Project/Site: MVP		City/C	county: Harrison		Sampling Date: 05/30/2015	
Applicant/Owner: MVP					Sampling Point: W-B55	
Investigator(s): C. Ansari, M.	Whitten, M. Bric				_ ,	
Landform (hillslope, terrace, etc.)					Slope (%): 2	
Subregion (LRR or MLRA): LRF					Datum: NAD 83	
Soil Map Unit Name: Vandalia			_			
Are climatic / hydrologic condition	s on the site typical	for this time of year? Y	res No ((If no, explain in R	emarks.)	
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No	
Are Vegetation, Soil				xplain any answe		
-	-				, important features, etc.	
Hydrophytic Vegetation Present	? Yes 🗸	No				
Hydric Soil Present?	Yes V		Is the Sampled Area within a Wetland?	Yes 🗸	No	
Wetland Hydrology Present?	Yes 🗸		Within a Wenanu:	165	NU	
Remarks:						
Cowardin Code: PEM						
HGM:Riverine						
WT: RPWWD						
HYDROLOGY						
Wetland Hydrology Indicators	::			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of	one is required; che	ck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		_ True Aquatic Plants (B14)	Sparsely Veg	getated Concave Surface (B8)	
High Water Table (A2)		_ Hydrogen Sulfide Ode		Drainage Pa	tterns (B10)	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li		
Water Marks (B1)	_	Presence of Reduced	, ,		Water Table (C2)	
Sediment Deposits (B2)	<u> </u>	Recent Iron Reductio				
Drift Deposits (B3)		_ Thin Muck Surface (C			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	_ Other (Explain in Ren	narks)		tressed Plants (D1)	
Iron Deposits (B5)	Imagan, (D7)			Geomorphic	, ,	
Inundation Visible on Aerial	• • • •			Shallow Aqui		
Water-Stained Leaves (B9)Aquatic Fauna (B13)				FAC-Neutral	aphic Relief (D4)	
Field Observations:				TAO Neutral	1031 (00)	
	Yes No 🗸	, Depth (inches):				
		Depth (inches):				
	Yes No		8 Wetland H	lydrology Presen	ıt? Yes ✔ No	
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitoring	well, aerial photos, pre	vious inspections), if ava	ılable:		
Remarks:						
Wetland location is a heav	rily grazed pastu	re. The soils are co	ompacted from the h	neavy cattle us	e.	
	, ,		•	•		

mpling Point: W-B55
orksheet:
nt Species
W, or FAC: (A)
minant
Strata: <u>2</u> (B)
nt Species
W, or FAC: 100 (A/B)
worksheet:
of: Multiply by:
x 1 =
x 2 =
x 3 =
x 4 =
x 5 =
(A) (B)
dov. D/A
dex = B/A =
tation Indicators:
for Hydrophytic Vegetation
Test is >50%
Index is ≤3.0 ¹
cal Adaptations ¹ (Provide supporting
arks or on a separate sheet)
drophytic Vegetation ¹ (Explain)
soil and wetland hydrology must
disturbed or problematic.
r Vegetation Strata:
ts, excluding vines, 3 in. (7.6 cm) or
breast height (DBH), regardless of
oody plants, excluding vines, less
greater than or equal to 3.28 ft (1
ous (non-woody) plants, regardless
plants less than 3.28 ft tall.
oody vines greater than 3.28 ft in
Yes No
165 <u> </u>

SOIL Sampling Point: W-B55

Profile Desc	cription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			c Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	70	10YR 4/6	30	С	M/PL	LS	
			_					
								
						· ——		
			•			· ——		
¹ Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			_ 2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel		ce (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				· -	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)		P	riedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				0	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	A 147, 148)		MLRA 136	•			•	
	Sleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	') un	less disturbed or problematic.
	Layer (if observed):							
Type:			_					
Depth (in	ches):		_				Hydric Soil	Present? Yes V No No
Remarks:								



Photograph Direction NW

0 1		
Comments:		

Project/Site: MVP	City/C	county: Harrison		Sampling Date: 05/30/2015	
Applicant/Owner: MVP		,		Sampling Point: W-B55-UP	
Investigator(s): C. Ansari, M. Whitten, M. E	Brice Section	on, Township, Range: N/			
Landform (hillslope, terrace, etc.): Valley floor				Slope (%): 2	
Subregion (LRR or MLRA): LRRN				Datum: NAD 83	
Soil Map Unit Name: Vandalia silty clay loa					
Are climatic / hydrologic conditions on the site typ					
Are Vegetation, Soil, or Hydrology	•				
Are Vegetation, Soil, or Hydrology			explain any answe		
SUMMARY OF FINDINGS – Attach si					
				, ,	
	No	Is the Sampled Area			
	No	within a Wetland?	Yes	No	
Upland					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	True Aquatic Plants (B14)			
High Water Table (A2)	Hydrogen Sulfide Od				
Saturation (A3)	Oxidized Rhizosphere	=			
Water Marks (B1)	Presence of Reduced	, ,		Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burr		
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (0 Other (Explain in Rer			sible on Aerial Imagery (C9) tressed Plants (D1)	
Algar Wat Of Crust (B4) Iron Deposits (B5)	Other (Explain in Kei	ilaiks)	Geomorphic		
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	, ,	
Water-Stained Leaves (B9)				aphic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral		
Field Observations:					
Surface Water Present? Yes No _	Depth (inches):				
Water Table Present? Yes No _	Depth (inches):				
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland H	Wetland Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, pre	vious inspections), if ava	ilable:		
Demorks					
Remarks: Upland plot					
Spiaria piot					

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

___)

50% of total cover: ___0

50% of total cover: 45 20% of total cover: 18

50% of total cover: 0 20% of total cover:

50% of total cover: 0 20% of total cover: 0

30'

Tree Stratum (Plot size: _

Sapling/Shrub Stratum (Plot size: 15'

1. None

1. None

Herb Stratum (Plot size: _ 1. Verbesina alternifolia

2. Daucus carota

3. Rumex crispus

4. Plantago major

6. Solidago sp

nes of plants.	Sampling Poi	nt: <u>W-B55-</u> l	JP
bsolute Dominant Indicator	Dominance Test worksheet:		
% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	_ (A)
	Total Number of Dominant Species Across All Strata:	2	_ (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:	0%	_ (A/B
	Prevalence Index worksheet:		
0 = Total Cover	Total % Cover of:	Multiply by:	
20% of total cover: 0	OBL species x 1	l =	
	FACW species x 2	2 =	
	FAC species x 3	B =	
	FACU species x 4	1 =	
	UPL species x 5	5 =	
	Column Totals: (A)		— (B)
	Column rotals: (r.)		(5)
	Prevalence Index = B/A =		_
	Hydrophytic Vegetation Indicat	ors:	
	1 - Rapid Test for Hydrophyti	c Vegetation	
	2 - Dominance Test is >50%		
	3 - Prevalence Index is ≤3.0 ¹		
0 = Total Cover	4 - Morphological Adaptation	s¹ (Provide su	pportir
20% of total cover: 0	data in Remarks or on a s	eparate sheet	t)
10 FAC	Problematic Hydrophytic Veg	etation ¹ (Expl	ain)
10 170			
1 <u>A00</u>	¹ Indicators of hydric soil and wetla	and hydrology	must
170	be present, unless disturbed or p	roblematic.	
1 <u>A00</u>	Definitions of Four Vegetation	Strata:	
5 FACU 10 ND	Tree – Woody plants, excluding wore in diameter at breast height height.		
	Sapling/Shrub – Woody plants, of than 3 in. DBH and greater than of m) tall.		
90 = Total Cover 20% of total cover: 18	Herb – All herbaceous (non-wood of size, and woody plants less that		ardless
	Woody vine – All woody vines gr height.	eater than 3.2	28 ft in
0 = Total Cover 20% of total cover: 0	Hydrophytic Vegetation Present? Yes	No <u> </u>	

Remarks: (Include photo numbers here or on a separate sheet.)

5. Poa compressa

Woody Vine <u>Stratum</u> (Plot size: ______)

Sampling Point: W-B55-UP

SOIL

Profile Description: (Describe to the de	oth needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth <u>Matrix</u>		x Feature				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12 10YR 4/3 90	10YR 4/6	10	<u>C</u>	M	-	
						
					-	
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix MS	S=Masked	Sand Gr	ains	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Indicators:	=reduced Matrix, Me	J-Masket	d Garia Gi	airio.		ators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Be	. ,	ce (S8) (I	VILRA 147.		coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Su					(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye			, ,	P	iedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark	Surface (F	- 6)			ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dar				c	other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre					
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangan		es (F12) (LRR N,		
MLRA 147, 148)	MLRA 13	-	MIDA 4	ne 400\	31m d	icators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)Sandy Redox (S5)	Umbric Surfa Piedmont Flo					etland hydrology must be present,
Stripped Matrix (S6)	Red Parent N					less disturbed or problematic.
Restrictive Layer (if observed):		natoriai (i	, (.,	-, u	issoc distances of problematic.
Type:						
Depth (inches):					Hydric Soil	Present? Yes No
Remarks:					Tiyunc 3011	Tresent: res No
Remarks.						

Project/Site: MVP		City/County: H	arrison		Sampling Date: 05/29/2015
Applicant/Owner: MVP		, ,	;	State: WV	Sampling Point: W-J32-PEM-1
Investigator(s): P. Johnson, C. We	eber, N. Katsiasicas	Section, Towns			
Landform (hillslope, terrace, etc.): Hill			-		Slope (%): 3
Subregion (LRR or MLRA): LRRN			Long: <u>-</u> 80.4		Datum: NAD 83
Soil Map Unit Name: Udifluvents a					
Are climatic / hydrologic conditions on					
Are Vegetation, Soil, or					resent? Yes No
Are Vegetation, Soil, o SUMMARY OF FINDINGS –				olain any answer	
JONIMART OF FINDINGS - 7	ttacii site iliap silow		Onit location	5, transects,	important reatures, etc.
Hydrophytic Vegetation Present?	Yes No		ampled Area		
Hydric Soil Present?	Yes No	— within a	Wetland?	Yes	No
Wetland Hydrology Present?	Yes No				
Remarks: Cowardin Code: PEM HGM:	Slope WT: RPWWD				
Information listed on this form presence of wetland hydrology was obstructed by timber matt	hydrophytic vegetation	llected in 2015. on, and hydric so	The wetland voils was unable	vas revisited e to be confir	on 09/17/2019. The med because the wetland
HYDROLOGY					
Wetland Hydrology Indicators:			<u>S</u>	econdary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one i	s required; check all that app	oly)		_ Surface Soil (Cracks (B6)
Surface Water (A1)		ic Plants (B14)	<u> </u>	_ Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		Sulfide Odor (C1)	_	_ Drainage Pat	
Saturation (A3)		hizospheres on Livir	—	_ Moss Trim Lir	
Water Marks (B1)		of Reduced Iron (C4)		-	Vater Table (C2)
Sediment Deposits (B2)		Reduction in Tilled	Soils (C6)	_ Crayfish Burr	` '
Drift Deposits (B3)		Surface (C7)	_		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Exp	lain in Remarks)	_	 '	ressed Plants (D1)
Iron Deposits (B5)	von. (P7)		_	_ Geomorphic I	
Inundation Visible on Aerial Imag Water-Stained Leaves (B9)	jery (b7)		_	_ Shallow Aquit	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	, ,
Field Observations:			_	17.0 1104141	1001 (20)
	No 🖍 Depth (inc	hes):			
	No L Depth (inc				
Saturation Present? Yes	No Depth (inc	hes): 6	Wetland Hyd	drology Present	t? Yes No
(includes capillary fringe)					
Describe Recorded Data (stream gau	ige, monitoring well, aerial p	hotos, previous insp	ections), if availa	ble:	
Remarks:					
remarks.					

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

<u>-</u>	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				T
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Specifica Moreografia Granda.
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
/				Total % Cover of: Multiply by:
500/ // /		= Total Cov		OBL species x 1 =
50% of total cover: 0	20% of	total cover	:0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Provolonce Index = P/A =
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
			-	2 - Dominance Test is >50%
9	0	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover	_	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	2070 01	10101 00101		data in Remarks or on a separate sheet)
1. Juncus effusus	40	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Carex vulpinoidea	20	<u> </u>		
3. Carex lurida	30	<u> </u>	OBL	¹ Indicators of hydric soil and wetland hydrology must
			<u>OBL</u>	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Carling/Chrub Woody plants avaluating vines less
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Horto All hards account (account of a locate manufacture
	90	= Total Cov	/er	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover		, p
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1.				height.
2.				
				
3				
4		·		Hydrophytic
5				Vegetation
0		= Total Cov	_	Fresent? Tes NO
50% of total cover:0		total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-J32-PEM-1

SOIL

Depth	Matrix		Redo	x Feature:	s	. ,	_		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		<u>Texture</u>		Remarks	
0-18	10 YR 5/2	90	10YR 5/6	10	С	M/PL	L			
					-			-		
vpe: C=Co	oncentration, D=Depl	etion. RM=F	Reduced Matrix. M	S=Masked	Sand G	rains.	² Location: F	PL=Pore Lini	ng, M=Matrix.	
	ndicators:		,						roblematic Hy	dric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)					A10) (MLRA 1	
	ipedon (A2)		Polyvalue Be		ce (S8) (MLRA 147,		•	Redox (A16)	,
Black Hi			Thin Dark Su	ırface (S9)	(MLRA	147, 148)	, <u> </u>	(MLRA 14		
_ Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		'	Piedmont Flo	oodplain Soils	(F19)
	Layers (A5)		Depleted Ma	, ,				(MLRA 13		
	ck (A10) (LRR N)		Redox Dark	•					Dark Surface	
	Below Dark Surface	e (A11)	Depleted Da				_ (Other (Expla	in in Remarks)	
	irk Surface (A12)	DD N	Redox Depre			/LDD N				
	lucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12)	(LKK N,				
	147, 148) leyed Matrix (S4)		MLRA 13 Umbric Surfa	•	MI DA 1	36 122\	3In	dicators of h	ydrophytic veg	etation and
	edox (S5)		Piedmont Flo						ology must be p	
	Matrix (S6)		Red Parent N						ed or problema	
	ayer (if observed):				, (1		<u> </u>	
Type: No										
Depth (inc			_				Hydric Soi	I Present?	Yes_	No
emarks:							Tiyano oo			
HIIdIKS.										

Wetland Photograph Page

Wetland ID W-J32-PEM-1 Cowardin Code PEM



Photograph Direction South

Date: 05/29/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 09/17/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/C	county: Lewis	Sampling Date: 05/28/2015		
Applicant/Owner: MVP		St	tate: WV Sampling Point: W-J32 UF		
	Section				
Landform (hillslope, terrace, etc.): Terrace			Convex Slope (%): 1		
Subregion (LRR or MLRA): LRRN			6980 Datum: NAD 83		
Soil Map Unit Name: Vandalia silty clay					
Are climatic / hydrologic conditions on the site					
Are Vegetation, Soil, or Hydro					
Are Vegetation, Soil, or Hydro					
			ain any answers in Remarks.) , transects, important features, etc		
SOMMAN OF THE BINGS - Attack	i site iliap silowilig sali	ipinig point locations	, transects, important reatures, etc		
	es No	Is the Sampled Area			
	es No	within a Wetland?	Yes No		
Wetland Hydrology Present? Ye Remarks:	es No				
Upland					
HYDROLOGY					
Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required	red; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patterns (B10)		
Saturation (A3)	Oxidized Rhizospher	- · · · · · · · · · · · · · · · · · · ·	Moss Trim Lines (B16)		
Water Marks (B1)	Presence of Reduced	· · · —	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction Thin Muck Surface (0)		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rer		Stunted or Stressed Plants (D1)		
Iron Deposits (B5)	Out of (Explain in 10)	<u></u>	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B)	7)	_	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		<u> </u>	Microtopographic Relief (D4)		
Aquatic Fauna (B13)		_	FAC-Neutral Test (D5)		
Field Observations:					
	No Depth (inches):				
	No Depth (inches):				
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydr	ology Present? Yes No		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	vious inspections), if available	e:		
Remarks:					
Remarks.					

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

Sampling Point: W-J32 UP

- 3 0'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: 30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	0	(A)
2						
3				Total Number of Dominant Species Across All Strata:	3	(B)
				Species Acioss Ali Strata.		(D)
4				Percent of Dominant Species	•	
5				That Are OBL, FACW, or FAC:	0	(A/B)
6				December of the december of		
7				Prevalence Index worksheet:		
	0 .	= Total Cov	er	Total % Cover of:		
50% of total cover: 0	20% of	total cover:	0	OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15')			,	FACW species x 2	=	_
				FAC species x 3		
1				FACU species x 4		
2						
3				UPL species x 5		
4				Column Totals: (A)	-	(B)
5						
				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate	ors:	
7				1 - Rapid Test for Hydrophytic	C Vegetation	
8				2 - Dominance Test is >50%	_	
9				3 - Prevalence Index is ≤3.0 ¹		
	0 .	= Total Cov	er		1 (0	
50% of total cover: 0				4 - Morphological Adaptations		porting
Herb Stratum (Plot size: 5')				data in Remarks or on a se	eparate sheet)	
1. Plantango lanceolata	30	/	FACU	Problematic Hydrophytic Vege	etation ¹ (Expla	in)
2 Trifolium repuns	30	~				
			<u>UPL</u>	¹ Indicators of hydric soil and wetla	and hydrology r	nust
3. Trifolium pratense	20		<u>UPL</u>	be present, unless disturbed or pre-		
4. Plantango major	10		FACU_	Definitions of Four Vegetation S		
5. Leucanthemum vulgare	10		FACU	Deminions of Four Vegetation C	muu.	
6				Tree - Woody plants, excluding vi		
				more in diameter at breast height	(DBH), regardl	ess of
7				height.		
8				Sapling/Shrub – Woody plants, e	xcluding vines	less
9				than 3 in. DBH and greater than o		
10				m) tall.		
11.				Harb All barbassass (non wood	lul planta raga	rdlooo
	100 .	= Total Cov		Herb – All herbaceous (non-wood of size, and woody plants less tha	y) plants, rega	raiess
50% of total cover: 50		total cover:		or olze, and weedy plante lees tha		
	20 /6 01	total cover.		Woody vine – All woody vines gre	eater than 3.28	ft in
Woody Vine Stratum (Plot size: 15')				height.		
1						
2						
3						
4.						
5.				Hydrophytic		
o	0 .	T-1-1-0		Vegetation Present? Yes	No 🗸	
50% -(1-1-1		= Total Cov	_			
50% of total cover: 0		total cover:				
Remarks: (Include photo numbers here or on a separate sh	neet.)					

