landform (hillslope, terrace, etc.): Valley bottom		-	Slope (%): 0-2%		
Subregion (LRR or MLRA): LRRN Lat:			Datum: NAD 83		
Soil Map Unit Name: Shottower-Laidig (s8276)		NWI classific			
Are climatic / hydrologic conditions on the site typical for	,				
Are Vegetation, Soil, or Hydrology			present? Yes No		
Are Vegetation, Soil, or Hydrology		f needed, explain any answe			
SUMMARY OF FINDINGS – Attach site m			,		
- SOMMANT OF FINDINGS - Attach site in		t locations, transects	, important leatures, etc.		
Hydrophytic Vegetation Present? Yes	No Is the Samp	led Area			
Hydric Soil Present? Yes	No within a We	,	No		
Wetland Hydrology Present? Yes <u>✓</u>	_ No				
Remarks: Cowardin Code: PEM; HGM: riverine; WT:	DD\\\\\\\\				
The wetland was revisited on 10/28/2019. F		v hydrophytic vogotati	on, and hydric soils was		
	, ,		on, and nyunc sons was		
confirmed using the USACE EMP Regional	Supplement delineation met	nodology.			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check	call that apply)	Surface Soil			
	True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)		
	Hydrogen Sulfide Odor (C1)	Drainage Pa			
	Oxidized Rhizospheres on Living R				
	Presence of Reduced Iron (C4)		Water Table (C2)		
	Recent Iron Reduction in Tilled Soil				
	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)		
Iron Deposits (B5)		Geomorphic	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	itard (D3)		
Water-Stained Leaves (B9)		Microtopogra	aphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)		
Field Observations:					
	Depth (inches):				
	Depth (inches):				
	Depth (inches):	Wetland Hydrology Preser	nt? Yes No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous inspection	ons), if available:			
, , , ,					
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants.

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-MM10
301	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:6 (A)
2				Total Number of Dominant
3				Species Across All Strata:6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				Dravialence le descripche etc.
7				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover	:0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
8				✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50%
9				
	_	= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:0	20% of	total cover	: <u> </u>	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Leersia oryzoides	50	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	10	✓	FACW	
3. Persicaria pennsylvanica	10	√	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Mentha spicata	10	√	FACW	Definitions of Four Vegetation Strata:
5. Cyperus esculentes	10	√	FACW	Definitions of Four Vegetation Strata:
6. Eupatorium perfoliatum	10	√	F <u>ACW</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7			. 71011	more in diameter at breast height (DBH), regardless of height.
8.				Holght.
9.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10 11.				, in the second
· · · · · · · · · · · · · · · · · · ·	100	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:50		total cover		of size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2.			-	
0				
3				
5				Hydrophytic
<u>. </u>	^	= Total Cov	· · · · · · · · · · · · · · · · · · ·	Vegetation Present? Yes _ ✓ No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s		10101 00101	*	
(morado prioto mamboro noro or on a soparate s				

Sampling Point: W-MM10

Profile Desc	ription: (Describe	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	k Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3"	10YR 3/2	100					SiL	
3-12"	10YR 4/2	90	7.5YR 4/6	10	С	M/PL	GrSiL	
12+"						1V1/1 L		Refusal:CF
12+								
		-			-	-		
1- 0.0							2, ,, ,	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I			5 1 6 7	(07)				ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(00) (AL DA 447		cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		. , .		148) (Coast Prairie Redox (A16)
Black His			Thin Dark Su Loamy Gleye			147, 148)	_	(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		✓ Depleted Mat		F2)		<u> </u>	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S		· 6)		V	/ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar	,				Other (Explain in Remarks)
	rk Surface (A12)	, (, (, , ,)	Redox Depre				_ `	other (Explain in Nemarko)
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			LRR N.		
	147, 148)	,	MLRA 136		, ,	,		
	leyed Matrix (S4)		Umbric Surfa	-	MLRA 13	36, 122)	³ Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	un	less disturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes <u>√</u> No
Remarks:								

Wetland Photograph Page

Wetland ID W-MM10



Photograph Direction SE

Date: 08/29/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 10/28/19

Comments: 2019 wetland delineation confirmation.

USACE FILE NO./Project Name:		Valley Pipeline	COORDINATES:	Lat.	37.29667	Lon.	-80.494042	
STREAM/SITE ID AND SITE DESCRIPTION:						W-RR1b, Timber Mat Crossing		
(% stream slope, watershed size {a	creage}, unaltered	d or impairments)						
FORM OF MITIGATION:								
DATE:	9/28/2021					PRECIPITATION PAST 48 HRS:		
	PART I - Wetl	land Indicators						
Impact Wetland ID:	Impact Wetland Classification	Impacts (acreage)	Mitigation Wetland Classification					
W-RR1b	Emergent	0.0056	Emergent					
						PART III - Advanced	Mitigatio	n
						Sustainable Determination Made or		
						Advanced Mitigation		Υ
						(Y or N)		
Total Impact		0.0056						
		Unit Scores				Estimated		
	assification		Replacement Unit(s)			ILF Costs		
Total Emergent			0.0056					
Total Scrub-Shrub			0			\$336.00		
Total Forested			0					
Total Open Water			0					