Sampling Point: W-J32 UP

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absen	ce of indicat	ors.)		
Depth	Matrix			x Features							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	ks	
0-18	10 YR 5/3	100					L				
	·										
	·										
	-										
			_								
					-						
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Mat	rix.	
Hydric Soil I	ndicators:						Ind	licators for P	roblematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck ((A10) (MLR	A 147)	
	pipedon (A2)		Polyvalue Be	, ,	ce (S8) (N	ILRA 147,		Coast Prairi			
Black Hi			Thin Dark Su					(MLRA 1			
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Piedmont Fl	oodplain So	oils (F19)	
Stratified	l Layers (A5)		Depleted Ma	trix (F3)				(MLRA 1	36, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallov	w Dark Surf	ace (TF12))
	Below Dark Surface	e (A11)	Depleted Da					Other (Expla	ain in Rema	rks)	
	ark Surface (A12)		Redox Depre								
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (LRR N,					
	\ 147, 148)		MLRA 13	-							
	leyed Matrix (S4)		Umbric Surfa					Indicators of h		-	
-	edox (S5)		Piedmont Flo					wetland hydro			,
	Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127, 147	')	unless disturb	ed or probl	ematic.	
Restrictive I	ayer (if observed):										
Туре:			<u>—</u>								
Depth (ind	ches):						Hydric S	oil Present?	Yes	No _	<u> </u>
Remarks:							<u> </u>				

Project/Site:	Mountain Valley	Pipeline	City/County:	Harrison		9	Sampling Dat	te:	October 21, 2	2014
Applicant/ Owner:	MVP		State:	WV	Samplin	g Point:	W-B1a-W	/P1		
Investigator(s)	SR CM KL			Section	n, Township,	Range:	N/A			
Landform (hillslope, terrace, etc.):	Terrace		Local Relief (co	oncave, convex	, none):	Concave)		Slope (%):	35
Subregion:	LRR	Lat: 39	.360092	Long	: -80.4	92534		Datum	: NAD83	
Soil Map Unit Name:	Gilpin-Upshur complex,	35 to 70 percent slop	es, severely eroded	NWI classi	fication:	PEM				
Are Vegetation Are Vegetation SUMMARY C	on, Soil, or	Hydrolog Hydrolog Attach sit	y significantly dist y naturally probler e map showing	rurbed?	Are "Norma (If needed, e	explain an	tances" prese	ent?: Remarks	Yes [□ No
Нус	getation Present?: dric Soil Present?: drology Present?:	Yes Yes Yes	No No No	Is the San	npled Area v a Wetla		X Yes		No	
Remarks: Plo	t I									
Surface Wate High Water Ta Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	mary Indicators: mary Indicators (min or (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerial Imag d Leaves (B9) a (B13) s: resent?: X	ery (B7)	True Aquatic Plan Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ots (B14) Odor (C1) heres on Living uced Iron (C4) oction in Tilled Si e (C7) Remarks)			Soil Surface Sparsely Ve Drainage Pa Moss Trim L Dry-Season Crayfish Bur	e Cracks of getated (continues (B1)) Water Tarrows (C8) Visible on Stressed of Position (D3) aphic Relation (D3)	Concave Surface 310) 6) able (C2) 3) Aerial Imagery (Plants (D1) 1 (D2) 3) dief (D4)	e (B8)
Saturation Pro (includes capillar		res 🔀 I	No Depth (inches)):						
	ed Data (stream gau otos, previous inspe									
Remarks:										ľ

Tree Stratum	Plot size:	30 ft	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)				
				_	_	Total Number of Dominant						
						Species Across All Strata: Percent of Dominant Species	2	(B)				
				_	<u>-</u>	That Are OBL, FACW, or FAC:	100	(A/B)				
				_	_	Prevalence Index worksheet:						
				-	_	Total % Cover of:	Multiply b	oy:				
				-	_	OBL species: x1 =:	0					
				_	_	FACW species: x2 =:	0					
L	Tota	l Cover:	0	50% of total cover:	0	FAC species: x3 =:	0					
	_			20% of total cover:	0	FACU species: x4 =:	0					
Sapling Stratum	Plot size:	15 ft		55751.		UPL species: x5 =:	0					
	_			_	_	Column Totals: 0 (A)	0	(B)				
				-	_	Prevalence Index = B/A =:	0	_				
				-	_	Hydrophytic Vegetation Indica	itors:					
				_	_	1 - Rapid Test for Hydrophytic	> Vegetatio	n				
				_	_	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0*						
						4 – Morphological Adaptation	Morphological Adaptations* (Provide supporting data in Remarks)					
	Toto	I Cover:	0	50% of total	0	Problematic Hydrophytic Veg *Indicators of hydric soil and wetlan	xplain)					
	Tota	i Cover.		cover: 20% of total		be present, unless disturbed or pro		gy maon				
Shrub Stratum	Plot size:	15 ft		cover:	0	Definitions of Five Vegetation St Woody plants, excluding woody v Tree - ft (6 m) or more in height and 3 in diameter at breast height (DBH).						
				_	_	Woody plants, excluding we approximately 20 ft (6 m) or		ght and				
				_	_	less than 3 in. (7.6 cm) DBI Shrub - Woody plants, excluding wood		roximately				
				_	_	3 to 20 ft (1 to 6 m) in neight.	lanta inaludis					
				_	_	Herb - All herbaceous (non-woody) p herbaceous vines, regardless plants, except woody vines, le	of size, and v	voody				
				-	_	ft (1 m) in height. Woody Vine - All woody vines, rega	rdless of heiç	ght.				
				_		=						
	Tota	I Cover:	0	50% of total cover:	0		X	Yes				
				20% of total	0	Hydrophytic Vegetation Present	_					
				cover:				No				

Herb Stratum	ve Strata) - L Plot size:	5 ft	Absolute % Cover	Dominant Species?	Indicator Status
Arthraxon hispidu	us		55	Yes	FAC
Symphyotrichum	racemosum		25	Yes	FACW
Microstegium vin	nineum		20	No	FAC
Scirpus cyperinu	s		10	No	FACW
Verbesina alterni	ifolia		5	No	FAC
				-	_
				-	_
				_	_
				_	_
				_	_
				-	
	Total	Cover:	115	50% of total cover:	
Mandy Vina Chrote	Plot			20% of total cover:	23
Woody Vine Strati	um size:	30 ft			
				_	
				-	
				_	-
				_	-
				- 50% of total	_
	Total	Cover:	0	cover:	
				cover:	0
Remarks:					
clude photo ers here or on a arate sheet.)					
,					

	ile Des	cription:	(Desc	ribe to the depth n	eede	d to do	cume	nt the indic	cator or	CC	onfirm the abse	nce	of indicators	.)			
	Depth inches)			<u>Li</u>	tholog	ay					Hue		Color (m Value	oist) Chron	na	%	_
	0-12	Ma	ıtrix:		Silty	Clay L	oam				10YR		5	2		80	7
		Red Featu		Concentrati	on			Matrix			7.5YR		4	6		20	i
		ı Red Featu		_				_			_		_	_			1
		Ма	ıtrix:			_					_		_	_			
		Red Featu		_				_			_		-	_			
		Red Featu		_				_			_		_	_			
		Ма	ıtrix:			_					_		_	_			
		Red Featu		_				_			_		_	_			
. <u></u>		Red Featu		_				_			_		_	_			
		Mat	trix:			_					_		_	_			
		Red Featu		_				_			_		_	_			
		Red Featu		_				_			_		_	_			
Hyd	ric Soil	Indicator	s:										Indicators f	or Proble	ematic	Hydric Soi	ils**:
	Histos	ol (A1)				Dark S	Surfac	e (S7)					2 cm Muck	(A10) (MLRA	147)	
	Histic I	Epipedon	(A2)			Polyva	alue B	Below Surfac	ce (S8)	(1	MLRA 147, 148)		Coast Prairi		(A16)		
	Black I	Histic (A3))			Thin D	Dark S	Surface (S9)	(MLR	A 1	47, 148)		-	l 47, 148) 	.	(F.10)	
	Hydrog	gen Sulfid	e (A4))		Loam	y Gley	ved Matrix (F	F2)			Ш	Piedmont F (MLRA 1	136, 147)	Soils (F19)	
	Stratifi	ed Layers	(A5)		\boxtimes	Deple	ted M	atrix (F3)					Other (Expl	ain in Rer	narks)		
	2 cm N	Muck (A10) (L	RR N)		Redox	x Dark	Surface (F	6)				Very Shallo	w Dark S	urface	(TF12)	
	Deplet	ed Below	Dark	Surface (A11)		Deple	ted Da	ark Surface	(F7)								
	Thick [Dark Surfa	ace (A	12)		Redox	x Depr	ressions (F8	3)							c vegetation e present, u	
	Sandy	Mucky M	ineral	(SiNLRALBB, N,48)		Iron-M	/langa	nese Masse	es (F12)		(LRR N, MLRA	136)	disturbed	or proble	matic.		
	Sandy	Gleyed M	latrix	(S4)		Umbri	ic Surf	face (F13)	(MLRA	13	86, 122)						
	Sandy	Redox (S	55)			Piedm	nont F	loodplain Sc	oils (F19)	(MLRA 148))					
	Strippe	ed Matrix ((S6)			Red P	Parent	Material (F2	21) (ИL	RA 127, 147)						
Res	trictive	Layer (if	obsei	rved):													
	Тур	pe:		Gravel fill							Hydric	Soil	Present?:	X	es	☐ No	
	Der (inche			12													
	Remark	ks: F	Plot lo	cated on old logging	road.												



Photograph Direction WNW

Comments:	

Project/Site:	Mountain Valley F	Pipeline	City/County:	Harrison			Sam	npling Da	te:	Oct	tober 21, 20	14
Applicant/ Owner:	MVP		State:	WV	Samplir	ng Point:		W-B1a-L	JP1			
Investigator(s)	SR CM KL			Section	n, Township	, Range:	: [N/A				
Landform (hillslope, terrace, etc.):	Hillslope		Local Relief (c	oncave, convex	x, none):	Slope	L			Slop	oe (%):	35
Subregion:	LRR	Lat: 39	.360075	Long	: -8	0.49245	53		Datun	n: [NAD 83	
Soil Map Unit Name:	Gilpin-Upshur complex, 3	35 to 70 percent slop	es, severely eroded	NWI classi	fication:	N/A						
Are Vegetation Are Vegetation SUMMARY O	n , Soil , or FINDINGS	Hydrolog Hydrolog	y significantly dist y naturally probler e map showing	urbed? matic?	Are "Norma (If needed,	al Circun explain	nstand any ar	nswers in	ent?: Remark	Ks.)	Yes] No
Hyd	etation Present?: ric Soil Present?: drology Present?:	Yes Yes Yes	No No No	Is the San	npled Area a Wet			Yes	×	No		
Remarks:												
Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	y Indicators: mary Indicators (min (A1) ble (A2) (B1) posits (B2) (B3) crust (B4) (B5) dible on Aerial Image (Leaves (B9) (B13)		required: check a True Aquatic Plan Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ts (B14) Odor (C1) heres on Living uced Iron (C4) ction in Tilled S e (C7)	, ,		Solution Sp. Sp. Mod Dry Cra Sad Stu Ge Sh. Mid	il Surface arsely Ve ainage Pa oss Trim L y-Season ayfish Bu	e Cracks egetated atterns (I Lines (B1 Vater T rrows (C Visible or Stressed C Position uitard (D raphic Re	(B6) Concar B10) 16) Table (Cass) A Aerial Plants n (D2) 3) elief (D4)	Imagery (C	(B8)
	esent?: Yesent?: Yese	es X I):		We	etland	Hydrolo Presen] Ye	s D	₫ No
aerial pho	otos, previous inspe	ections), if avail	lable:									

Plot size:	30 ft	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species		(.)					
0.20.			·		That Are OBL, FACW, or FAC:	1	(A)					
		35	Yes	FAC	Total Number of Dominant Species Across All Strata:	3	(B)					
		30	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	33.33	(A/B					
		15	No	FACU	Prevalence Index worksheet:							
		10	No	FACU	Total % Cover of:	Multiply by	<u>y:</u> 1					
		5	No	FAC	OBL species: x1 =:	0						
			-	_	FACW species: x2 =:	0						
Tota	al Cover:	95	50% of total cover:	47.5	FAC species: x3 =:	0	_					
_			20% of total cover:	19	FACU species: x4 =:	0						
Plot size:	15 ft				UPL species: x5 =:	0						
			_	_	Column Totals: 0 (A)	0	(B)					
			_	_	Prevalence Index = B/A =:	0						
			-	_	Hydrophytic Vegetation Indica	tors:						
			-	_		: Vegetatior	1					
			_	_	3 - Prevalence Index is ≤3.0*							
			-	_	(Provide supporting data	in Remarks						
Tota	al Cover:	0	50% of total cover:	0	*Indicators of hydric soil and wetlar	nd hydrolog						
_			20% of total cover:	0								
Plot size:	15 ft	-1 1										
		3	No	FACU	Sapling - approximately 20 ft (6 m) or	more in heigh	nt and					
			_	_	Shrub - Woody plants, excluding wood		oximately					
				_	All herbaceous (non-woody) pl	ants, including	g					
			_	_								
			_	_	Woody Vine - All woody vines, regar	dless of heigh	nt.					
			_	_								
Tota	al Cover:	3	50% of total cover:	1.5		Y	es					
			20% of total cover:	0.6	Hydrophytic Vegetation Present	?: ⊠ N						
	Total Plot size: Total Plot size:	Total Cover: Plot size: 15 ft Total Cover:	Size: 30 ft % Cover 35 35 30 30 30 30 30 30 30 30 30 30 30 30 30	size: 30 tt % Cover Species? 35 Yes 1 30 Yes 1 15 No 1 10 No 1 5 No 1 7 95 50% of total cover: 20% of total cover: 3 7 7 7 7 7 7 7 7 8 7 7 7 9 7 7 7 15 ft 15 ft 15 ft 15 ft	Size: 30 π % Cover Species? Status	Size: 30 1	Size: Sult % Cover Species? Status That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: Species Across All All All All All All All All All A					

Herb Stratum	Plot size:	5 ft	Absolute % Cover	Dominant Species?	Indicator Status
				_	_
				_	_
				_	-
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
	Tota	al Cover:	0	50% of total cover:	0
Woody Vine Stratu	ım Plot	30 ft		20% of total cover:	0
Smilax rotundifoli	5126.		20	Yes	FAC
				_	
				_	_
				_	
				_	_
	Tota	al Cover:	20	50% of total cover:	10
				20% of total cover:	4
r					
Remarks: nclude photo					
pers here or on a parate sheet.)					
, i					
,					

SOI Profil	L le Desc	ription: (Des	cribe to the depth n	eeded 1	to docum	ent the indicate	or or co	on	firm the abse	nce (of indicators	.)			
	Depth nches)		<u>L</u> i	ithology	,						Color (m				
$\overline{}$	$\stackrel{\cdot}{=}$			0:11				Γ	Hue	7	Value	Chroma	a 	%	٦
)-2	Matrix:		Silt	t Loam			Ļ	10YR		4	4	_ <u> </u> _	100	╛
		Redox Feature:	_			_		L	_		_	_			
		Redox Feature:	_			_			_		_	_			
2	-20	Matrix:		Silt	t Loam				7.5YR		4	4		100	
		Redox Feature:	_			_			_		_	_			
		Redox Feature:	_			_		Ī	_		_	_			٦
		Matrix:			_				_	Ī	_	_			7
		Redox Feature:	_			_			_		_	_			
		Redox Feature:	_			_			_		_	_			
		Matrix:			_				_		_	_			
		Redox Feature:	_			_			_		_	_			
		Redox Feature:	_			_			_		_	_			
Hydri	ic Soil I	ndicators:									Indicators f	or Probler	natic l	Hydric Soi	ils**:
	Histoso	I (A1)			Dark Surfa	ce (S7)					2 cm Muck	(A10) (N	ILRA ·	147)	
	Histic E	pipedon (A2)		F	Polyvalue	Below Surface ((S8) (ML	_RA 147, 148)		Coast Prairi		A16)		
	Black H	istic (A3)			Thin Dark	Surface (S9) (I	MLRA	14	7, 148)	\Box	Piedmont F	147, 148)	cile (E	:10)	
	Hydroge	en Sulfide (A4	-)	<u> </u>	Loamy Gle	yed Matrix (F2))			ш	(MLRA 1	136, 147)	00115 (1	19)	
	Stratifie	d Layers (A5)			Depleted N	Matrix (F3)					Other (Expl	ain in Rem	arks)		
	2 cm M	uck (A10) (I	_RR N)	☐ F	Redox Dar	k Surface (F6)					Very Shallo	w Dark Sur	face (TF12)	
	Deplete	d Below Dark	Surface (A11)		Depleted D	Oark Surface (F7	7)				**!!!				
	Thick D	ark Surface (A	A12)	F	Redox Dep	oressions (F8)					wetland h	rs of hydro ydrology m	ust be		
	Sandy M	Mucky Minera	(SMLRALP, N,48)		Iron-Manga	anese Masses ((F12)	(l	LRR N, MLRA	136)	disturbed	or problem	atic.		
	Sandy (Gleyed Matrix	(S4)		Umbric Su	rface (F13) (M	ILRA 1	36,	, 122)						
	Sandy F	Redox (S5)		F	Piedmont I	loodplain Soils	(F19)		(MLRA 148)						
	Stripped	d Matrix (S6)		F	Red Paren	t Material (F21)	(MI	_R	A 127, 147)						
Restr	rictive L	ayer (if obse	rved):												
	Туре	e:							Hydric	Soil	Present?:	Ye	S	No No	
	Dept (inches														
F	Remark	s:													

Project/Site:	Mountain Valley F	Pipeline	City/County:	Harrison			Sam	npling Da	te:	Oct	tober 21, 20	14
Applicant/ Owner:	MVP		State:	WV	Samplir	ng Point:		W-B1a-L	JP1			
Investigator(s)	SR CM KL			Section	n, Township	, Range:	: [N/A				
Landform (hillslope, terrace, etc.):	Hillslope		Local Relief (c	oncave, convex	x, none):	Slope	L			Slop	oe (%):	35
Subregion:	LRR	Lat: 39	.360075	Long	: -8	0.49245	53		Datun	n: [NAD 83	
Soil Map Unit Name:	Gilpin-Upshur complex, 3	35 to 70 percent slop	es, severely eroded	NWI classi	fication:	N/A						
Are Vegetation Are Vegetation SUMMARY O	n , Soil , or FINDINGS	Hydrolog Hydrolog	y significantly dist y naturally probler e map showing	urbed? matic?	Are "Norma (If needed,	al Circun explain	nstand any ar	nswers in	ent?: Remark	Ks.)	Yes] No
Hyd	etation Present?: ric Soil Present?: drology Present?:	Yes Yes Yes	No No No	Is the San	npled Area a Wet			Yes	×	No		
Remarks:												
Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	y Indicators: mary Indicators (min (A1) ble (A2) (B1) posits (B2) (B3) crust (B4) (B5) dible on Aerial Image (Leaves (B9) (B13)		required: check a True Aquatic Plan Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ts (B14) Odor (C1) heres on Living uced Iron (C4) ction in Tilled S e (C7)	, ,		Solution Sp. Sp. Mod Dry Cra Sad Stu Ge Sh. Mid	il Surface arsely Ve ainage Pa oss Trim L y-Season ayfish Bu	e Cracks egetated atterns (I Lines (B1 Vater T rrows (C Visible or Stressed C Position uitard (D raphic Re	(B6) Concar B10) 16) Table (Cass) A Aerial Plants n (D2) 3) elief (D4)	Imagery (C	(B8)
	esent?: Yesent?: Yese	es X I):		We	etland	Hydrolo Presen] Ye	s D	₫ No
aerial pho	otos, previous inspe	ections), if avail	lable:									

Plot size:	30 ft	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species		(.)					
0.20.			·		That Are OBL, FACW, or FAC:	1	(A)					
		35	Yes	FAC	Total Number of Dominant Species Across All Strata:	3	(B)					
		30	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	33.33	(A/B					
		15	No	FACU	Prevalence Index worksheet:							
		10	No	FACU	Total % Cover of:	Multiply by	<u>y:</u> 1					
		5	No	FAC	OBL species: x1 =:	0						
			-	_	FACW species: x2 =:	0						
Tota	al Cover:	95	50% of total cover:	47.5	FAC species: x3 =:	0	_					
_			20% of total cover:	19	FACU species: x4 =:	0						
Plot size:	15 ft				UPL species: x5 =:	0						
			_	_	Column Totals: 0 (A)	0	(B)					
			_	_	Prevalence Index = B/A =:	0						
			-	_	Hydrophytic Vegetation Indica	tors:						
			-	_		: Vegetatior	1					
			_	_	3 - Prevalence Index is ≤3.0*							
			-	_	(Provide supporting data	in Remarks						
Tota	al Cover:	0	50% of total cover:	0	*Indicators of hydric soil and wetlar	nd hydrolog						
_			20% of total cover:	0								
Plot size:	15 ft	- 1										
		3	No	FACU	Sapling - approximately 20 ft (6 m) or	more in heigh	nt and					
			_	_	Shrub - Woody plants, excluding wood		oximately					
				_	All herbaceous (non-woody) pl	ants, including	g					
			_	_								
			_	_	Woody Vine - All woody vines, regar	dless of heigh	nt.					
			_	_								
Tota	al Cover:	3	50% of total cover:	1.5		Y	es					
			20% of total cover:	0.6	Hydrophytic Vegetation Present	?: ⊠ N						
	Total Plot size: Total Plot size:	Total Cover: Plot size: 15 ft Total Cover:	Size: 30 ft % Cover 35 35 30 30 30 30 30 30 30 30 30 30 30 30 30	size: 30 tt % Cover Species? 35 Yes 1 30 Yes 1 15 No 1 10 No 1 5 No 1 7 95 50% of total cover: 20% of total cover: 3 7 7 7 7 7 7 7 7 8 7 7 7 9 7 7 7 15 ft 15 ft 15 ft 15 ft	Size: 30 π % Cover Species? Status	Size: 30 1	Size: Sult % Cover Species? Status That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: Species Across All All All All All All All All All A					

Herb Stratum	Plot size:	5 ft	Absolute % Cover	Dominant Species?	Indicator Status
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
	Tota	l Cover:	0	50% of total cover:	0
Woody Vine Stratu	um Plot size:	30 ft		20% of total cover:	0
Smilax rotundifoli	L		20	Yes	FAC
				_	_
				_	_
				_	
				_	_
	Tota	l Cover:	20	50% of total cover:	10
				20% of total cover:	4
Г					
Remarks:					
pers here or on a parate sheet.)					

SOI Profil	L le Desc	ription: (Desc	cribe to the depth n	eeded 1	to docum	ent the indicate	or or co	on	firm the abse	nce d	of indicators	.)			
	Depth nches)		<u>L</u> i	ithology	,						Color (m				_
$\overline{}$	$\stackrel{\cdot}{=}$			0:11				Γ	Hue	$\neg \Gamma$	Value	Chroma		%	٦
)-2	Matrix:		Silt	t Loam			Ļ	10YR	_ <u> </u> _	4	4	_	100	╛
		Redox Feature:	_			_		L	_		_	_			
		Redox Feature:	_			_			_		_	_			
2	-20	Matrix:		Silt	t Loam				7.5YR		4	4		100	
		Redox Feature:	_		_				_		_	_			
		Redox Feature:	_			_		Ī	_		_	_			٦
		Matrix:			_				_		_	_			1
		Redox Feature:	_			_			_		_	_			1
		Redox Feature:	_			_			_		_	_			٦
		Matrix:			_				_		_	_			1
		Redox Feature:	_			_			_		_	_			٦
	_	Redox Feature:	_			-			_		-	_			
Hydri	ic Soil I	ndicators:									Indicators f	or Probler	natic I	Hydric Soi	ils**:
	Histoso	I (A1)			Dark Surfa	ce (S7)					2 cm Muck	(A10) (N	ILRA 1	147)	
	Histic E	pipedon (A2)		□ F	Polyvalue	Below Surface ((S8) (ML	_RA 147, 148)		Coast Prairi		A16)		
	Black H	istic (A3)			Thin Dark	Surface (S9) (I	MLRA	147	7, 148)	П	Piedmont F	147, 148)	eile (E	:10)	
	Hydroge	en Sulfide (A4	.)	ı	Loamy Gle	yed Matrix (F2))			Ш	(MLRA 1	136, 147)	oolis (F	19)	
	Stratifie	d Layers (A5)			Depleted N	Matrix (F3)					Other (Expl	ain in Rem	arks)		
	2 cm M	uck (A10) (L	_RR N)	☐ F	Redox Dar	k Surface (F6)					Very Shallo	w Dark Sur	face (TF12)	
	Deplete	d Below Dark	Surface (A11)		Depleted D	Oark Surface (F7	7)				**!!:				
	Thick D	ark Surface (A	A12)	☐ F	Redox Dep	oressions (F8)					wetland h	rs of hydro ydrology m	ust be		
	Sandy M	Mucky Minera	I (SMLRALPAP, N,48)		Iron-Manga	anese Masses ((F12)	(l	LRR N, MLRA	136)	disturbed	or problem	atic.		
	Sandy (Gleyed Matrix	(S4)	□ (Umbric Su	rface (F13) (M	ILRA 1	36,	, 122)						
	Sandy F	Redox (S5)		F	Piedmont I	Floodplain Soils	(F19)		(MLRA 148)						
	Stripped	d Matrix (S6)		F	Red Paren	t Material (F21)	(MI	_R	A 127, 147)						
Restr	rictive L	ayer (if obse	rved):												
	Туре	э:							Hydric	Soil	Present?:	Ye:	S	No No	
	Dept (inches														
F	Remark	s:													

Project/Site:	Mountain Valley F	Pipeline	City/County:	Harrison			Sampling Da	te:	October 21, 2	014
Applicant/ Owner:	MVP		State:	WV	Samplin	g Point:	W-B1a-V	VP1		
Investigator(s)	SR CM KL			Section	n, Township,	Range:	N/A			
Landform (hillslope, terrace, etc.):	Terrace		Local Relief (co	oncave, convex	, none):	Concav	re		Slope (%):	35
Subregion:	LRR	Lat: 39	.360092	Long	: -80.4	92534		Datum	: NAD83	
Soil Map Unit Name:	Gilpin-Upshur complex,	35 to 70 percent slop	es, severely eroded	NWI classi	fication:	PEM				
Are Vegetation Are Vegetation SUMMARY C	on , Soil , or	Hydrolog Hydrolog Attach sit	y significantly dist y naturally probler e map showing	rurbed?	Are "Norma	explain a	stances" presony answers in	ent?: Remarks	Yes [No
Нус	getation Present?: dric Soil Present?: drology Present?:	Yes Yes Yes	No No No	Is the San	npled Area v a Wetla		X Yes		No	
Remarks: Plo	t I									
Surface Water High Water Ta Saturation (A: Water Marks Sediment Deposits Algal Mat or (In In I	imary Indicators: imary Indicators (min er (A1) able (A2) 3) (B1) posits (B2) s (B3) Crust (B4) (B5) sible on Aerial Image d Leaves (B9) a (B13) as: resent?:	ery (B7)	True Aquatic Plan Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in	ots (B14) Odor (C1) heres on Living uced Iron (C4) oction in Tilled S e (C7) Remarks)			Soil Surface Sparsely Ve Drainage Pa Moss Trim L Dry-Season Crayfish Bu	e Cracks egetated (atterns (E Lines (B1) Water Ta rrows (Ca /isible on Stressed c Position Litard (D3 raphic Re LI Test (D3	Concave Surface 310) 6) able (C2) 3) Aerial Imagery (C2) Plants (D1) 1 (D2) 3) Hief (D4)	· (B8)
Saturation P		es 🔀 I	No Depth (inches)):						
aerial ph	ed Data (stream gau notos, previous inspe									
Remarks:										

Tree Stratum_	Plot size:	30 ft	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
				_		Total Number of Dominant		
						Species Across All Strata: Percent of Dominant Species	2	(B)
				_	_ 	That Are OBL, FACW, or FAC:	100	(A/B)
				-	_	Prevalence Index worksheet:	M 10: 1 1	
				-	_	Total % Cover of:	Multiply b	<u>oy:</u> □
				-	_	OBL species: x1 =:	0	
				_		FACW species: x2 =:	0	
L	Tota	l Cover:	0	50% of total cover:	0	FAC species: x3 =:	0	
				20% of total cover:	0	FACU species: x4 =:	0	
Sapling Stratum	Plot size:	15 ft		cover.		UPL species: x5 =:	0	
				-	_	Column Totals: 0 (A)	0	(B)
				-	_	Prevalence Index = B/A =:	0	_
				_	_	Hydrophytic Vegetation Indi	cators:	
				_		1 - Rapid Test for Hydrophy	rtic Vegetatio	on
						2 - Dominance Test is >509	6	
				_	_	3 - Prevalence Index is ≤3.		
				-	_	4 – Morphological Adaptati (Provide supporting da Problematic Hydrophytic Vo	ta in Remark	
	Tota	l Cover:	0	50% of total cover:	0	*Indicators of hydric soil and wet be present, unless disturbed or p	land hydrolo	
	_			20% of total cover:	0	Definitions of Five Vegetation	Strata	
Shrub Stratum	Plot size:	15 ft		·		Definitions of Five Vegetation Woody plants, excluding wood Tree - ft (6 m) or more in height and 3 diameter at breast height (DBI-	in. (7.6 cm) or	
				_	_	Woody plants, excluding Sapling - approximately 20 ft (6 m)	woody vines, or more in heig	ght and
				_	_	Shrub - Woody plants, excluding wo 3 to 20 ft (1 to 6 m) in heigh	ody vines, appr	roximately
				_	_	All herbaceous (non-woody		na
				-	_	Herb - herbaceous vines, regardler plants, except woody vines, ft (1 m) in height.	ss of size, and v	woody
				_	_	Woody Vine - All woody vines, re	gardless of heiç	ght.
				_		-		
	Tota	l Cover:	0	50% of total cover:	0	1	×	Yes
				20% of total	0	Hydrophytic Vegetation Prese	ent?:	
				cover:	1			

ETATION (Figure 1971) Herb Stratum	Plot size:	5 ft	Absolute % Cover	Dominant Species?	Indicator Status
Arthraxon hispidu	IS		55	Yes	FAC
Symphyotrichum	racemosum		25	Yes	FACW
Microstegium vim	nineum		20	No	FAC
Scirpus cyperinus	S		10	No	FACW
Verbesina alterni	folia		5	No	FAC
				_	_
				_	_
				_	_
				_	_
				_	_
				_	_
	Total	Cover:	115	50% of total cover:	
	Plot			20% of total cover:	23
Woody Vine Stratu	ım size:	30 ft	1 1	1	
				_	
				_	
				_	
				_	
				- F00/ of total	_
	Total	Cover:	0	50% of total cover:	
				20% of total cover:	0
Remarks:					
clude photo ers here or on a					
arate sheet.)					

	ile Des	cription:	(Desc	ribe to the depth n	eede	d to do	cume	nt the indic	cator or	CC	onfirm the abse	nce	of indicators	.)			
	Depth inches)		Lithology							Hue		Color (m Value	oist) Chror	ma	%	_	
	0-12	Ma	ıtrix:		Silty	Clay L	oam				10YR		5	2		80	7
		Red Featu		Concentrati	on			Matrix			7.5YR		4	6		20	i
		ı Red Featu		_				_			_		_	_			1
		Ма	ıtrix:			_					_		_	_			
		Red Featu		_				_			_		-	_			
		Redox Feature:					_			_		_	_			<u> </u>	
		Ма	ıtrix:			_					_		_	_			
		Red Featu		_				_			_		_	_			
. <u></u>		Red Featu		_				_			_		_	_			
		Mat	trix:			_					_		_	_			
		Red Featu		_				_			_		_	_			
		Red Featu		_				_			_		_	_			
Hyd	ric Soil	Indicator	s:										Indicators f	or Proble	ematic	Hydric Soi	ils**:
	Histos	ol (A1)				Dark S	Surfac	e (S7)					2 cm Muck	(A10) ((MLRA	147)	
	Histic I	Epipedon	(A2)			Polyva	alue B	Below Surfac	ce (S8)	(1	MLRA 147, 148)		Coast Prairi				
	Black I	Histic (A3))			Thin D	Dark S	Surface (S9)	(MLR	A 1	47, 148)		-	147, 148) 		(F.10)	
	Hydrog	gen Sulfid	e (A4))		Loam	y Gley	ved Matrix (F	F2)			Ш	Piedmont F (MLRA 1	136, 147)		F19)	
	Stratifi	ed Layers	(A5)		\boxtimes	Deple	ted M	atrix (F3)					Other (Expl	ain in Rer	marks)		
	2 cm N	Muck (A10) (L	RR N)		Redox	x Dark	Surface (F	6)				Very Shallo	w Dark S	urface	(TF12)	
	Deplet	ed Below	Dark	Surface (A11)		Deple	ted Da	ark Surface	(F7)								
	Thick [Dark Surfa	ace (A	12)		Redox	x Depr	ressions (F8	3)							c vegetation e present, ι	
	Sandy	Mucky M	ineral	(SiNLRALBB, N,48)		Iron-M	/langa	nese Masse	es (F12)		(LRR N, MLRA	136)	disturbed	or proble	matic.		
	Sandy	Gleyed M	latrix	(S4)		Umbri	ic Surf	face (F13)	(MLRA	13	86, 122)						
	Sandy	Redox (S	55)			Piedm	nont F	loodplain Sc	oils (F19)	(MLRA 148))					
	Strippe	ed Matrix ((S6)			Red P	Parent	Material (F2	21) (ИL	RA 127, 147)						
Res	trictive	Layer (if	obsei	rved):													
	Тур	pe:		Gravel fill							Hydric	Soil	Present?:	X	'es	☐ No	
	Der (inche			12													
	Remark	ks: F	Plot lo	cated on old logging	road.												



Photograph Direction WNW

Comments:		

Project/Site: MVP		City/C	county: Harrison		Sampling Date: 06/05/2015
Applicant/Owner: MVP					Sampling Point: W-A40
Investigator(s): S. Yarbroug	jh, R. Sparhav	vk, W. Shattenber Section	on, Township, Range: N/	<u>-</u> '	_ ,
Landform (hillslope, terrace, etc					Slone (%)· 0
Subregion (LRR or MLRA): LI			Long: <u>-80.</u>		Datum: NAD 83
Soil Map Unit Name: Philo si		Lat			
				NWI classific	
Are climatic / hydrologic conditi	•	•		•	
Are Vegetation, Soil	, or Hydrolo(gy significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrolog	gy naturally problema	atic? (If needed, e	xplain any answe	rs in Remarks.)
SUMMARY OF FINDING	GS – Attach s	site map showing san	pling point locatio	ns, transects	, important features, etc.
		v			
Hydrophytic Vegetation Prese			Is the Sampled Area		
Hydric Soil Present?	Yes		within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Remarks: Cowardin Code: PEM					
HGM: DEPRESSIONAL					
WT: RPWWN	0040				
Wetland extended in a 2	018 survey.				
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required	d; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)		Oxidized Rhizosphere	• , ,	Moss Trim Li	
Water Marks (B1)		Presence of Reduced		-	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Buri	
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	, ,
Inundation Visible on Aer				Shallow Aqui	
✓ Water-Stained Leaves (B	,9)				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:		4			
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):	_		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland H	ydrology Presen	t? Yes No
Describe Recorded Data (stre	eam gauge, moni	toring well, aerial photos, pre	vious inspections), if avai	lable:	
Remarks:					

VEGETATION (Four Strata) – Use scientific

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15')

Herb Stratum (Plot size: 5')

2. Juncus effusus

4. Carex vulpinoidea 5. Eleocharis obtusa____

_{7.} Poa pratensis

Woody Vine Stratum (Plot size: 15')

6. Phalaris arundinacea

1. Carex scoparia

3. Carex frankii

	Absolute	Dominant	Indicator	Dominance Test workshee	et:	
30')		Species?		Number of Dominant Specie That Are OBL, FACW, or FA	es	_ (A)
			·	Total Number of Dominant Species Across All Strata:	4	_ (B)
				Percent of Dominant Specie That Are OBL, FACW, or FA		(A/B)
		-		Prevalence Index workshe	et:	
	0	= Total Cov	er er	Total % Cover of:	Multiply by:	
50% of total cover:0				OBL species	_ x 1 =	_
lot size: 15'				FACW species	_ x 2 =	_
				FAC species	_ x 3 =	_
				FACU species	_ x 4 =	_
				UPL species	_ x 5 =	_
				Column Totals:	_ (A)	(B)
		-	·	Prevalence Index = B	/A =	
				Hydrophytic Vegetation In		
				1 - Rapid Test for Hydro	ophytic Vegetation	
				2 - Dominance Test is >		
				3 - Prevalence Index is	≤3.0 ¹	
		= Total Cov	_	4 - Morphological Adapt	tations ¹ (Provide su	pporting
50% of total cover: 0	20% of	total cover:		data in Remarks or o		
)	20	~	E4 (C) 4/	Problematic Hydrophytic	c Vegetation ¹ (Expla	ain)
	20		FACW_			
	20		F <u>ACW</u>	¹ Indicators of hydric soil and		must
	20		OBL	be present, unless disturbed	•	
	15		OBL OBL	Definitions of Four Vegeta	tion Strata:	
 ea	15		OBL	Tree – Woody plants, exclud	ding vines, 3 in. (7.6	cm) or
	5		F <u>ACU</u>	more in diameter at breast height.		
			·	Sapling/Shrub – Woody plathan 3 in. DBH and greater tm) tall.		
		= Total Cov		Herb – All herbaceous (non- of size, and woody plants le		ardless
50% of total cover: <u>57.5</u> ot size: <u>15'</u>)	20% of	total cover:	23	Woody vine – All woody vin height.	nes greater than 3.2	8 ft in
				Hydrophytic		
				Hydrophytic Vegetation	_	
	0	= Total Cov	er	Present? Yes	✓ No	
	-	total cover:	. 0	1		

Remarks: (Include photo numbers here or on a separate

Wet meadow depression

SOIL Sampling Point: W-A40

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abser	nce of indicators.)
Depth	Matrix		Redo	x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/3	90	7.5YR 5/6	10	С	M/PL	CL	
						- (
					-		-	
	-							
			_			-	·	
			_					
	-							
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Inc	dicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (I	MLRA 147,		Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Sເ	ırface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		_	Piedmont Floodplain Soils (F19)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark					_ Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) ((LRR N,		
	\ 147, 148)		MLRA 13					
	lleyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) (ML R	RA 127, 147	7)	unless disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:			_					_
Depth (ind	ches):		_				Hydric S	Soil Present? Yes 🖊 No
Remarks:							· L	



Photograph Direction SE

Comments:			

Project/Site: MVP		City/C	County: Harrison		Sampling Date: 06/05/2015		
Applicant/Owner: MVP					Sampling Point: W-A40/A41 U		
Investigator(s): S. Yarbrough, R. Sp	arhawk, W						
Landform (hillslope, terrace, etc.): Hillslo					Slope (%): 2		
Subregion (LRR or MLRA): LRRN							
Soil Map Unit Name: Philo silt loam (
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or H		*					
Are Vegetation, Soil, or H				explain any answe			
SUMMARY OF FINDINGS – Att							
Command of Thebreso Acc				, , , , , , , , , , , , , , , , , , , ,	, important reatures, etc.		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present? Remarks:	Yes	No					
UPLAND							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is re	eauired: chec	k all that apply)		Surface Soil			
Surface Water (A1)	•	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)					Drainage Patterns (B10)		
Saturation (A3)			es on Living Roots (C3)	Moss Trim L			
Water Marks (B1)		Presence of Reduced	-	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)	_	Thin Muck Surface (C	C7)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Aerial Imagery	y (B7)			Shallow Aqu	itard (D3)		
Water-Stained Leaves (B9)					aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:	🗸	5 (
Surface Water Present? Yes	No	Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Preser	nt? Yes No		
Describe Recorded Data (stream gauge	, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:			
Damada							
Remarks: No indicators for wetland hydrological remarks:	oav						
Welland Hydroic	yy.						
1							

Sampling Point: W-A40/A41 UP

,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				
3				Total Number of Dominant Species Across All Strata:3 (B)
				Opecies Across Air Otrata.
4				Percent of Dominant Species That Are OBL_FACW_or FAC: 0% (A/B)
5			-	That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
/	0			Total % Cover of: Multiply by:
500/ (/ /)		= Total Co		OBL species x 1 =
50% of total cover: 0	20% of	total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				
1				FAC species x 3 =
2	-			FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravalance Index D/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
J	0	= Total Co		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover	_	4 - Morphological Adaptations ¹ (Provide supporting
E!	20 /6 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5) 1. Plantago lanceolata	20	~	LIDI	Problematic Hydrophytic Vegetation ¹ (Explain)
	20	<u> </u>	UPL	
2. Poa pratensis			F <u>ACU</u>	¹ Indicators of hydric soil and wetland hydrology must
3. Trifolium pratense	20		F <u>ACU</u>	be present, unless disturbed or problematic.
4. Bromus sp.	15		ND	Definitions of Four Vegetation Strata:
5. Dactylis glomerata	15		FACU_	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
				,
11	90	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		= Total Cover total cover		of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15')	20 % 01	iolai covei		Woody vine - All woody vines greater than 3.28 ft in
				height.
1				
2		·		
3				
4				Hydrophytic
5				Vegetation
	0	= Total Co	ver	Present? Yes No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND - Not Determined.				

Sampling Point: W-A40/A41 UP

SOIL

Depth	Matrix		Redox Features	2 - .			
nches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc			Remarks	
0-14	10YR 3/3	100		<u>C</u>	<u> </u>		
							
 -							
	ncentration D-Den	etion PM-P	educed Matrix, MS=Masked Sand Grains.	² l ocat	ion: PL=Pore Lin	ing M-Matrix	,
ype. C=Coi ∕dric Soil In		elion, Kivi=K	educed Matrix, MO=Masked Sand Grains.	LUCAL	Indicators for P		
_ Histosol (Dark Surface (S7)			A10) (MLRA	
_ ,	pedon (A2)		Polyvalue Below Surface (S8) (MLRA	147 148)	Coast Prairie		
_ Black His			Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 14		,
	Sulfide (A4)		Loamy Gleyed Matrix (F2)	10)		oodplain Soils	s (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(* 10)
	ck (A10) (LRR N)		Redox Dark Surface (F6)			v Dark Surfac	e (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks	s)
	k Surface (A12)		Redox Depressions (F8)				
	ucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12) (LRR I	٧,			
	147, 148)		MLRA 136)				
	eyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122		³ Indicators of h		-
Sandy Re			Piedmont Floodplain Soils (F19) (MLR		wetland hydro		
	Matrix (S6)		Red Parent Material (F21) (MLRA 127	', 147 <u>)</u>	unless disturb	ed or problen	natic.
Restrictive La	ayer (if observed):						
Type:			_				,
	hes).		<u> </u>	Hydr	ic Soil Present?	Yes	_ No <u> </u>
Depth (inch	100).						
emarks:	e for hydric soil						
emarks:							
emarks:							
lemarks:							
emarks:							
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emarks:							
emarks:							
emarks:							

Project/Site: MVP			City/C	county: Harrison		Sampling Date: 09/23/2015		
Applicant/Owner: MVP State: WV								
Investigator(s): Townsend,	Prilepin, Th	erkildso						
Landform (hillslope, terrace, et						litch Slope (%): 0%		
Subregion (LRR or MLRA): L	RRN	La	39.290276	Long: -80.	518892			
Soil Map Unit Name: Urban	land	Lа	u. <u></u>	Long	NIM/L alabatic	cation: N/A		
Are climatic / hydrologic condit						_		
					Circumstances"	present? Yes No		
Are Vegetation, Soil	, or Hydro	ology	naturally problema	atic? (If needed, e	xplain any answe	ers in Remarks.)		
SUMMARY OF FINDIN	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Pres	ent? V	es 🗸	No					
Hydric Soil Present?		es 🖊	No	Is the Sampled Area	🗸			
Wetland Hydrology Present?		es 🔽	No	within a Wetland?	Yes	No		
Remarks: Cowardin Code: PFO HGM								
				The second and second	:-:	0040 Barrage of well-and		
hydrology, hydrophytic veg methodology. The wetland	jetation, and was cleared	s the da hydric s of wood	ata collected in 2015 soils was confirmed u dv vegetation within I	. The wetland was revi Ising the USACE EMP LOD as part of Project	Regional Supp	2019. Presence of wetland lement delineation 2018. Vegetation listed on		
this form represents the ve	getative com	munity	present in the wetlan	nd prior to the start of c	onstruction.			
HYDROLOGY								
Wetland Hydrology Indicate					Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum	of one is requ				Surface Soil Cracks (B6)			
Surface Water (A1)			_ True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)					Drainage Pa	,		
					Moss Trim L	n Lines (B16)		
						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)		_,				hic Position (D2)		
Inundation Visible on Ae	0 , .	7)			Shallow Aqu			
Water-Stained Leaves (F	39)		·			ographic Relief (D4)		
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)		
Field Observations:	V	/	Death (Seekee)					
Surface Water Present?			Depth (inches):	6"				
Water Table Present?			Doptii (inches)					
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland H	ydrology Preser	nt? Yes <u>/</u> No		
Describe Recorded Data (str	eam gauge, m	onitoring	well, aerial photos, pre	vious inspections), if avai	lable:			
Describe								
Remarks: Most of wetland is fores	امم طائنیا مما		nogundo					
liviosi of wetland is lores	teu with San	x, acei	negunao.					