Project/Site: MVP		City/C	ounty: Giles		Sampling Date: 09/09/2015		
Applicant/Owner: MVP					Sampling Point: W-RR01B		
Investigator(s): Cook, Foste	er, Keyser	Section	on, Township, Range: N/	'A			
Landform (hillslope, terrace, et					Slope (%)· 0		
Subregion (LRR or MLRA): L					Datum: NAD83		
Soil Map Unit Name: Chagrii				NWI classific			
		for this Constant	,				
Are climatic / hydrologic condit							
Are Vegetation, Soil					present? Yes No		
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)		
SUMMARY OF FINDING	GS – Attach site r	map showing sam	pling point location	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks: Cowardin Code: PEM; Horder Hydrology Present Hydrology Present?	Yes <u>√</u> Yes <u>√</u> HGM: Riverine; WT ed on 10/28/2019.	No	nd hydrology, hydro	near roadside	No e. ion, and hydric soils was		
HYDROLOGY							
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum		ck all that apply)		Surface Soil			
✓ Surface Water (A1)		_ True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
✓ High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)							
✓ Saturation (A3)	_		es on Living Roots (C3)	Moss Trim L			
Water Marks (B1)		Presence of Reduced			Water Table (C2)		
Sediment Deposits (B2)	_	Recent Iron Reductio		Crayfish Bur			
Drift Deposits (B3)	_	_ Thin Muck Surface (C			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		tressed Plants (D1)		
Iron Deposits (B5)	riol Imagany (P7)			Geomorphic			
Inundation Visible on Ae	=			Shallow Aqu	aphic Relief (D4)		
Water-Stained Leaves (E Aquatic Fauna (B13)))			✓ FAC-Neutral			
Field Observations:				TAO Neutral	1631 (150)		
Surface Water Present?	Ves ✓ No	_ Depth (inches):	0				
Water Table Present?		Depth (inches):	6				
Saturation Present?	Yes V No		0 Watland b	ludralagu Praca	nt? Yes <u>√</u> No		
(includes capillary fringe)					it: 165 <u>v</u> NO		
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Abutting creek/stream. S	Small unit of wetlar	nd, north/west of ro	ad mapped as part	of this wetland	I. Wetland is abutting		
green briar branch creek	k,which flows into s	sinking creek. Oth	er wetland names a	s W-RR01b	-		
Most of the wetland is m	apped east of road	a					

EGETATION (Four Strata) – Use scientific n	Absolute	Dominant	Indicator	Sampling Point: W-RR01B Dominance Test worksheet:
Free Stratum (Plot size: 30')		Species?		Number of Dominant Species
				That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
l <u> </u>				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/
5				
7				Prevalence Index worksheet:
	^	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
Salix nigra	7	✓	FACW	FAC species x 3 =
lva frutescend	7	√	FACW	FACU species x 4 =
3				UPL species x 5 =
i				Column Totals: (A) (E
5.		-		
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
3		-		✓ 2 - Dominance Test is >50%
9	14	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:7_				4 - Morphological Adaptations ¹ (Provide support
Herb Stratum (Plot size: 5')	20 /0 01	total cover.		data in Remarks or on a separate sheet)
1. Impatiens capensis	50	1	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Cardemine rotundifolia	20		OBL	
3. Lemna minor (aquatic)	5			¹ Indicators of hydric soil and wetland hydrology must
Trilobium repens	2		OBL	be present, unless disturbed or problematic.
5. Eleocharis obtusa	- 2		F <u>ACU</u>	Definitions of Four Vegetation Strata:
5. Eregaria virginiana	1	· -	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
		· -	F <u>ACU</u>	more in diameter at breast height (DBH), regardless
7				height.
				Sapling/Shrub – Woody plants, excluding vines, les
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
				Herb - All herbaceous (non-woody) plants, regardles
500/ (1.1.) 40.1		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40.5	20% of	total cover	10.2	Woody vine – All woody vines greater than 3.28 ft in
Noody Vine Stratum (Plot size:15') Rosa multiflora	5	./	E4.01.1	height.
·· ·			<u>FACU</u>	
2				
3				
4		· 		Hydrophytic
5				Vegetation
0.5		= Total Cov		Present? Yes No
50% of total cover: 2.5	20% of	total cover	1	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Mowed, impossible to determine grass species	with seed	d head. R	adius mo	odified to match linear size.
-				

SOIL Sampling Point: W-RR01B

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirn	the abs	sence of indicators.)
Depth	Matrix			x Feature				
(inches) 0-2	Color (moist) 10YR 2/1	<u>%</u> 100	Color (moist)	%	Type'	Loc ²	Textu Loar	
2-8	10YR 3/2	100					SaL	
8-16	2.5Y 4/3	100					SaL	
	2.01 4/0						Oal	
¹Type: C=C	oncentration, D=Dep	etion, RM=	=Reduced Matrix, MS	= S=Masked	Sand Gra	ins.	² Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil			·					Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (M	LRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9	(MLRA 1	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mar					(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	,	,		_	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				-	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N		
	/lucky Mineral (S1) (L \ 147, 148)	.KK N,	Iron-Mangan		es (F12) (I	KK N,		
	Gleyed Matrix (S4)		Umbric Surfa		(MI RΔ 13)	6 122)		³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				18)	wetland hydrology must be present,
	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):			(-	/ (1	
Type:	, ,							
Depth (in	ches).						Hydric	c Soil Present? Yes <u>√</u> No
Remarks:	onos)						Tiyano	7 CONT TESCHE: 165 140

Wetland Photograph Page

Wetland ID W-RR01B



Photograph Direction NE

Date: 09/09/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 10/28/19

Comments: 2019 wetland delineation confirmation.