יחפ	Absolute <u>% Cover</u>	Dominant	maicator	Dominance Test worksheet:		
1. Acer negundo		Species?		Novel and Descional Operator		
••	10	V	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
z	10		FACW			_ (/ (/
3. Platanus occidentalis	5		1 <u>AOW</u>	Total Number of Dominant	4	(D)
4. Lindera benzoin	10	~	FACW	Species Across All Strata:		(B)
			IAOV	Percent of Dominant Species	1000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				Prevalence Index worksheet:		
7	35	= Total Co		Total % Cover of:	Multiply by:	
50% of total cover:17.5	20% of	total covo	ver 7	OBL species x	1 =	
Sapling/Shrub Stratum (Plot size: 15')	20 /6 01	total cover		FACW species x		
Capinig/Ornab Ottatam (1 lot 5/20)				FAC species x		
1				FACU species x		
2				UPL species x		
3				Column Totals: (A		
4				Column Totals (A)	(b)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		
7				1 - Rapid Test for Hydrophyt	ic Vegetation	
8		-		2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0		
		= Total Co		4 - Morphological Adaptation		portina
50% of total cover:0	20% of	total cover	r:0	data in Remarks or on a s		-
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Veg		
1. Polygonum sp.	10			1 Toblematic Hydrophytic Vet	getation (Expir	AII 1)
2. Phalaris arundinacea	50		FACW_	¹ Indicators of hydric soil and wetl	and hydrology	muet
3. Toxicodendron radicans	5			be present, unless disturbed or p		must
4. Bidens sp.	5			Definitions of Four Vegetation		
5						
6				Tree – Woody plants, excluding more in diameter at breast height		
7				height.	t (DBi i), Tegalo	11633 01
8				On the wild water Wands at a standard		
9				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than		
10				m) tall.		(.
				Harb All barbassassa (non usa	du) planta raga	ardlaga
	70 .	= Total Co	ver	Herb – All herbaceous (non-woo of size, and woody plants less that		aluless
50% of total cover: <u>35</u>		total cover				
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines g height.	reater than 3.2	8 ft in
1				noight.		
2						
3						
4						
5.		-		Hydrophytic Vegetation		
·	0 .	= Total Co	vor	Present? Yes	No	
		total cove	_			
50% of total cover: 0		total oovol				

SOIL Sampling Point: W-UU1

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	ndicator	or confirm	the absen	ce of indicators.)
Depth	Matrix			x Features	3			
(inches) 0-4"	Color (moist) 5yr3/1	<u>%</u> 80%	Color (moist) 5yr5/8	<u>%</u>	Type ¹	Loc ²	Texture Silty mud	Remarks
4-6"	10yr2/1	100%		20 /0			Silt mucl	
7-14"		100%					Silt	
7-14	10yr2/2	100%					Siit	_
¹Type: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Ind	icators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) (N	ILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		_	Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	3)			
Sandy M	lucky Mineral (S1) (LRR N,	Iron-Mangan	ese Mass	es (F12) (I	_RR N,		
MLRA	147, 148)		MLRA 13	66)				
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³	ndicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					wetland hydrology must be present,
-	Matrix (S6)		Red Parent I					unless disturbed or problematic.
Restrictive I	ayer (if observed)	:		-				•
Type:								
Depth (inc	chas).						Hydric S	oil Present? Yes 🗸 No
Remarks:							Tiyane o	on resent: res No
drainage								

Wetland Photograph Page

Wetland ID W-UU1



Photograph Direction West

Date: 09/23/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	County: Harrison		Sampling Date: 09/23/2015		
Applicant/Owner: MVP			, <u> </u>		Sampling Point: W-UU1-UP		
Investigator(s): Townsend, Therkilds	on, Sexton,						
Landform (hillslope, terrace, etc.): Valley					itch Slope (%): 2%		
Subregion (LRR or MLRA): LRRN					Datum: NAD83		
Soil Map Unit Name: Urban land							
Are climatic / hydrologic conditions on the	site tynical for						
Are Vegetation, Soil, or Hy		· ·					
Are Vegetation, Soil, or Hy							
SUMMARY OF FINDINGS – Atta	ich site ma	ap snowing san	npling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present?	Yes	No					
Remarks: Upland							
Opiana							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is re-	quired; check	all that apply)		Surface Soil (Cracks (B6)		
Surface Water (A1)		True Aquatic Plants ((B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	!	lor (C1)	Drainage Pat	terns (B10)			
Saturation (A3)	(Oxidized Rhizospher	es on Living Roots (C3)				
Water Marks (B1)	!	Presence of Reduced	d Iron (C4)	Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)	ا	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr			
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_ (Other (Explain in Rer	marks)	· 	ressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	, ,		
Inundation Visible on Aerial Imagery	(B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)					phic Relief (D4)		
Aquatic Fauna (B13)			т	FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present? Yes	No.	Depth (inches):					
Water Table Present? Yes	No V	Depth (inches):					
		Depth (inches):		lydrology Presen	t? Yes No ✔		
(includes capillary fringe)					tr res No		
Describe Recorded Data (stream gauge,	monitoring w	ell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							
Disturbed soils, veg and hydrolog	y due to m	ovement of fill in	this commercial yar	d.			

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

Sampling Po	int: W-UU1-UP1

30'	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC:1 (A)
2	·	Total Number of Dominant
3		Species Across All Strata:1 (B)
4		
5		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6		That Are OBL, FACW, OF FAC.
7		Prevalence Index worksheet:
T	0 = Total Cover	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')	2070 Of total cover	FACW species x 2 =
Caping/ornab otratam (1 lot size)		FAC species x 3 =
1		FACU species x 4 =
2		
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		
9		2 - Dominance Test is >50%
	0 = Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover: 0	20% of total cover: 0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')		data in Remarks or on a separate sheet)
1. Rubus armeniacus	5	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Poa pratensis	20 ✓ FACU	
3. Toxicodendron radicans	5 TACO	¹ Indicators of hydric soil and wetland hydrology must
4. Parthenocissus cinquefolia		be present, unless disturbed or problematic.
5. Symphyotrichum ericoides		Definitions of Four Vegetation Strata:
	- <u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Solidago sp.		more in diameter at breast height (DBH), regardless of
7		height.
8		Sapling/Shrub – Woody plants, excluding vines, less
9	·	than 3 in. DBH and greater than or equal to 3.28 ft (1
10		m) tall.
11		Herb – All herbaceous (non-woody) plants, regardless
	45 = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>22.</u>	5 20% of total cover: 9	Manakasina Allamankasina manakasihan 0.00 (i.i.
Woody Vine Stratum (Plot size:15')		Woody vine – All woody vines greater than 3.28 ft in height.
1		Horgiti.
2		
3		
	·	
4	·	Hydrophytic
5	0 = Total Cover	Vegetation Present? Yes ✓ No
500/ (1.1.)	= 10tal 00vci	Tresent: Tes No
50% of total cover:0	20 % of total ocver:	
Remarks: (Include photo numbers here or on a separate s	sheet.)	
		· ·

SOIL Sampling Point: W-UU1-UP1

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of	of indicators.)
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
0-14" 5yr4/4		Silty clay	
			_
			_
	Reduced Matrix, MS=Masked Sand Grains.		=Pore Lining, M=Matrix.
Hydric Soil Indicators:			ors for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)		m Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	148) Co	ast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		edmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		ry Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Ot	ner (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)	31	store of burdench discussion and
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		eators of hydrophytic vegetation and
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA 14)Red Parent Material (F21) (MLRA 127, 147		and hydrology must be present, ess disturbed or problematic.
Restrictive Layer (if observed):	Red Farent Material (F21) (MERA 121, 141) unie	ess disturbed of problematic.
Type:			
Depth (inches):		Hydric Soil F	Present? Yes No
Remarks:			

Project/Site: MVP		City/C	ounty. Harrison		Sampling Date: 09/24/2015		
Applicant/Owner: MVP					_ Sampling Point: W-UU3		
Investigator(s): Townsend, The	erkildson, Sext						
Landform (hillslope, terrace, etc.):					litch Slope (%): 0%		
Subregion (LRR or MLRA): LRR		_at: 39.289928	Long: -80.	518333	Datum: NAD 83		
Soil Map Unit Name: Urban Ian		.al	Long	NNA/L ala a a'C' a	Datum		
Are climatic / hydrologic conditions		-					
Are Vegetation, Soil	_, or Hydrology _	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil	_, or Hydrology _	naturally problema	atic? (If needed, ex	xplain any answer	s in Remarks.)		
SUMMARY OF FINDINGS-Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?	Yes •	No					
Hydric Soil Present?	Yes V	No	Is the Sampled Area within a Wetland?	Vas V	No		
Wetland Hydrology Present?	Yes	No	within a wettand:	165			
Remarks: Cowardin Code: PFO HGM: F	Riverine WT: RI	PWWN					
Information listed on this form hydrology, hydrophytic vegeta methodology. The wetland wa this form represents the veget	Information listed on this form represents the data collected in 2015. The wetland was revisited on 09/18/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology. The wetland was cleared of woody vegetation within LOD as part of Project construction in 2018. Vegetation listed on this form represents the vegetative community present in the wetland prior to the start of construction.						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of c	one is required; ch	eck all that apply)		Surface Soil (Cracks (B6)		
Surface Water (A1)	Sparsely Veg	etated Concave Surface (B8)					
High Water Table (A2)	Drainage Pat	terns (B10)					
Saturation (A3)	_	Oxidized Rhizosphere	• , ,	Moss Trim Li	, ,		
Water Marks (B1)		Presence of Reduced		Dry-Season \	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 Ren			ressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aerial	Imagany (P7)			Geomorphic			
Water-Stained Leaves (B9)	illiagery (b7)		•	Shallow Aqui Microtopogra	, ,		
Aquatic Fauna (B13)				FAC-Neutral			
Field Observations:					1001 (20)		
	es No	Depth (inches):					
		Depth (inches):					
				ydrology Presen	t? Yes ✔ No		
(includes capillary fringe)		Doptii (iiioiioo)			1: 163 110		
Describe Recorded Data (stream	gauge, monitorin	g well, aerial photos, pre	vious inspections), if avail	lable:			
Remarks:							
Nomano.							

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

Sapling/Shrub Stratum (Plot size: 15')

__)

Tree Stratum (Plot size:

1. Acer negundo

Acer negundo

Herb Stratum (Plot size: _

1. Glechome hederacea 2. Impatiens capensis

3. Myosotis scorpoides

4. Lysimachia nummularia

Woody Vine Stratum (Plot size: 15'

Sampling Point: W-UU3 Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: ____ (A) **Total Number of Dominant** (B) Species Across All Strata: Percent of Dominant Species 100 That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. FACW_ **Definitions of Four Vegetation Strata:** 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 50% of total cover: 55 20% of total cover: 22 Woody vine - All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

This wetland has approx 60% tree cover on average, though point was taken in a more open portion where there was only 20% cover. Trees growing within wetland boundaries include acer negundo, salix nigra. Shrubs include spicebush and blackberry.

0 = Total Cover

50% of total cover: 0 20% of total cover:

110 = Total Cover

= Total Cover

5 = Total Cover

OBL

Hydrophytic Vegetation

Present?

50% of total cover: ___10__ 20% of total cover: __4

50% of total cover: 2.5 20% of total cover: 1

60

20

W-UU3

Sampling Point: ___

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the ir	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Features	i				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-1"							Organic		
1-5"	10yr4/2	97	7.5yr4/6	3			Clayey sil		
5-16"	2.5yr4/3						Silt loam		
								-	
									_
	·								
							-		_
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.	. 3
Hydric Soil I								ators for Problematic Hydric Soil	ls":
Histosol			Dark Surface		(00) (5)			cm Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Be				148) C	Coast Prairie Redox (A16)	
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye			47, 148)	n	(MLRA 147, 148) Piedmont Floodplain Soils (F19)	
	l Layers (A5)		Depleted Ma		<i>د</i> ا		<u> </u>	(MLRA 136, 147)	
	ick (A10) (LRR N)		Redox Dark		6)		V	ery Shallow Dark Surface (TF12)	
	Below Dark Surface	e (A11)	Depleted Da					Other (Explain in Remarks)	
	ark Surface (A12)	, ,	Redox Depre					, ,	
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	LRR N,			
	A 147, 148)		MLRA 13						
	lleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation a	ind
	edox (S5)		Piedmont Flo					etland hydrology must be present,	
	Matrix (S6)		Red Parent N	/laterial (F2	21) (MLR .	A 127, 147	7) un	less disturbed or problematic.	
	_ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil	Present? Yes V No	
Remarks:									

Wetland Photograph Page

Wetland ID W-UU3 Cowardin Code PFO



Photograph Direction NNE

Date: 09/24/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	county: Harrison		Sampling Date: 09/24/2015	
Applicant/Owner: MVP				State: WV	Sampling Point: W-UU3-UP	
Investigator(s): Townsend,	Therkildson, Sex	cton, Prilepin Section	on, Township, Range: N		<u> </u>	
- ' '			· · · · · ·		Slope (%): 10%	
Subregion (LRR or MLRA): L			Long: <u>-80</u>		Datum: NAD 83	
		Lat. Confidence in	Long			
Soil Map Unit Name: Urban				NWI classific		
Are climatic / hydrologic condi		· · · · · · · · · · · · · · · · · · ·				
Are Vegetation, Soil _	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No	
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)	
SUMMARY OF FINDIN	IGS – Attach sit	e map showing san	npling point location	ons, transects	, important features, etc.	
Hydrophytic Vegetation Pres	cent? Vec	No				
Hydric Soil Present?		No	Is the Sampled Area		•/	
Wetland Hydrology Present?		No	within a Wetland?	Yes	No	
Remarks:						
Upland						
HYDROLOGY						
Wetland Hydrology Indicat	tors:			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum	of one is required; o	heck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Veg	getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa		
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Li	ines (B16)	
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)			
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)					Position (D2)	
Inundation Visible on Ae				Shallow Aqu		
Water-Stained Leaves (B9)			· -	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:	.,	V = 0.000				
Surface Water Present?		Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland H	Hydrology Preser	nt? Yes No	
Describe Recorded Data (str	ream gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:	4le alala a		Savialis laudinaasi laaa			
Disturbed site, fill on bo stream bed. This plot ha						
istream bed. This plot na	as no welland inc	licators. Trees growii	ig outside of wettan	a include wain	ut, locust, box elder.	

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

30'

Sapling/Shrub Stratum (Plot size: 15')

3. Lysimachia nummularia

Woody Vine <u>Stratum</u> (Plot size: 15')

Tree Stratum (Plot size: __

Herb Stratum (Plot size: _ 1. Verbesina alterniflora 2. Glechome hederacea

4. Trifolium repens

___)

50% of total cover: 45 20% of total cover: 18

50% of total cover: 0 20% of total cover:

0 = 10tal cover 50% of total cover: 0 = 20% of total cover: 0

50% of total cover: ___0

5. Aster puniceus 5

nes of	plants.		Samplin	g Point	: W-UU3-	UP
bsolute			Dominance Test worksho	eet:		
<u>6 Cover</u>	Species?	Status	Number of Dominant Spec That Are OBL, FACW, or F		1	(A)
			Total Number of Dominant Species Across All Strata:		2	_ (B)
			Percent of Dominant Spec That Are OBL, FACW, or F		50	_ (A/B
			Prevalence Index worksh	neet:		
0 .	= Total Cov		Total % Cover of:	<u>N</u>	Multiply by:	
	total cover:	^	OBL species	x 1 =	: <u></u>	
			FACW species	x 2 =	:	
			FAC species	x 3 =	:	
			FACU species	x 4 =	: <u></u>	
			UPL species	x 5 =	: <u></u>	
			Column Totals:	(A)		(B)
			Prevalence Index =	R/Δ =		
			Hydrophytic Vegetation			
			1 - Rapid Test for Hyd			
			2 - Dominance Test is		vogotation	
			3 - Prevalence Index i			
	= Total Cov	_	4 - Morphological Ada		(Provide su	pportin
20% of	total cover:	0	data in Remarks or			
10			Problematic Hydrophy			,
10					(p	,
25 40		F <u>ACU</u>	¹ Indicators of hydric soil ar	nd wetlan	d hydrology	must
10		F <u>ACW</u>	be present, unless disturbe	ed or prob	olematic.	
5			Definitions of Four Vege	tation St	rata:	
			Tree – Woody plants, excl more in diameter at breast height.			
			Sapling/Shrub – Woody p than 3 in. DBH and greater m) tall.			
	= Total Cov	4.0	Herb – All herbaceous (no of size, and woody plants I			ardless
20% of	total cover:	10	Woody vine – All woody v height.	vines grea	iter than 3.2	28 ft in
	= Total Cov	^	Hydrophytic Vegetation Present? Yes _		No <u> </u>	
20% of	total cover:	<u> </u>				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: W-UU3-UP

Profile Desc	cription: (Describe t	o the depth	needed to docur	ment the i	ndicator	or confirm	the ab	sence of indicat	ors.)	
Depth	Matrix		<u>Re</u> do	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text		Remarks	
0-9"	7.5yr4/4	100					SIC	CL		
			_				-			-
			-							_
								 -		
										_
¹ Type: C=C	oncentration, D=Deple	etion. RM=R	educed Matrix. M	S=Masked	Sand Gra	ins.	² Locat	ion: PL=Pore Lin	ing. M=Matrix.	_
Hydric Soil			, , , , , , , , , , , , , , , , , , , ,					Indicators for P	roblematic Hy	dric Soils³:
Histosol			Dark Surface	e (S7)					(A10) (MLRA 1 4	
	pipedon (A2)		Polyvalue Be		ce (S8) (N	LRA 147	148)		e Redox (A16)	,
	istic (A3)		Thin Dark Su				,	(MLRA 1	, ,	
	en Sulfide (A4)		Loamy Gleye			,,			loodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,			(MLRA 1		,
	uck (A10) (LRR N)		Redox Dark		6)				w Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Da						ain in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	essions (F8	3)					
Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	_RR N,				
MLR	A 147, 148)		MLRA 13	6)						
	Gleyed Matrix (S4)		Umbric Surfa						nydrophytic vege	
Sandy F	Redox (S5)		Piedmont Flo					wetland hydro	ology must be p	resent,
	d Matrix (S6)		Red Parent N	Material (F	21) (MLR	4 127, 147	7)	unless disturb	oed or problema	atic.
	Layer (if observed):									
Туре: <u>G</u>										
Depth (in	ches): <u>9"</u>		_				Hydri	ic Soil Present?	Yes	No 🗸
Remarks:										

Project/Site: MVP	City/County: Harrison	Sampling Date: 09/18/2019
Applicant/Owner: MVP	State: W	/V Sampling Point: W-UU4a
Investigator(s): JMM, HS, JL	Section, Township, Range: N/A	
	Local relief (concave, convex, none): River	terrace Slope (%): 0%
Subregion (LRR or MLRA): LRRN La		
Soil Map Unit Name: Udifluvents and Fluvaque		
	for this time of year? Yes No (If no, expla	·
Are Vegetation, Soil, or Hydrology		nces" present? Yes No
Are Vegetation, Soil, or Hydrology		
SUMMARY OF FINDINGS – Attach site i	nap showing sampling point locations, trans	sects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes <u>✓</u>	Is the Sampled Area No within a Wetland? Yes	No
Wetland Hydrology Present? Yes	No	<u> </u>
Remarks: Cowardin Code: PEM HGM: Riverine WT	: RPWWN	
3 Sections delineated in 2019 from origina	2015 surveys due to timbermats and change of	of land use of surrounding field
(grazing to fallow) that allowed wetland to	meet criteria.	· ·
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che		e Soil Cracks (B6)
Surface Water (A1)		ely Vegetated Concave Surface (B8)
High Water Table (A2)		age Patterns (B10)
		Trim Lines (B16)
<u> </u>	• • • • • • • • • • • • • • • • • • • •	eason Water Table (C2)
		sh Burrows (C8)
Drift Deposits (B3)		ation Visible on Aerial Imagery (C9)
		ed or Stressed Plants (D1)
Iron Deposits (B5)	<u>✓</u> Geom	orphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallo	w Aquitard (D3)
Water-Stained Leaves (B9)	Microt	opographic Relief (D4)
Aquatic Fauna (B13)	<u>✓</u> FAC-N	leutral Test (D5)
Field Observations:		
	_ Depth (inches):	
	_ Depth (inches):	
	_ Depth (inches): Wetland Hydrology F	Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if available:	
Remarks:		
Remarks.		

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

____)

50% of total cover: ___0

% Cover Species? Status

_ = Total Cover

0 = Total Cover

15

15

5

5

10

15

10

50% of total cover: ____50___ 20% of total cover: ___20

50% of total cover: 0 20% of total cover:

20% of total cover:_ 0

F<u>ACW</u>

✓ OBL

OBL

✓ OBL FAC

OBL

100 = Total Cover

0 = Total Cover

OBL

_ FACW

__ F<u>ACU</u>

OBL

50% of total cover: 0 20% of total cover: 0

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: __

Herb Stratum (Plot size: _ 1. Cyperus esculentus

3. Scirpus atrovirens

5. Persicaria pensylvanicum

6. Symphyotrichum ericoides

8. Microstegium vimineum

10. Lysimachia nummularia

Woody Vine Stratum (Plot size: 15'

4. Carex vulpinoidea

2. Glyceria striata

7. Carex frankii

9. Carex lurida

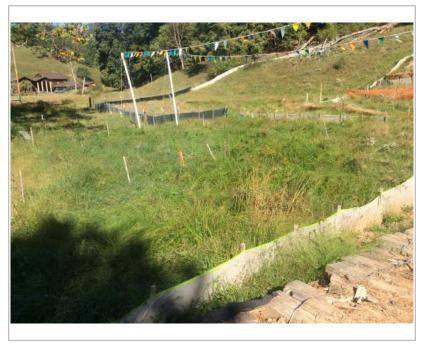
	Sampling Poi	nt: <u>W-UU4a</u>						
	Dominance Test worksheet:							
	Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)					
	Total Number of Dominant Species Across All Strata:	3	(B)					
	Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)					
-	Prevalence Index worksheet:							
-	Total % Cover of:	Multiply by:						
	OBL species x 1							
-	FACW species x 2							
		3 =						
-		1 =						
-	UPL species x 5							
-	Column Totals: (A)							
			_ , ,					
	Prevalence Index = B/A =		_					
	Hydrophytic Vegetation Indicat							
_	1 - Rapid Test for Hydrophyti	c vegetation						
	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹							
-								
-	4 - Morphological Adaptations ¹ (Provide supporting							
	data in Remarks or on a separate sheet)							
	Problematic Hydrophytic Veg	jetation (Expia	in)					
-	¹ Indicators of hydric soil and wetle be present, unless disturbed or p		must					
-	Definitions of Four Vegetation	Strata:						
	Tree – Woody plants, excluding wore in diameter at breast height height.	rines, 3 in. (7.6 (DBH), regardl	cm) or less of					
1 1	Sapling/Shrub – Woody plants, of than 3 in. DBH and greater than 6 m) tall.							
ı	Herb – All herbaceous (non-wood of size, and woody plants less that		rdless					
	Woody vine – All woody vines gr height.	eater than 3.28	3 ft in					
-								
-								
-								
-	Hydrophytic							
	Vegetation Present? Yes	No						

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: W-UU4a

Profile Desc	ription: (Describe t	to the dept	h needed to docun	nent the	indicator	or confirm	the abso	ence of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Textu	
0-8	7.5YR 4/2	95	7.5YR 5/8	5	<u>C</u>	M/PL	CL	
8-16	10 YR 4/3	95					GRS	<u> </u>
+16	10YR 6/6	100					CL	
				-				
				-		. ———		
					-			
				-				
¹Type: C=Cd	oncentration, D=Depl	etion RM-	-Reduced Matrix MS	S-Masker	d Sand Gr	aine	² l ocatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil		etion, ixivi–	reduced Matrix, Mc)—IVIASKE	J Sand Gr	airis.		ndicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ice (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su					(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		_	Piedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S	•	,		_	Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				-	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDN		
	lucky Mineral (S1) (L \ 147, 148)	.KK N,	Iron-Mangan		es (F12) (LKK N,		
	lleyed Matrix (S4)		Umbric Surfa	-	(MIRA 13	6. 122)		³ Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo				8)	wetland hydrology must be present,
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	_ayer (if observed):				, ,		ĺ	·
Type:								
Depth (inc	ches):						Hydric	Soil Present? Yes V No No
Remarks:								

Wetland ID W-UU4a Cowardin Code PEM Date 09/18/2019



Photograph Number __1_ Photograph Direction NW

Comments:



Photograph Number 2

Photograph Direction West

Comments:

Project/Site: MVP		City/0	County: Harrison		_ Sampling Date: 09/18/19
Applicant/Owner: MVP			,	State: PA	Sampling Point: W-UU4a-UPL
Investigator(s): JMM, HS, J	 L				
Landform (hillslope, terrace, et					Slope (%): 0%
Subregion (LRR or MLRA): L		t: 39.253086	Long: <u>-80</u>	.540562	Datum: NAD 83
Soil Map Unit Name: Udifluve					ication: None
Are climatic / hydrologic condit					
· · · · · · · · · · · · · · · · · · ·					present? Yes No
Are Vegetation, Soil					vers in Remarks.)
				•	•
SUMINARY OF FINDING	GS – Attach site i	nap snowing san	npling point location	ons, transect	s, important features, etc.
Hydrophytic Vegetation Prese			Is the Sampled Area		
Hydric Soil Present?	Yes		within a Wetland?	Yes	No <u> </u>
Wetland Hydrology Present?	Yes 🗸	No			
Remarks: Cowardin Co	ode: UPLAND	HGM:	Water Type:		
LIVEROLOGY					
HYDROLOGY Wetland Hydrology Indicate				Socondary India	cators (minimum of two required)
Primary Indicators (minimum		ok all that apply)		Surface So	-
Surface Water (A1)	or one is required, chec	True Aquatic Plants	(D14)		egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od			atterns (B10)
Saturation (A3)	<u></u>		es on Living Roots (C3)	=	Lines (B16)
Water Marks (B1)		Presence of Reduce			n Water Table (C2)
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Bu	
Drift Deposits (B3)	_	Thin Muck Surface (-	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or	Stressed Plants (D1)
Iron Deposits (B5)				Geomorphi	c Position (D2)
Inundation Visible on Ae				Shallow Aq	
Water-Stained Leaves (E	39)				raphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	al Test (D5)
Field Observations:	Van Na 🗸	Donath (in the co)			
Surface Water Present?		_ Depth (inches): Depth (inches):			
Water Table Present?					
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches):	wetland i	Hydrology Prese	ent? Yes V No
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ailable:	
Demodes					
Remarks:					

Sampling P	oint: W-l	JU4a-	UPL
Sallibilliu F	Ullit. * * `	a	· -

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Descions
3				Total Number of Dominant Species Across All Strata:3 (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 33% (A/B)
		-		That Are OBL, FACW, or FAC: 33% (A/B)
6				Prevalence Index worksheet:
·	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20 /6 01	total cover		FACW species x 2 =
Saping/Snrub Stratum (Plot size)				FAC species x 3 =
1		-		FACU species x 4 =
2		-		
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	0	= Total Cov	/er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover	_	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Dactylis glomerata	25	/	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Trifolium pratense	20		FACU	
3. Microstegium vimineum	15		FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Apocynum cannabinum	10		FACU	be present, unless disturbed or problematic.
5. Solanum carolinense				Definitions of Four Vegetation Strata:
			FACU FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Taraxicum officinal			- ——	more in diameter at breast height (DBH), regardless of
7. Trifolium repens	5		FACU	height.
8. Symphyotrichum ericoides	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less
9. Cyperus esculentus	5		FACW_	than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		total cover		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
1.				neight.
2.				
3				
_				
· ·		-		Hydrophytic
5	0			Vegetation Present? Yes No ✓
50% of total cover: 0		= Total Cover	_	· · · · · · · · · · · · · · · · · · ·
		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: W-UU4a-UPL

SOIL

Profile Desc	cription: (Describe t	to the dept	h needed to docur	ment the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Feature			- .	5 .
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8	10YR 4/4	100			<u> </u>		SiL	·
8-14	7.5YR 4/2	95	7.5YR 4/6	5	С	M/PL	SiL	
				_	-			
					•			
				-	-		-	
	·							
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)	-	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	uck (A10) (LRR N)		Depleted Ma Redox Dark		E6)		,	(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da	,	,			Other (Explain in Remarks)
	ark Surface (A12)	, (, (, ,)	Redox Depre					etror (Explain in remaine)
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13		` , ,			
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	6, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent I	Material (F	-21) (MLR	A 127, 147	7) ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								,
Depth (in	ches):						Hydric Soi	il Present? Yes No
Remarks:							1	
1								

Project/Site: MVP			City/County: Harrison		Sampling Date: 10/22/2014	
Applicant/Owner: MVP					Sampling Point: W-A10a	
Investigator(s): E. Strohmai	er, D. McCullo	ough, M. Whitten	Section, Township, Range: N		_	
Landform (hillslope, terrace, etc					Slone (%): 3	
Subregion (LRR or MLRA): LI			Long: <u>-80</u>		Datum: NAD 83	
Soil Map Unit Name: Philo si		Lat	Long			
			•		cation: _=	
Are climatic / hydrologic conditi	•				·	
Are Vegetation, Soil	, or Hydrolog	gy significantly o	disturbed? Are "Norma	al Circumstances" p	present? Yes No	
Are Vegetation, Soil	, or Hydrolog	gy naturally prob	blematic? (If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDING	GS – Attach s	site map showing	sampling point location	ons, transects	s, important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	✓ No				
Hydric Soil Present?	Yes		Is the Sampled Area	🗸		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No	
Remarks:						
Cowardin Code: PEM						
HGM: Riverine						
WT: RPWWD						
HYDROLOGY						
Wetland Hydrology Indicato	ors:			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum	of one is required	l; check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Pla	ants (B14)	Sparsely Ve	getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfid	e Odor (C1)	Drainage Pa	tterns (B10)	
Saturation (A3)		Oxidized Rhizos	spheres on Living Roots (C3)	Moss Trim L	ines (B16)	
Water Marks (B1)		Presence of Rec	duced Iron (C4)	Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)		
Sediment Deposits (B2)			duction in Tilled Soils (C6)			
Drift Deposits (B3)		Thin Muck Surfa				
Algal Mat or Crust (B4)		Other (Explain in	n Remarks)		tressed Plants (D1)	
Iron Deposits (B5)	(53)				Position (D2)	
Inundation Visible on Aer				Shallow Aqu	, ,	
Water-Stained Leaves (B	·9)			· -	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:	Voc. No.	Depth (inches):				
Surface Water Present?		Depth (inches):				
Water Table Present?					-10 Y-1 V	
Saturation Present? (includes capillary fringe)	Yes _ • No	Depth (inches):	wetland	Hydrology Preser	nt? Yes / No	
Describe Recorded Data (stre	am gauge, moni	toring well, aerial photos	s, previous inspections), if ava	ailable:		
Remarks:						
Surface water was prese	ent in the wetl	and ditch portion of	f W-A10, but not in the	sample plot loc	ation.	
'		'	,			
Wetland consists of a lin	ear ditch/stre	am system that is d	dominated by hydrophyt	es and function	ns more as a wetland than	
		•			ent pasture. The sample plo	
_			•	•	grass and Carex sp. in the	
sample plot to be unider	•		attio grazing in the pac	iaro rocantoa iri	grade and darek oprim and	
campio piot to be unider	illiable to the	oposico iovoi.				

	Sampli	ina	Point:	W	'-A1	0a
--	--------	-----	--------	---	------	----

30'	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species	
1	-			That Are OBL, FACW, or FAC:1 (A)	
2				Total Number of Dominant	
3	-	-		Species Across All Strata: 2 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:50 (A/B))
6				Bassalan as Indansoralist at	
7				Prevalence Index worksheet:	
	0	= 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 species45	
1				FAC species x 3 =	
2				FACU species 30 x 4 = 120	
3				UPL species x 5 =	
4				Column Totals:75 (A)210 (B)	
5				Prevalence Index = R/A = 2.8	
6				Trevalence index = B/Tt =	
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
9.				2 - Dominance Test is >50%	
<u>. </u>	0	= Total Cov		✓ 3 - Prevalence Index is ≤3.0 ¹	
50% of total cover:0		total cover:		4 - Morphological Adaptations ¹ (Provide supporting	g
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)	
1. Cyperus odoratus	40	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2. Trifolium pratense	30	~	FACU		
3. Scirpus cyperinus	5	-	FACW	¹ Indicators of hydric soil and wetland hydrology must	
4 Carex sp	20		ND	be present, unless disturbed or problematic.	
Ti			110	Definitions of Four Vegetation Strata:	
5		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	r
6				more in diameter at breast height (DBH), regardless of	f
1				height.	
8	-			Sapling/Shrub – Woody plants, excluding vines, less	
9				than 3 in. DBH and greater than or equal to 3.28 ft (1	
10				m) tall.	
11				Herb - All herbaceous (non-woody) plants, regardless	;
47.1		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 47.5	20% of	total cover:	19	Woody vine – All woody vines greater than 3.28 ft in	
Woody Vine Stratum (Plot size: 30')				height.	
1					
2					
3					
4		<u></u>		Hydrophytic	
5.				Hydrophytic Vegetation	
	0	= Total Cov	er	Present? Yes No	
50% of total cover:0		total cover:	_		

Remarks: (Include photo numbers here or on a separate sheet.)

Carex sp. (20%) and grass sp. (5%) were observed in the herbaceous stratum but were not identified to the species level; therefore, they were not included in the percent cover calculations.

Although the vegetation does not meet the dominance test, based on landscape context, positive hydrology and soils indicators, and the likelihood that the unidentified Carex sp. is a hydrophytic species, it is assumed that the plot meets the wetland vegetation parameter. Additionally, the plot does meet the prevalence index test.

Sampling Point: W-A10a

Depth	Matrix	0/		x Features		Loc ²	Touters		Dan	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹		Texture SiL		Remarks	<u>i</u>
0-6	7.5YR 4/3	90	7.5YR 4/6	10	С	<u>M</u>				
6-16"	10YR 4/2	90	10YR 3/6	10	С	<u>M</u>	SiCL			
		. 								
		· ——								
	ncentration, D=Dep	letion RM-	-Reduced Matrix M	 S=Masked	Sand G	ains	² Location: P	L=Pore Lin	ing M–Matrix	·
ydric Soil II		iction, rawi-	-reduced Matrix, W	0-Masked	Oana Oi	airio.				·· łydric Soils³
_ Histosol (Dark Surface	(S7)					A10) (MLRA	-
	ipedon (A2)		Polyvalue Be	, ,	ce (S8) (I	/II RΔ 147.			Redox (A16	
_ Black His			Thin Dark Su				,	(MLRA 14		• •
	n Sulfide (A4)		Loamy Gleye			· · · , · · · · ,	P	•	oodplain Soil	s (F19)
	Layers (A5)		Depleted Ma		,			(MLRA 13		- (-)
	ck (A10) (LRR N)		Redox Dark	. ,	6)		V		v Dark Surfac	ce (TF12)
	Below Dark Surface	e (A11)	Depleted Da	•	,			•	in in Remark	, ,
	rk Surface (A12)	, ,	Redox Depre					` '		•
	ucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,				
	147, 148)		MLRA 13		, ,					
	leyed Matrix (S4)		Umbric Surfa	ace (F13) (MLRA 1	36, 122)	³ Ind	icators of h	ydrophytic ve	egetation and
			Piedmont Flo						logy must be	-
Sandy Re	edox (S5)							-		
_ Sandy Re _ Stripped	edox (S5) Matrix (S6)		Red Parent I	Material (F	21) (MLF	A 127, 147	') un	less disturb	ed of proble	
_ Stripped	Matrix (S6)			Material (F	21) (MLF	A 127, 147	') un	less disturb	ed of problet	
_ Stripped				Material (F	21) (MLF	A 127, 147	') un	less disturb	· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L	Matrix (S6) ayer (if observed):			Material (F	21) (MLF	A 127, 147	Hydric Soil		Yes	No
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F:	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F:	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F:	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F:	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F:	21) (MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	(MLF	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
_ Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type:	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped Restrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped estrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	
Stripped cestrictive L Type: Depth (inc	Matrix (S6) ayer (if observed):			Material (F.	21) (ML F	A 127, 147			· · · · · · · · · · · · · · · · · · ·	



Photograph Direction SW

Comments:		

Project/Site: Mountain Val	ley Pipeline	City/C	ounty: Harrison		Sampling Date: 10/22/2014
Applicant/Owner: MVP					Sampling Point: W-A10-UP
Investigator(s): ES, DM, M	W	Section			
Landform (hillslope, terrace, e					Slone (%): 3
Subregion (LRR or MLRA): L			•		Datum: NAD 83
		Lat. doi:docodoco	=		
Soil Map Unit Name: Philo s				NWI classific	
Are climatic / hydrologic condi					_
Are Vegetation, Soil _	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes V No No
Are Vegetation, Soil _	, or Hydrology	naturally problema	atic? (If needed, e	xplain any answe	ers in Remarks.)
SUMMARY OF FINDIN	IGS – Attach sit	e map showing sam	pling point locatio	ns, transects	s, important features, etc.
Hydrophytic Vegetation Pres	sent? Yes	No_ V			
Hydric Soil Present?		No 🗸	Is the Sampled Area	V	No
Wetland Hydrology Present?		No	within a Wetland?	res	NO
Remarks:					
Upland plot W-A10-UP	Tio located * To	location and would in	occw Allo Wi 1.		
HYDROLOGY					
Wetland Hydrology Indicat	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Recent Iron Reductio Thin Muck Surface (C		Crayfish Bur	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)		Outer (Explain in Nei	nano)		Position (D2)
Inundation Visible on Ae	erial Imagery (B7)			Shallow Aqu	
Water-Stained Leaves (aphic Relief (D4)
Aquatic Fauna (B13)	,			FAC-Neutral	. , ,
Field Observations:					
Surface Water Present?	Yes No _	✓ Depth (inches):			
Water Table Present?	Yes No _	Depth (inches):			
Saturation Present?	Yes No _	✓ Depth (inches):	Wetland H	ydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (str	ream gauge monitor	ing well, aerial photos, pre	vious inspections) if avai	lable.	
Docoribo Mocordou Bala (oli	oam gaago, monto	ing won, donar priotos, pro	vious inspections), ii uvui	ilabio.	
Remarks:					

Sampling Point: W-A10-UP	Sampling	Point:	W-A	10-UP
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30'	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species That Are OBL_FACW_or_FAC: 0 (A)
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	_	OBL species x 1 =
	20% 01	total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				(2)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	_			3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		= Total Cover total cover:	r 0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	20 /6 01	total cover		data in Remarks or on a separate sheet)
1. Trifolium pratense	30	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Digitaria ischaemum	20		UPL	
3. Taraxicum officinale	20	<u> </u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				
	70	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover:		
Woody Vine Stratum (Plot size: 30')		_		Woody vine – All woody vines greater than 3.28 ft in height.
1				neight.
2.				
3.				
4				
5.				Hydrophytic Vegetation
	_	= Total Cove		Present? Yes No
50% of total cover:0		total cover:_	_	
Remarks: (Include photo numbers here or on a separate s				
Poa sp. (30%) was observed in the herbaceous included in the percent cover calculations.	•	but was no	t identif	fied to the species level; therefore, it was not
moraded in the percent cover calculations.				
See photo W-A10-P1.				
·				

Sampling Point: W-A10-UP

Depth	Matrix	%		x Features	Type ¹	Loc²	Touture		Domori	l.o	
(inches)	Color (moist)		Color (moist)	<u></u> %	туре	LOC	Texture silt loam		Remarl	KS	
0-16	10YR 3/3	100									
16-20	10YR 4/4	95	10YR 4/6	5	С	M	silt loam				
	-	-					-	-			
		-									
							-	-			
ype: C=Cc	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked S	Sand Gra	ins.	² Location: F	L=Pore Lini	ing, M=Mat	rix.	
dric Soil I	ndicators:						Indic	ators for P	roblematic	Hydric So	oils³:
_ Histosol			Dark Surface	, ,				cm Muck (
	ipedon (A2)		Polyvalue Be				148) (Coast Prairie		16)	
_ Black His			Thin Dark Su			47, 148)	_	(MLRA 14		(540)	
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Ma		<u>2)</u>		'	Piedmont Flo MLRA 13)		DIIS (F19)	
	ck (A10) (LRR N)		Redox Dark		١		\	ery Shallov		ace (TF12)
	Below Dark Surfac	e (A11)	Depleted Dai	, ,				Other (Expla			,
_ Thick Da	rk Surface (A12)		Redox Depre	ssions (F8)							
	lucky Mineral (S1) (I	LRR N,	Iron-Mangan		(F12) (I	_RR N,					
	147, 148)		MLRA 13	-			3,				
-	leyed Matrix (S4) edox (S5)		Umbric Surfa Piedmont Flo					licators of hetland hydro		-	
-	Matrix (S6)		Red Parent N					eliano nyoro iless disturb			,
		<u> </u>	Red r archi h	natorial (1 2 i	i) (IVILIX	~ 121, 1 7 1		iicoo diotarb	ca or probi	Ciriatic.	
estrictive L	.aver (it observed):										
	_ayer (if observed):										
Туре:							Hydric Soi	Present?	Yes	No	/
Type:							Hydric Soi	l Present?	Yes	No _	~
Type:			<u> </u>				Hydric Soi	Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	l Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	l Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	I Present?	Yes	No _	✓
Type:							Hydric Soi	I Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	Present?	Yes	No _	✓
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	I Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Туре:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type:							Hydric Soi	I Present?	Yes	No _	<u> </u>
Type:							Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Depth (inc							Hydric Soi	I Present?	Yes	No _	<u>v</u>

Project/Site: MVP	City/County: Harrison	Sampling Date: 10/23/14
Applicant/Owner: MVP		State: WV Sampling Point: W-B4a
Investigator(s): SR CM KL	Section, Township, Range: N	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, no	one): Concave Slope (%): 1
Subregion (LRR or MLRA): LRRN	Lat: 39.316837 Long: -80	0.526047 Datum: NAD 83
Soil Map Unit Name: Udifluvents and F	Tuvaquents	NWI classification: N/A
•	oical for this time of year? Yes No	
	y significantly disturbed?	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach si		explain any answers in Remarks.) ons, transects, important features, etc.
		, , , ,
Hydrophytic Vegetation Present? Yes	Is the Sampled Area	,
_	No within a Wetland?	Yes No
Domorko		
Information listed on this form represents the	HGM: Riverine Water Type: ne data collected in 2015. The wetland was re 019 surveys were limited to the LOD. Due to lement methods; however, the presence of we ion LOD.	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)
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)	Oxidized Rhizospheres on Living Roots (C3)	• , ,
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		✓ Geomorphic Position (D2)
		Shallow Aquitard (D3)
Water-Stained Leaves (B9)Aquatic Fauna (B13)		Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)
Field Observations:		- TAC-Neutral Test (D3)
	Depth (inches):	
	Depth (inches):	
		Hydrology Present? Yes <u>✓</u> No
(includes capillary fringe)	Deptif (inches) wetland	nydrology Present? Tes No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections), if av	ailable:
Remarks:		
İ		

Sampling Point: W-B4a

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	(A)
2					` ,
				Total Number of Dominant Species Across All Strata: 2	(D)
3	-	-		Species Across All Strata:	(B)
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100%	(A/B)
6				Prevalence Index worksheet:	
7					
	0	= 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 =	_
1				FAC species x 3 =	_
	-			FACU species x 4 =	
2				UPL species x 5 =	
3					
4				Column Totals: (A)	_ (D)
5				Prevalence Index = B/A =	
6					
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
0		= Total Cov		4 - Morphological Adaptations ¹ (Provide sup	porting
50% of total cover: 0	20% of	total cover:	0	data in Remarks or on a separate sheet)	
Herb Stratum (Plot Size)	40		E4 0)4/	Problematic Hydrophytic Vegetation ¹ (Expla	
1. Phalaris arundinacea	40		FACW	Floblematic Hydrophytic Vegetation (Expla	111)
2. Carex Iurida	25	✓	OBL		
3. Trifolium pratense	15	·	FACU	¹Indicators of hydric soil and wetland hydrology	nust
4 Polygonum sagittatum	10		OBL	be present, unless disturbed or problematic.	
5. Juncus effusus	10		FACW	Definitions of Four Vegetation Strata:	
6. Bidens sp.	5		ND	Tree – Woody plants, excluding vines, 3 in. (7.6	cm) or
6. <u>Bidens sp.</u>				more in diameter at breast height (DBH), regard	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines	locc
9				than 3 in. DBH and greater than or equal to 3.28	
10.				m) tall.	(.
11					
- 111.	105	Tatal Cau		Herb – All herbaceous (non-woody) plants, regative of size, and woody plants less than 3.28 ft tall.	rdless
50% of total cover:52.5		= Total Cov total cover:		of size, and woody plants less than 3.20 it tall.	
50% of total cover. <u>62.5</u>	20% 01	total cover.		Woody vine – All woody vines greater than 3.28	3 ft in
Woody Vine Stratum (Plot size: 15')				height.	
1					
2					
3					
4.					
5.				Hydrophytic Vegetation	
	0	= Total Cov		Present? Yes _ V No	
50% of total cover: 0		total cover:	_		
		total cover.			
Remarks: (Include photo numbers here or on a separate si	neet.)				

Sampling Point: W-B4a

SOIL

Profile Desc	ription: (Describe to	o the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	c Features	3			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-14	10YR 4/2	85	7.5.YR 4/6	15	С	M	SIL	
14-20	10YR 4/1	97	7.5.YR 4/6	3	С	M	SIL	
					-			
			_					
			_					
					-			
	-					·	-	
¹ Type: C=Co	oncentration, D=Deple	etion. RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		540H, 14W-1	toddood matrix, me		Carra Cr	uo.		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel		ce (S8) (N	ILRA 147,		oast Prairie Redox (A16)
Black Hi			Thin Dark Su					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			, ,	Pi	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		ŕ		· 	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		6)		V	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		0	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L l	RR N,	Iron-Mangane		es (F12) (LRR N,		
	\ 147, 148)		MLRA 136	•			2	
	Gleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	7) unl	ess disturbed or problematic.
	_ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-B4a Cowardin Code PEM



Photograph Direction East

Date: 10/23/14

Comments: 2015 wetland delineation.



Photograph Direction WSW

Date: 10/02/2019

Comments: 2019 wetland delineation confirmation.

Application
Section, Township, Range: NA Section, Township, Range: NA Section, Township, Range: NA Subregion (LRR or MLRA): LRRN Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): LRRN Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): LRRN Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): LARN Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): LARN Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Subregion (LRR or MLRA): Lat: 39.316848 Long: 80.526199 Datum: NAD 83 Long: 80.526199 Datum: NAD 84 Long: 80.526199
Local relief (concave, corvex, none); Convex Slope (%); 1
Subregion (LRR or MLRA): LRRN
Soil Map Unit Name: Udifluvents and Fluvaquents
Are climatic / hydrologic conditions on the site typical for this time of year? Yes
Are "Normal Circumstances" present? Yes No naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wetland Hydrology Indicators: Remarks: Cowardin Code: UPLAND HGM: Water Type: Wetland Hydrology Indicators: Firmary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfice Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B3) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Water Staturation Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Well and Hydrology Present? Yes No Well and Hydrology Present? Yes No Well and Hydrology Indicators: Remarks: Cowardin Code: UPLAND HGM: Water Type: Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) 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) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Sturtator (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquatic Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Alexandrian By Aguater Sturation Hydrology Present? Yes No Depth (inches): Water Type: Is the Sampled Area within a Wetland? Yes No Depth (inches): Water Type: Is the Sampled Area within a Wetland? Yes No Depth (inches): Wetland Hydrology Present? Yes No Present P
Summary OF Findings - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Water Type: No Water Type: No
Hydric Soil Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Indudation Visible on Aerial Imagery (B7) Water Staired Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Water Mayology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Water Mayology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Presence of Reductions in Special Present? Yes No Present (Inches): Wetland Hydrology Present? Yes No Present (Inches): Wet
Hydric Soil Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Indudation Visible on Aerial Imagery (B7) Water Staired Leaves (B9) Aquatic Faune (B13) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Water May Water Table (R2) Wetland Hydrology Present? Yes No Depth (inches):
Wetland Hydrology Present? Yes No Water Type: No Water Type: No Water Type: No Water Type: No Water Type: No Water Type: No Water Type: No Water Type: No Water Type: No Water Marks (B6) No Water Marks (B7) No Water Mark
AYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Moss Trim Lines (B16) Moss Trim Lines (B16) Moss Trim Lines (B16) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Moss Trim Lines (C7) Saturation (V5) Saturat
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
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Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) 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) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) Pack-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (
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Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Surface Water Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Surface Water (A1)
Surface Water (A1)
High Water Table (A2)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Dryft Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Shallow Aquitard (D3) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-Neutral Test (D5) Shallow Aquitard (D3) Wicrotopographic Relief (D4) Shallow Aquitard (D3) Shallow Aquitard (D3
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) Microtopographic Relief (D4) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Geomorphic Relief (D4) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Personal Present? Yes No
Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) FAC-Neutral Test (D5) Factore Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No ✓ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Objective Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Operation
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

Sampling Point: W-B4a-UP

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species That Are ORL FACW or FAC: (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		
50% of total cover:0	20% of	f 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				Column rotals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	_	T		3 - Prevalence Index is ≤3.0 ¹
500/ - (1-1-1-)		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% 01	total cover	0	data in Remarks or on a separate sheet)
Terb Stratum (Flot Size)	20		EACH.	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Trifolium pratense	30		FACU	1 Toblematic Trydrophytic Vegetation (Explain)
2. Poa pratensis	25		FACU	1
3. Plantago lanceolata	15		UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Plantago major	10		FACU	
5 Achillea millefolium	10		FACU	Definitions of Four Vegetation Strata:
6. Daucus carota	10	-	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	5		ND	more in diameter at breast height (DBH), regardless of
7. Setaria sp.			ואט	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	105	Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.		= Total Cov f total cover:		or size, and woody plants less than 3.20 it tall.
4 F1	20% 0	i total cover.		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0	T-1-1-0		Vegetation Present? Yes No _ ✓
500/ - (1-1-1-)		= Total Cov	_	
50% of total cover:0		f total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-B4a-UP

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the ir	ndicator o	or confirm	the absen	nce of indicato	ors.)	
Depth	Matrix		Redo	x Features	1		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remarks	
0-5	7.5YR 4/3	100%					SIL			
5+									Gravel	fill
										_
		·								
		· 								
¹ Type: C=Ce	oncentration, D=Dep	letion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ins.		: PL=Pore Lini		
Hydric Soil	Indicators:						Inc	dicators for Pr	oblematic H	lydric Soils³:
Histosol	(A1)		Dark Surface	(S7)				_ 2 cm Muck (/	A10) (MLRA	147)
Histic Ep	oipedon (A2)		Polyvalue Be				148)	Coast Prairie	Redox (A16)
Black Hi			Thin Dark Su	, ,	•	47, 148)		(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		-2)			_ Piedmont Flo		s (F19)
	Layers (A5)		Depleted Mar		2)			(MLRA 13		- (TE40)
	ick (A10) (LRR N) d Below Dark Surface	o (A11)	Redox Dark S Depleted Dar					Very ShallowOther (Expla		, ,
	ark Surface (A12)	5 (ATT)	Redox Depre					_ Other (Expla	III III IXCIIIAIK	5)
	lucky Mineral (S1) (L	.RR N.	Iron-Mangan			.RR N.				
	A 147, 148)	,	MLRA 13		- () (,				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	3	Indicators of h	ydrophytic ve	getation and
Sandy R	ledox (S5)		Piedmont Flo	odplain Sc	oils (F19)	MLRA 14	8)	wetland hydro	logy must be	present,
	Matrix (S6)		Red Parent N	1aterial (F2	21) (MLR	127, 147	')	unless disturb	ed or probler	natic.
	_ayer (if observed):									
Type: Fil			_							_
Depth (in	ches): <u>5</u>		_				Hydric S	Soil Present?	Yes	_ No
Remarks:							•			

Project/Site: MVP	City/C	_{ounty:} Harrison		Sampling Date: 05/30/2015						
Applicant/Owner: MVP			Sampling Point: W-F54							
Investigator(s): Ed Strohmaier, Dawn McCullou	igh Section									
Landform (hillslope, terrace, etc.): hilltop	Local reli	ef (concave, convex, none)	: convex	Slope (%): 0-1						
Subregion (LRR or MLRA): LRRN Lat:				Datum: NAD 83						
Soil Map Unit Name: Gilpin-Upshur complex, 25 to										
Are climatic / hydrologic conditions on the site typical fo	r this time of year? Y	es No (If	no, explain in Re	marks.)						
Are Vegetation, Soil, or Hydrology	significantly disturb	ped? Are "Normal C	ircumstances" pro	esent? Yes No						
Are Vegetation, Soil, or Hydrology			lain any answers							
SUMMARY OF FINDINGS – Attach site m			•							
Hydrophytic Vegetation Present? Yes	_ No									
Hydric Soil Present? Yes		Is the Sampled Area	V V	No						
Wetland Hydrology Present? Yes		within a Wetland?	res	_ NO						
Remarks: Cowardin Code : PEM HGM: Slope WT: NRPWW										
Information listed on this form represents the data collected in 2015. The wetland was revisited on 09/18/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.										
HYDROLOGY										
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicato	ors (minimum of two required)						
Primary Indicators (minimum of one is required; check	all that apply)		Surface Soil Cracks (B6)							
· ,	True Aquatic Plants (E		_ Sparsely Vege	etated Concave Surface (B8)						
	Hydrogen Sulfide Odd		_ Drainage Patte	, ,						
		es on Living Roots (C3)	_ Moss Trim Lin							
\ <u> </u>	Presence of Reduced	` '	-	/ater Table (C2)						
	Recent Iron Reduction		_ Crayfish Burro							
	Thin Muck Surface (C			ible on Aerial Imagery (C9)						
	Other (Explain in Rem	narks)		essed Plants (D1)						
Iron Deposits (B5)		_	_ Geomorphic P	` '						
☐ Inundation Visible on Aerial Imagery (B7) ✓ Water-Stained Leaves (B9)		_	Shallow Aquitard (D3) Microtopographic Relief (D4)							
Aquatic Fauna (B13)		_	Microtopograp FAC-Neutral T							
Field Observations:			_ TAO Neutrai T							
Surface Water Present? Yes No	Donth (inches)									
	Depth (inches).									
			duala es a Duana está	0 Van V Na						
Saturation Present? Yes No	Depth (inches):	wetland Hyd	arology Present	? Yes <u>/</u> No						
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, prev	vious inspections), if availa	ble:							
Remarks:										
Shared upland plot W-F53-UP.										

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

Sampling Point: W-F54

201	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	(A))
2				T. 111 1 15 15 1		
3				Total Number of Dominant Species Across All Strata:	3 (B)	
		-		Species Acioss Air Strata.	(b)	,
4				Percent of Dominant Species	100	
5				That Are OBL, FACW, or FAC:	100 (A/I	Έ)
6				Prevalence Index worksheet:		
7					14. 1 1	
	0	= Total Co	ver	Total % Cover of: Mu		
50% of total cover: 0	20% of	total cover	r: <u> </u>	OBL species x 1 = _		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 = _		
1				FAC species x 3 =		
				FACU species x 4 =		
2				UPL species x 5 =		
3				Column Totals: (A)		۱د
4				Column Totals (A)	(D	رد
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicators:		
7						
8				1 - Rapid Test for Hydrophytic Ve	getation	
9				2 - Dominance Test is >50%		
<u> </u>	_	= Total Co		3 - Prevalence Index is ≤3.0 ¹		
50% of total cover: 0				4 - Morphological Adaptations ¹ (P	rovide supporti	ing
F!	2070 01	total cove		data in Remarks or on a separ	rate sheet)	
Herb Stratum (Plot size: 5 1. Microstegium vimineum	30	~	FAC	Problematic Hydrophytic Vegetati	ion ¹ (Explain)	
	20					
2. Carex lurida			OBL	¹ Indicators of hydric soil and wetland I	hvdrology must	i
3. Arthraxon hispidis	25		F <u>AC</u>	be present, unless disturbed or proble		
4. Juncus tenuis	5		FACW_	Definitions of Four Vegetation Strat		
5		-				
6				Tree – Woody plants, excluding vines	i, 3 in. (7.6 cm)	or
7				more in diameter at breast height (DB height.	,н), regardiess (OT
8				noight.		
				Sapling/Shrub – Woody plants, exclu		
		-		than 3 in. DBH and greater than or eq m) tall.	ual to 3.28 ft (1	i
10				m) tan.		
11				Herb – All herbaceous (non-woody) p		SS
40		= Total Co		of size, and woody plants less than 3.	28 ft tall.	
50% of total cover: <u>40</u>	20% of	total cove	r: <u>10</u>	Woody vine – All woody vines greate	er than 3.28 ft in	1
Woody Vine Stratum (Plot size: 15')				height.		
1						
2						
3						
4						
5				Hydrophytic Vegetation		
	0	= Total Co			·	
50% of total cover: 0		total cove	_			
Remarks: (Include photo numbers here or on a separate s		10101 00101	·			
·	oneet.)					
20% bare ground.						

Sampling Point: W-F54

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the	indicator	or confirr	n the absence of in	dicators.)					
Depth	Matrix		Redo	x Feature	s								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks					
0-6	7.5 YR 4/2	80	10 YR 4/4	20	С	M	SiCL						
7-12	7.5 YR 4/2	70	5 YR 4/4	15	С	M	SiCL	_					
			5 YR 5/6	15	С	М	SiCL						
13-16	10 YR 4/3	95	10 YR 5/6	5	С	М	SiL						
				-									
						- ——							
				-	-								
				-	-	- (
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		re Lining, M=Matrix.					
Hydric Soil I	ndicators:						Indicators	for Problematic Hydric Soils ³ :					
Histosol	(A1)		Dark Surface					luck (A10) (MLRA 147)					
	pipedon (A2)		Polyvalue Be		. , .		, 148) Coast I	Prairie Redox (A16)					
Black His			Thin Dark Su			147, 148)		RA 147, 148)					
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19)					
	Layers (A5)		Depleted Ma				•	RA 136, 147)					
	ick (A10) (LRR N)	(044)	Redox Dark	•	,			hallow Dark Surface (TF12)					
	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Dar Redox Depre				Other (Explain in Remarks)					
	lucky Mineral (S1) (L	RR N				I RR N							
	147, 148)	ixix i x ,	_	Iron-Manganese Masses (F12) (LRR N, MLRA 136)									
	ileyed Matrix (S4)		Umbric Surfa	•	(MLRA 1	36. 122)	³ Indicator	s of hydrophytic vegetation and					
	edox (S5)		Piedmont Flo					hydrology must be present,					
	Matrix (S6)		Red Parent N					listurbed or problematic.					
	ayer (if observed):							-					
Type:													
Depth (inc	ches):						Hydric Soil Pres	ent? Yes 🗸 No					
Remarks:													

Wetland Photograph Page

Wetland ID W-F54 Cowardin Code PEM



Photograph Direction WSW

Date: 05/30/2015

Comments: 2015 wetland delineation.



Photograph Direction ENE

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	_{ounty:} Harrison		Sampling Date: 05/30/2015			
Applicant/Owner: MVP		Sampling Point: W-F53						
Investigator(s): Ed Strohmai	er, Dawn McCullou			<u> </u>				
Landform (hillslope, terrace, etc					Slope (%): 0-1			
Subregion (LRR or MLRA): LF					Datum: NAD 83			
Soil Map Unit Name: Gilpin-Up			-					
Are climatic / hydrologic condition	ons on the site typical for	r this time of year? Ye	es 🗸 No	(If no, explain in Re	emarks.)			
·					resent? Yes No			
Are Vegetation, Soil				explain any answe				
-					, important features, etc.			
					, ,			
Hydrophytic Vegetation Prese			Is the Sampled Area					
Hydric Soil Present? Wetland Hydrology Present?	Yes	No No	within a Wetland?	Yes	No			
Remarks:	res_ 							
Cowardin Code : PEM F	IGM: Slope WT: NI	RPWW						
Information listed on this presence of wetland hyd was obstructed by timber	rology, hydrophytic	e data collected ir vegetation, and h	n 2015. The wetland hydric soils was una	d was revisited ble to be confii	on 09/18/2019. The med because the wetland			
HYDROLOGY								
Wetland Hydrology Indicato	rs:				tors (minimum of two required)			
Primary Indicators (minimum o	of one is required; check	all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		True Aquatic Plants (F	•	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pat	` ,			
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)		Presence of Reduced			Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	` ,			
Drift Deposits (B3)		Thin Muck Surface (C Other (Explain in Rem			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	 '	Other (Explain in Ren	iaiks)		ressed Plants (D1)			
Inundation Visible on Aeri	al Imagery (R7)			Geomorphic Position (D2)				
Water-Stained Leaves (B)	• • • •			Shallow Aquitard (D3)Microtopographic Relief (D4)				
Aquatic Fauna (B13)	-,			FAC-Neutral				
Field Observations:								
Surface Water Present?	Yes No	Depth (inches):						
Water Table Present?	Yes No							
Saturation Present?	Yes No		4 Wetland H	lydrology Presen	t? Yes ✔ No			
(includes capillary fringe)					11. 103			
Describe Recorded Data (stre	am gauge, monitoring w	rell, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
Saturation is present with	nin upper 4 inches o	of soil profile from	recent heavy precip	pitation.				
'		·	, , ,	•				

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

30'

Sapling/Shrub Stratum (Plot size: 15')

3. Microstigium vimineum

Woody Vine Stratum (Plot size: ____15' ____)

Tree Stratum (Plot size: __

Herb Stratum (Plot size: 5'

4. Carex vulpinoidea

1. Carex lurida

2. Juncus effucus

____)

% Cover Species? Status

0 = Total Cover

0 = Total Cover

✓ OBL

✓ F<u>AC</u>

___ FACW

15 <u>OBL</u>

100__ = Total Cover

0 = Total Cover

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

50% of total cover: ______ 20% of total cover:____ 20

50% of total cover: 0 20% of total cover: 0

55

	Sampling Po	oint:	W-F53						
Ī	Dominance Test worksheet:								
	Number of Dominant Species 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)					
F	Prevalence Index worksheet:								
	Total % Cover of:	М	ultiply by:						
	OBL species								
	FACW species								
	UPL species								
	Column Totals: (A)		(B)					
	Prevalence Index = B/A =	=							
H	Hydrophytic Vegetation Indic			_					
	1 - Rapid Test for Hydroph								
		•	egetation						
	2 - Dominance Test is >50								
	3 - Prevalence Index is ≤3.								
	4 - Morphological Adaptations¹ (Provide supporting								
1									
	data in Remarks or on a	a sepa	arate sheet)						
	data in Remarks or on a Problematic Hydrophytic V	a sepa	arate sheet)						
		a sepa egeta	arate sheet) ition ¹ (Expla	in)					
	Problematic Hydrophytic V Indicators of hydric soil and we	egeta etland probl	arate sheet) tion¹ (Expla hydrology i	in)					
	Problematic Hydrophytic V Indicators of hydric soil and we be present, unless disturbed or	egeta egeta etland probl n Stra	hydrology of lematic. s, 3 in. (7.6	in) must cm) or					
	Problematic Hydrophytic V Indicators of hydric soil and we be present, unless disturbed or Pefinitions of Four Vegetatio Tree – Woody plants, excluding more in diameter at breast height	etland problem Strage vine that (Diese, exc	hydrology rematic. ata: s, 3 in. (7.6 BH), regard	cm) or less of					
	Problematic Hydrophytic V Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetatio Tree – Woody plants, excluding more in diameter at breast heigheight. Sapling/Shrub – Woody plants than 3 in. DBH and greater than	estland problem Strage vine that (Disas, except or e	hydrology rematic. ata: s, 3 in. (7.6 BH), regard luding vines qual to 3.28 plants, rega	cm) or less of					
	Problematic Hydrophytic V Indicators of hydric soil and we be present, unless disturbed or Pefinitions of Four Vegetatio Tree – Woody plants, excluding more in diameter at breast heigheight. Sapling/Shrub – Woody plants than 3 in. DBH and greater that m) tall. Herb – All herbaceous (non-woods)	a separate s	hydrology of lematic. ata: s, 3 in. (7.6 BH), regard luding vines qual to 3.28 plants, rega	cm) or less of s, less s ft (1					

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: W-F53

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirn	the abse	ence of indicators.)				
Depth	Matrix		Redo	x Feature	S							
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Textu</u>	_				
0-4	7.5 YR 4/2	90	10 YR 3/6	10	С	M	SiCl	<u> </u>				
5-12	7.5 YR 4/2	90	10 YR 3/6	5	С	M	SiCl	<u> </u>				
			10 GY 4/1	5			SiCl	<u>-</u>				
13-20	7.5 YR 4/2	100					SiL					
					-		-					
					-							
					r		-					
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Locatio	n: PL=Pore Lining, M=Matrix.				
Hydric Soil I							lı	ndicators for Problematic Hydric Soils ³ :				
Histosol			Dark Surface				_	2 cm Muck (A10) (MLRA 147)				
	ipedon (A2)		Polyvalue Be		. , .		148) _	Coast Prairie Redox (A16)				
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)				
	n Sulfide (A4)		Loamy Gleye Depleted Ma		F2)		_	Piedmont Floodplain Soils (F19)				
	Layers (A5) ck (A10) (LRR N)		Redox Dark S		. 6)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)				
	Below Dark Surface	(A11)	Depleted Dark	•			_	Other (Explain in Remarks)				
	rk Surface (A12)	, (,)	Redox Depre				_					
	ucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,						
	147, 148)	·	MLRA 136)									
	leyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	6, 122)		³ Indicators of hydrophytic vegetation and				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l8)	wetland hydrology must be present,				
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7)	unless disturbed or problematic.				
Restrictive L	.ayer (if observed):											
Туре:			<u></u>									
Depth (inc	ches):						Hydric	Soil Present? Yes 🔽 No				
Remarks:							· I					

Wetland ID W-F53 Cowardin Code PEM



Photograph Direction WSW

Date: 05/30/2015

Comments: 2015 wetland delineation.



Photograph Direction WSW

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP				City/	County: Harrisc	on		Sampling Date: 05/30/2015			
Applicant/Owner: MVP						Sampling Point: W-F53/F5					
Investigator(s): Ed Strohm	aier, Daw	n McCullo	ugh	Sect	tion. Township. Ra						
Landform (hillslope, terrace, e						_		Slope (%): 5			
Subregion (LRR or MLRA): L					Lo			Datum: NAD 83			
Soil Map Unit Name: Gilpin-						-					
Are climatic / hydrologic condi								·			
Are Vegetation, Soil _				-				present? Yes No			
				•							
Are Vegetation, Soil _								ers in Remarks.)			
SUMMARY OF FINDIN	iGS – Att	ach site n	nap sh	owing sai	mpling point	location	s, transects	s, important features, etc.			
Hydrophytic Vegetation Pres	rophytic Vegetation Present? Yes			✓	la tha Cammia	-l A					
Hydric Soil Present?		Yes		✓	Is the Sample within a Wetla		Yes	No 🗸			
Wetland Hydrology Present?	>	Yes		<u> </u>	Within a Wetta	iiid:	163				
Remarks: upland											
upianu											
HYDROLOGY											
Wetland Hydrology Indicat	ors:					S	Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum		equired; ched	ck all that	apply)		_	Surface Soil Cracks (B6)				
Surface Water (A1)				quatic Plants	(B14)			getated Concave Surface (B8)			
High Water Table (A2)				en Sulfide O			Drainage Patterns (B10)				
Saturation (A3)			-		res on Living Roo	ots (C3)	- ' '				
Water Marks (B1)				ce of Reduce	_	· · · _	Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Recent	Iron Reducti	on in Tilled Soils	(C6) _	Crayfish Bur	rows (C8)			
Drift Deposits (B3)			Thin Mu	uck Surface ((C7)	_	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)			Other (I	Explain in Re	emarks)	_	Stunted or S	tressed Plants (D1)			
Iron Deposits (B5)						Geomorphic Position (D2)					
Inundation Visible on Ae	rial Imagery	y (B7)				_	Shallow Aqu	itard (D3)			
Water-Stained Leaves (B9)					_		aphic Relief (D4)			
Aquatic Fauna (B13)						_	FAC-Neutra	Test (D5)			
Field Observations:		/									
Surface Water Present?		No									
Water Table Present?		No						.,			
Saturation Present? (includes capillary fringe)	Yes	No	_ Depth	(inches):	W	etland Hy	drology Presei	nt? Yes No			
Describe Recorded Data (str	ream gauge	, monitoring	well, aeri	al photos, pr	evious inspection	s), if availa	able:				
Remarks:											
Upland plot is located S	W of the	wetland w	hich lie	s adjacen	t to and across	s the exi	sting access	road.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Lirodendron tulipifera	70		<u>FACU</u>	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	15		FAC	T. 111 (5)
3				Total Number of Dominant Species Across All Strata: 4 (B)
4			·	
5				Percent of Dominant Species That Are OBL FACW, or FAC: 50 (A/B)
6.			· ——	That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
·· <u> </u>	85	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 42.5				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	2070 01	10101 00101		FACW species x 2 =
1. Elaegus umbellata	10	/	UPL	FAC species x 3 =
	-		<u> </u>	FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5		. <u></u>		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8	-			2 - Dominance Test is >50%
9				
	10	= Total Cov	/er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:5	20% of	total cover	: 2	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Packera aurea	15	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Microstegium viminium	20		FAC	
3	-		1710	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6	-	· <u></u>		more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10			·	m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov	_	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>17.5</u>	20% of	total cover	:7	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2	-			
3				
4				Harbardarda
5.				Hydrophytic Vegetation
	0	= Total Cov	/er	Present? Yes No V
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate si				
Bare ground 15%	,			

Sampling Point: W-F53/F54-UP

SOIL

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redo	x Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S	
0-12	5YR 4/3	75	2.5 YR 4/6	25			SiCL	-			
13-16	10 YR 4/2	90	5 YR 4/6	5			SiL				
			10 YR 6/4	5			SiL				
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: P				•
Hydric Soil	Indicators:									Hydric Soils	³:
Histosol			Dark Surface					cm Muck (A			
	pipedon (A2)		Polyvalue Be				148) C	oast Prairie		6)	
	stic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 14		:I- (F40)	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		F2)		P	iedmont Flo (MLRA 13		iis (F19)	
	ick (A10) (LRR N)		Redox Dark	. ,	·6)		V	ery Shallow		ice (TF12)	
	d Below Dark Surface	e (A11)	Depleted Da					ther (Explai			
	ark Surface (A12)	, ,	Redox Depre							,	
	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	_RR N,					
	A 147, 148)		MLRA 13	-			2				
	Gleyed Matrix (S4)		Umbric Surfa							egetation and	d
	Redox (S5)		Piedmont Flo					tland hydrol			
	Matrix (S6) Layer (if observed):		Red Parent N	viateriai (F	21) (WLR	4 127, 147) un	less disturbe	ea or proble	ematic.	
	Layer (ii observeu).										
Type:	-h).						Ukadala Call	D=====40	V	No 🗸	,
	ches):						Hydric Soil	Present?	Yes	NO	_
Remarks:											

Project/Site: MVP		City/C	_{ounty:} Harrison		Sampling Date: 05/30/2015
Applicant/Owner: MVP					Sampling Point: W-F55
Investigator(s): Ed Strohmai	er, Dawn McCullou				
Landform (hillslope, terrace, etc					Slope (%): 0-1
Subregion (LRR or MLRA): LR					Datum: NAD 83
Soil Map Unit Name: Gilpin-Up			_		
Are climatic / hydrologic condition			_		
, ,	* *	•		•	resent? Yes No
Are Vegetation, Soil					
_				explain any answei	, important features, etc.
			pinig point locatio	ino, transcoto	, important reatures, etc.
Hydrophytic Vegetation Preser			Is the Sampled Area		
Hydric Soil Present?	Yes	_ No	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes				
Remarks: Cowardin Code : PEM H	IGM: Slope WT: N	RPWW			
was obstructed by timber	rology, hydrophytic	e data collected ir vegetation, and h	n 2015. The wetland hydric soils was una	d was revisited ble to be confii	on 09/18/2019. The med because the wetland
HYDROLOGY					
Wetland Hydrology Indicator					tors (minimum of two required)
Primary Indicators (minimum c	-			Surface Soil	
Surface Water (A1)		True Aquatic Plants (•		etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pat	, ,
Saturation (A3)		Oxidized Rhizosphere Presence of Reduced	es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	Nater Table (C2)
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rem			ressed Plants (D1)
Iron Deposits (B5)		(=		Geomorphic	` ,
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (BS					phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes No	Depth (inches):			
Saturation Present?	Yes No	Depth (inches):	3 Wetland H	lydrology Presen	t? Yes <u> </u>
(includes capillary fringe) Describe Recorded Data (stream)	am gauge, monitoring w	voll porial photos prov	vious inspections) if ava	ilable:	
Describe Recorded Data (silea	an gauge, monitoring w	eli, aeriai priotos, pre	vious irispections), ii ava	ilable.	
Remarks:					
Wetland is located on the	existing access ro	ad surface. Satur	ated in the upper 3	inches from re	cent heavy precipitation.
	· ·		• •		, , ,

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30'	Absolute			Dominance Test worksheet:		
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species 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/E
		·	· ——	Prevalence Index worksheet:		
	0			Total % Cover of:	Multiply by:	
50% of total cover: 0		= Total Cov		OBL species x 1	=	
apling/Shrub Stratum (Plot size: 15')	20% 01	ioiai covei.		FACW species x 2		
				FAC species x 3		
				FACU species x 4		
		-		UPL species x 5		
				Column Totals: (A)		(B)
				Prevalence Index = B/A =		_
			· ——	Hydrophytic Vegetation Indicat	ors:	
				1 - Rapid Test for Hydrophyti	c Vegetation	
		-		2 - Dominance Test is >50%	-	
				3 - Prevalence Index is ≤3.0 ¹		
		= Total Cov	_	4 - Morphological Adaptation		oportin
50% of total cover:0	20% of	total cover		data in Remarks or on a s		
lerb Stratum (Plot size: 5')				Problematic Hydrophytic Veg	•	
Microstegium vimineum	75		F <u>AC</u>		otation (Expla	,
Carex lurida	20		<u>OBL</u>	¹ Indicators of hydric soil and wetla	and hydrology	muet
_ Juncus effusus	5		F <u>AC</u>	be present, unless disturbed or pr		must
				Definitions of Four Vegetation	Strata:	
	_			The NAME of the Lord of the Control	·	
				Tree – Woody plants, excluding war more in diameter at breast height		
·				height.	(22), .ega.a	.000 0
•	_			Sanling/Shrub Waadu planta	مردمان طائم مريام م	
·				Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than of		
0				m) tall.		
1.				Herb – All herbaceous (non-wood	du) plante roge	ordloca
	100	= Total Cov	er	of size, and woody plants less that		ii uies:
50% of total cover: 50%	20% of	total cover	20			0 (1)
Voody Vine Stratum (Plot size: 15')				Woody vine – All woody vines gr height.	eater than 3.28	3 ft in
·				noight.		
			·			
·				Hydrophytic		
•	0	Tatal Car		Vegetation Present? Yes ✓	No	
50% of total cover:0		= Total Cov total cover:	_			
		total cover.				
Remarks: (Include photo numbers here or on a separate	sneet.)					

SOIL Sampling Point: W-F55

Depth	Matrix			x Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	7.5 YR 4/2	60	5 YR 4/4	20	С	M	SiCL	
			7.5 YR 4/3	10	С	M	SiCL	
			2.5 YR 5/6	5	С	M	SiCL	
			10 YR 4/6	5	С	M	SiCL	
4-20	5 YR 4/3	90	7.5 YR 5/6	10	С	М	SiL	
Type: C-Co	oncentration, D=Depl	etion RM-	Reduced Matrix MS	S-Masker	d Sand Gr	aine	² Location: PI	=Pore Lining, M=Matrix.
	Indicators:	elion, Kivi=	Neduced Matrix, Mc	3=IVIASKE	J Sanu Gi	airis.		tors for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy M MLRA Sandy R Sandy R Stripped	pipedon (A2)	RR N,	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Depleted Dan Redox Depre Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	elow Surface (S9 ed Matrix (F3) Surface (F S	(MLRA 1) (MLRA 1) (F2) (F6) (F7) (8) (es (F12) (MLRA 13) (GIIS (F19)	LRR N, 66, 122) (MLRA 14	. 148) Co Pi Ve Ot 3India 48) wet	cm Muck (A10) (MLRA 147) coast Prairie Redox (A16) (MLRA 147, 148) edmont Floodplain Soils (F19) (MLRA 136, 147) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) cators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic.
Туре:			<u>—</u>					_
Depth (inc	ches):						Hydric Soil	Present? Yes 🗸 No



Photograph Direction WNW

Date: 05/30/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/	County: Harrison		Sampling Date: 05/30/2015		
Applicant/Owner: MVP					Sampling Point: W-F55-UP		
Investigator(s): Ed Strohmaier, Da	wn McCullou				_ ,		
Landform (hillslope, terrace, etc.): road					Slope (%): 5		
Subregion (LRR or MLRA): LRRN					Datum: NAD 83		
Soil Map Unit Name: Gilpin-Upshur			-				
Are climatic / hydrologic conditions on tl	he site typical fo	or this time of year?	Yes No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or					_		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
					· · ·		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		Is the Sampled Area				
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:					tors (minimum of two required)		
Primary Indicators (minimum of one is			· · ·	Surface Soil			
Surface Water (A1)		True Aquatic Plants			getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od	dor (C1) res on Living Roots (C3)	Drainage Pat			
Saturation (A3) Water Marks (B1)		Presence of Reduce	= : :	Moss Trim Li			
Sediment Deposits (B2)			on in Tilled Soils (C6)	Dry-Season Water Table (C2) bils (C6) Crayfish Burrows (C8)			
Drift Deposits (B3)		Thin Muck Surface (· ·	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Re			tressed Plants (D1)		
Iron Deposits (B5)		, .	•	Geomorphic			
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqui	tard (D3)		
Water-Stained Leaves (B9)					phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present? Yes _	No	Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Presen	t? Yes No		
Describe Recorded Data (stream gaug	ge, monitoring w	ell, aerial photos, pr	evious inspections), if ava	ilable:			
Remarks:							
Upland plot is located to the so	uth on the for	rested slope abo	ove the wetland.				
opiana piet le lecateu te tile ce		. cotou ciopo asc	vo ino voliana.				

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

2. Acer rubrum 20

Tree Stratum (Plot size: 30' %

1. Carya tomentosa

Sapling/Shrub Stratum (Plot size: 15')

2. Fagus grandifolia

4. Carya tomentosa 5

5._____ ____

1. Acer rubrum

3. Crataegus crus-galli

Herb Stratum (Plot size: 5')

,	Absolute	Dominant	Indicator	Dominance Test worksheet:	
)	% Cover 75	Species? ✓	Status UPL	Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
	20	'	FAC	Total Number of Dominant Species Across All Strata: 4	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B
			· <u></u>	Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
4.7		= Total Cov		OBL species x 1 =	
50% of total cover: <u>47.</u>	. <u>5</u> 20% of	total cover:	19	FACW species x 2 =	-
e:)	25		E40	FAC species x 3 =	-
	50		FAC	FACU species x 4 =	-
	5		FACU_	UPL species x 5 =	-
	5		FACU FACU	Column Totals: (A)	
			· ——	Prevalence Index = B/A =	_
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
		-		2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
50% of total cover: 42.		= Total Cov		4 - Morphological Adaptations ¹ (Provide supp	oortin
50% of total cover:	<u>.J </u>	total cover		data in Remarks or on a separate sheet)	
)				Problematic Hydrophytic Vegetation ¹ (Explai	n)
			·	¹ Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	nust
				Definitions of Four Vegetation Strata:	
			·	Tree – Woody plants, excluding vines, 3 in. (7.6 of more in diameter at breast height (DBH), regardle height.	
				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28 m) tall.	
	0	= Total Cov	er	Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall.	dless
50% of total cover: 0	20% of	total cover:	. 0	Woody vine – All woody vines greater than 3.28 height.	ft in
				Hydrophytic	
	0	Total Oss		Vegetation Present? Yes No	
50% of total cover: 0		= Total Cov total cover:	^		

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: 15')

Sampling Point: W-F55-UP

SOIL

Depth	Matrix		Redo	x Features	1 . 2				
inches)	Color (moist)	<u>%</u>	Color (moist)	<u> % Ty</u>	rpe ¹ Loc ²	Texture	. ———	Remarks	S
0-3	7.5YR 4/2	100				SiL			
4-20	5YR 4/4	95	10 YR 6/6	<u>5</u> <u>C</u>	<u>M</u>	SiCL			
		 							
	-								
_					-		-		
vne: C=Cc	ncentration D=Den	letion RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains	² Location: F	PI =Pore I ini	ng M=Matri	x
	ndicators:	70001, 1001	rtoddod Matrix, Me	5-Macroa Car	id Oranio.	Indic	ators for Pr	oblematic I	Hydric Soils
Histosol			Dark Surface	(S7)			2 cm Muck (
	pipedon (A2)				88) (MLRA 147		Coast Prairie	, .	•
_ Black His	stic (A3)		Thin Dark Su	rface (S9) (MI	RA 147, 148)		(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleye	, ,		ا	Piedmont Flo		ls (F19)
_	Layers (A5)		Depleted Mat				(MLRA 13		
	ck (A10) (LRR N)	- (0.4.4)	Redox Dark S	, ,			Very Shallow		, ,
	l Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Dar	k Surface (F7)	— '	Other (Expla	ın ın Remarı	KS)
	lucky Mineral (S1) (I	I RR N		ese Masses (F	12) (I RR N				
	147, 148)		MLRA 13		12) (2111111,				
	leyed Matrix (S4)			ce (F13) (MLF	RA 136, 122)	3In	dicators of h	ydrophytic ve	egetation and
	edox (S5)				(F19) (MLRA 1		etland hydro		-
	Matrix (S6)		Red Parent N	Naterial (F21)	(MLRA 127, 14	7) uı	nless disturb	ed or proble	matic.
4-1-41		•							
estrictive L	_ayer (if observed):	-							
Type:	_ayer (if observed):	•							
			<u> </u>			Hydric Soi	I Present?	Yes	No
Type:			<u> </u>			Hydric Soi	I Present?	Yes	No
Type: Depth (inc			_			Hydric Soi	I Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	Il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	Il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Soi	il Present?	Yes	No _
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type:						Hydric Soi	il Present?	Yes	No
Туре:						Hydric Soi	il Present?	Yes	No
Type:						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type: Depth (inc						Hydric Soi	il Present?	Yes	No
Type:						Hydric Soi	il Present?	Yes	No

Project/Site: MVP		City/C	county: Harrison		Sampling Date: 06/01/2015	
Applicant/Owner: MVP					Sampling Point: W-K43	
Investigator(s): J. Hart, D. S	Santillo, J. Potrik	us Section	on, Township, Range: N/A	4		
Landform (hillslope, terrace, et					Slope (%): 1	
Subregion (LRR or MLRA): L			Long: -80.5		Datum: NAD 83	
Soil Map Unit Name: Vanda						
Are climatic / hydrologic condit						
·		-			esent? Yes <u> </u>	
Are Vegetation, Soil						
Are Vegetation, Soil SUMMARY OF FINDIN				plain any answers	in Remarks.) important features, etc.	
				<u> </u>	·	
Hydrophytic Vegetation Pres		No	Is the Sampled Area	,		
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No No	within a Wetland?	Yes	No	
Remarks:	162	NO				
Cowardin Code: PEM HGM: 2015 Notes: Wetland plot paired with W-K4 table is likely higher closer to Information listed on this form hydrophytic vegetation, and h	13UP. Riverine wetla the stream (S-K73)	and occurs in floodplain of				
HYDROLOGY	, 4.1.0 00.10 1140 001.11.		rogional Cappionion			
Wetland Hydrology Indicate	ors:			Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum	of one is required; of	heck all that apply)	- -	Surface Soil C	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Patt		
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lir		
Water Marks (B1)		Presence of Reduced	• , , -		Vater Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio	` '	Crayfish Burro	` ,	
Drift Deposits (B3)		Thin Muck Surface (C			ible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Ren			ressed Plants (D1)	
Iron Deposits (B5)		_ ` '		Geomorphic F	` ,	
Inundation Visible on Ae	rial Imagery (B7)		- -	 Shallow Aquit		
Water-Stained Leaves (E	39)		•	Microtopogran	phic Relief (D4)	
Aquatic Fauna (B13)	,			FAC-Neutral	` '	
Field Observations:					· ,	
Surface Water Present?	Yes No	✓ Depth (inches):				
Water Table Present?	Yes No	Depth (inches):				
Saturation Present?		Depth (inches):		drology Present	? Yes ✔ No	
(includes capillary fringe)						
Describe Recorded Data (str	eam gauge, monitori	ng well, aerial photos, pre	vious inspections), if avail	able:		
Remarks:						
rtomanto.						

ames of	-		Sampling Poi	III. <u>VV 1140</u>	
			Dominance Test worksheet:		
		Status	Number of Dominant Species That Are OBL, FACW, or FAC:	6	(A)
			Total Number of Dominant		
			Species Across All Strata:	6	(B)
			Percent of Deminent Species		
				100	(A/B)
				,	-
0	= Total Co	ver			
20% of	total cover	:0			
			•		
			UPL species x 5	5 =	_
			Column Totals: (A))	(B)
			Drevelence Index D/A		
		-			_
	-				
0	= Total Co	ver			
<u></u>				•	
20	~	OBL	Problematic Hydrophytic Veg	getation (Expla	ain)
20	~	FACW			
10	~				must
10	~		•		
10	~		Definitions of Four Vegetation	Strata:	
10	~				
5				t (DBH), regard	dless of
5	-		noight.		
		17100			
				or equal to 3.2	8 п (1
			,		
90	Total Co				ardless
20,0 0.	10100070.			reater than 3.2	8 ft in
			neight.		
· 			Hydrophytic		
0	T-1-1-0		Present? Yes	No	
	= Total Co	_			
200/ 64	total cover	. 0			
	Absolute % Cover	Absolute % Cover Species? O = Total Cover 20% of total cover 20	Absolute % Cover Species? Status O = Total Cover 20% of total cover: 0 20	Absolute % Cover Species? Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACW species FACW species FACU species V: FACW species FACU species V: FACW spec	Absolute % Cover Species? Status Dominant Indicator Species? Status

SOIL Sampling Point: W-K43

Profile Desc	ription: (Describe to	o the dept	h needed to docur	nent the	indicator	or confirn	n the ab	sence of indicators.)	
Depth	Matrix			x Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²		ture Remarks	
0-14	10YR 4/2	97	10YR 4/6	3	С	M/PL	Silty	Clay	
-	-								
					· 		-		
				-	· 		-		
				-	-	-			_
							-		
	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Locat	tion: PL=Pore Lining, M=Matrix.	3
Hydric Soil			_					Indicators for Problematic Hydric Soils	s~:
Histosol			Dark Surface	. ,				2 cm Muck (A10) (MLRA 147)	
	oipedon (A2)		Polyvalue Be				, 148)	Coast Prairie Redox (A16)	
	stic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		- C)			(MLRA 136, 147)	
	ıck (A10) (LRR N) d Below Dark Surface	(111)	Redox Dark : Depleted Dark :					Very Shallow Dark Surface (TF12)Other (Explain in Remarks)	
	ark Surface (A12)	(A11)	Redox Depre		. ,			Other (Explain in Kemarks)	
	Mucky Mineral (S1) (L l	RR N	Iron-Mangan			I RR N			
	A 147, 148)	, , , , , , , , , , , , , , , , , , ,	MLRA 13		700 (1 12) (,			
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 1	36. 122)		³ Indicators of hydrophytic vegetation an	nd
	Redox (S5)		Piedmont Flo				48)	wetland hydrology must be present,	
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.	
Restrictive	Layer (if observed):							•	
Type:									
	ches):						Hydr	ric Soil Present? Yes 🖊 No	
Remarks:							, ,		
rtomanto.									



Photograph Direction West

Date: 06/01/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Co	_{unty:} Harrison	Sampling Date: 06/01/2015			
Applicant/Owner: MVP			V Sampling Point: W-K43UP			
Investigator(s): J. Hart, D. Santillo, J. Potrik						
Landform (hillslope, terrace, etc.): Hillslope			ex Slope (%): 4			
Subregion (LRR or MLRA): LRRN			Datum: NAD 83			
Soil Map Unit Name: Vandalia silty clay loan						
Are climatic / hydrologic conditions on the site typic						
Are Vegetation, Soil, or Hydrology			_			
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit			•			
Attach sit		mig point locations, trails	scots, important reatures, etc.			
	No	Is the Sampled Area				
	No		No <u> </u>			
	No					
Remarks: Upland						
Upland plot paired with W-K43. Occurs	on hillside adjacent to	wetland in an area dominate	ed by upland vegetation.			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)		e Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B		ely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor		ge Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres		Γrim Lines (B16)			
Water Marks (B1)	Presence of Reduced		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction	in Tilled Soils (C6) Crayfis	sh Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7	") Satura	tion Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rema	arks) Stunte	d or Stressed Plants (D1)			
Iron Deposits (B5)		Geomo	orphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallov	w Aquitard (D3)			
Water-Stained Leaves (B9)		Microto	opographic Relief (D4)			
Aquatic Fauna (B13)		FAC-N	leutral Test (D5)			
Field Observations:	•					
	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Wetland Hydrology P	Present? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previ	ous inspections), if available:				
Remarks:						
No hydrology						

% Cover	Species?	Status		
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)	
			Total Number of Deminent	
			Total Number of Dominant Species Across All Strata:3 (B)	
			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B	
			(745	
-			Prevalence Index worksheet:	
0	= Total Cove	er	Total % Cover of: Multiply by:	
20% of	total cover:	0	OBL species x 1 =	
			FACW species x 2 =	
			FAC species x 3 =	
			FACU species x 4 =	
			UPL species x 5 =	
			Column Totals: (A) (B)	
			Prevalence Index = B/A =	
			Hydrophytic Vegetation Indicators:	
			1 - Rapid Test for Hydrophytic Vegetation	
			2 - Dominance Test is >50%	
0	– Total Cov		3 - Prevalence Index is ≤3.0 ¹	
			4 - Morphological Adaptations ¹ (Provide supporting	
			data in Remarks or on a separate sheet)	
20	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
20				
15			¹ Indicators of hydric soil and wetland hydrology mu	
10			be present, unless disturbed or problematic.	
10			Definitions of Four Vegetation Strata:	
5			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o	
5			more in diameter at breast height (DBH), regardless of height.	
5			noight.	
			Sapling/Shrub – Woody plants, excluding vines, less	
			than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
		I <u>ACW</u>		
100	Tatal Cau		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
			or size, and woody plants less than 3.20 it tall.	
2070 01	total oover.		Woody vine – All woody vines greater than 3.28 ft in	
			height.	
· 			Hydrophytic	
			Vegetation Present? Yes No _ ✓	
		_	rieseitt: iesito	
	total cover:			
sheet.)				
	0 20% of 20% of 20 15 10 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 = Total Cover: 20% of total cover: 20		

SOIL Sampling Point: W-K43UP

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the	indicator	or confirr	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16	10YR 4/3	99	10YR 6/6	1	С	M	SCL	
								_
				-	· 			
				-	·			
					· 			
1T C. C.		-tion DM	Dadwaad Matrix M	- Maalaa			21	N. Deve Lining M. Matrix
Hydric Soil	oncentration, D=Depl	etion, Rivi=	Reduced Matrix, Mis	s=Maske	d Sand Gi	ains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
•			5 10 ((07)				
Histosol			Dark Surface		(65)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148) (Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(►2)		F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark					/ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dai				_ (Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		ses (F12)	(LRR N,		
	\ 147, 148)		MLRA 13	•			2	
	lleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	-21) (MLF	RA 127, 14	7) ur	lless disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes No ✔
Remarks:	,							
No hydric i	ndicators							
to riyano r	idioatoro							

Project/Site: MVP	City/Cou	_{nty:} Harrison	Sampling Date: 06/01/2015
Applicant/Owner: MVP	,	Stat	e: WV Sampling Point: W-K44
Investigator(s): J. Hart, D. Santillo, J. Potrik			
Landform (hillslope, terrace, etc.): Drainageway		· · · · · ·	concave Slope (%): 1
Subregion (LRR or MLRA): LRRN	1 at: 39.243467	Long: -80.5546	049 Datum: NAD 83
Soil Map Unit Name: Udifluvents and Fluvaq		Long N	
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology			_
Are Vegetation, Soil, or Hydrology	-		any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit			
	, ,		, , ,
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No.	the Sampled Area	
Wetland Hydrology Present? Yes	<u>√</u> No w	ithin a Wetland?	Yes No
Remarks: Cowardin Code: PEM HGM: Slope WT: RPWWD			
•	nd occurs in narrow vallev with a sh	allow groundwater table.Wetland a	ppears to be water source of adjacent pond. While
2015 Notes: Wetland plot paired with W-K44UP. Slope wetla wetland is associated with adjacent intermittent stream S-K75 column down (NE) the small valley, this is the reason for an H	i, the primary hydrology source appe IGM classification of slope.	ears to be a shallow groundwater to	able caused by water moving laterally through the soil
Information listed on this form represents the data collected ir was confirmed using the USACE EMP Regional Supplement	2015. The wetland was revisited or delineation methodology.	n 09/18/2019. Presence of wetland	hydrology, hydrophytic vegetation, and hydric soils
HYDROLOGY			
Wetland Hydrology Indicators:		Seco	ndary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; of	heck all that apply)	s	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B1		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (Orainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres		Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iro	on (C4) Γ	Pry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in	n Tilled Soils (C6) C	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	8	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remar	ks) S	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		<u>~</u> 0	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		<u> </u>	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		N	licrotopographic Relief (D4)
Aquatic Fauna (B13)		<u> </u>	AC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes No _	Depth (inches):		
	Depth (inches):		
	Depth (inches):		ogy Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ing well serial photos previo	us inspections) if available:	
Describe Recorded Data (Stream gauge, monitor	ing well, derial photos, previo	us mapeenons), ii avanabie.	
Remarks:			

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

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: __

Herb Stratum (Plot size: ___

3. Panicum dichotomiflorum

4. Dicanthelium clandestinum

Woody Vine Stratum (Plot size: 15'

5. Persicaria sagittata

1. Carex lurida

2. Carex scoparia

6. Carex vulpinoidea

7. Scirpus cyperinus

8. Mentha spicata

____)

50% of total cover: ___0

50% of total cover: ____50___ 20% of total cover:___ 20

50% of total cover: 0 20% of total cover:

50% of total cover: ___0 __ 20% of total cover: ___0

nes of	plants.		Sampling I	Poin	t: <u>W-K44</u>	
bsolute			Dominance Test worksheet	:		
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC		3	(A)
			Total Number of Dominant Species Across All Strata:	_	3	(B)
		·	Percent of Dominant Species That Are OBL, FACW, or FAC		100	(A/B
			Prevalence Index workshee	t:		
0 .	T		Total % Cover of:		Multiply by:	
	= Total Cov total cover:	_	OBL species		=	
20% 01	total cover.		FACW species			
			FAC species		=	
	-				=	_
			UPL species		 =	_
			Column Totals:			(B)
			Prevalence Index = B/A	۱ = _		_
			Hydrophytic Vegetation Ind	icato	rs:	
			1 - Rapid Test for Hydrop	hytic	Vegetation	
			2 - Dominance Test is >5		Ū	
			3 - Prevalence Index is ≤	3.0 ¹		
	= Total Cov	_	4 - Morphological Adapta	tions	1 (Provide sur	portin
20% of	total cover:	0	data in Remarks or or			
	á		Problematic Hydrophytic		. ,	
25		<u>OBL</u>		voge	tation (Expid	,
20		OBL	¹ Indicators of hydric soil and v	watla	nd hydrology	muet
15		F <u>ACW</u>	be present, unless disturbed			iiiuSt
10		F <u>AC</u>	Definitions of Four Vegetati			
10		OBL				
10		F <u>AC</u>	Tree – Woody plants, excludi more in diameter at breast he			
5		OBL	height.	igiit (DBH), regard	1699 0
5		F <u>ACU</u>	Sapling/Shrub – Woody plar than 3 in. DBH and greater th			
			m) tall.) alasta assa	
	= Total Cov	- 00	Herb – All herbaceous (non-vof size, and woody plants less			ardiess
_ 20% of	total cover:	20	Woody vine – All woody vine height.	s gre	eater than 3.28	8 ft in
0 .	= Total Cov	rer	Hydrophytic Vegetation Present? Yes	, <u> </u>	No	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: W-K44

Profile Desc	ription: (Describe t	o the dep	th needed to docur	nent the	indicator	or confirn	n the ab	sence of indi	cators.)	
Depth	Matrix		Redo	x Feature	es.					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text		Remarks	
0-6	10YR 4/1	96	10YR 4/6	4	С	M/PL	Silty (Clay		
6-14	10YR 6/2	92	10YR 4/6	8	С	M/PL	Silty (Clay		
					<u> </u>					_
					· 					
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Locati	on: PL=Pore	Lining, M=Matrix.	
Hydric Soil I		•	,						r Problematic Hydric S	Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Mud	ck (A10) (MLRA 147)	
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ace (S8) (N	ILRA 147,	, 148)	Coast Pra	airie Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA 1	147, 148)		(MLRA	\ 147, 148)	
	n Sulfide (A4)		Loamy Gleye		(F2)				t Floodplain Soils (F19)	
	Layers (A5)		Depleted Ma						A 136, 147)	
	ick (A10) (LRR N)	(044)	Redox Dark						Illow Dark Surface (TF1:	2)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dai					Other (E)	kplain in Remarks)	
	lucky Mineral (S1) (L	RR N.	Iron-Mangan			I RR N				
	147, 148)	,	MLRA 13		,00 (i i.e.) (,				
	lleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	6, 122)		³ Indicators	of hydrophytic vegetatio	n and
	edox (S5)		Piedmont Flo				48)		drology must be preser	
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 14	7)	unless dist	turbed or problematic.	
Restrictive I	ayer (if observed):									
Type:										
Depth (inc	ches):						Hydri	c Soil Presen	nt? Yes 🗸 No	
Remarks:										

Wetland ID W-K44 Cowardin Code PEM



Photograph Direction NNW

Date: <u>06/01/2015</u>

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: _	Doddridge	Sampling Date: 06/01/2015
Applicant/Owner: MVP			Sampling Point: W-K44UP
Investigator(s): J. Hart, D. Santillo, J. Potrikus			
Landform (hillslope, terrace, etc.): Hillslope	Local relief (cond	ave, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): LRRN Lat:		Long: -80.554632	
Soil Map Unit Name: Udifluvents and Fluvaquer		NWI class	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			s" present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any ans	
SUMMARY OF FINDINGS – Attach site m			
.1		•	
Hydrophytic Vegetation Present? Yes	is the	Sampled Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	4 77.6	a Wetland? Yes	No
Remarks:			
Upland			
Upland plot paired with W-K44. Occurs on I	nillside adjacent to wetla	nd. The sample plot occu	urs on a north facing slope in
mesic forest and as such possesses a hydr	ophytic vegetation comr	nunity primarily composed	d of FAC and FACU species.
The sample plot lacked positive indicators f	or hydric soils and wetla	nd hydrology and was de	termined not to be a wetland.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface S	oil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely \	/egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Liv	ring Roots (C3) Moss Trim	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C	4) Dry-Seaso	on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tille	d Soils (C6) Crayfish E	Surrows (C8)
	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
	Other (Explain in Remarks)		r Stressed Plants (D1)
Iron Deposits (B5)			nic Position (D2)
Inundation Visible on Aerial Imagery (B7)			quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neut	rai Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Pres	sent? Yes No_ 🗸
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous in	spections), if available:	
Remarks:			
No hydrology			

Sampling	Point:	W-K44UP
Januania	I OIIII.	

Troo Stratum (Plot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stiatum (Fiot Size)		Species?		Number of Dominant Species
1. Acer saccharum	30		<u>FACU</u>	That Are OBL, FACW, or FAC:6 (A)
2. Liriodendron tulipifera	15		FACU_	Total Number of Dominant
3. Carpinus caroliniana	15	✓	FAC	Species Across All Strata: 9 (B)
4. Robinia pseudoacacia	5		FACU	
5				Percent of Dominant Species That Are OBL FACW or FAC: 67
•		-		That Are OBL, FACW, or FAC:(A/B)
6		-		Prevalence Index worksheet:
<i>1</i>	65			Total % Cover of: Multiply by:
500/ - () -		= Total Cov		OBL species x 1 =
50% of total cover: 32.5	20% of	total cover:		FACW species x 2 =
Saping/Stratum (Flot Size)	0.5	,		-
1. Acer saccharum	25		FACU_	FAC species x 3 =
2. Carpinus caroliniana	15		FAC	FACU species x 4 =
3. Lindera benzoin	5		FAC	UPL species x 5 =
4. Rosa multiflora	5		FACU	Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9		-		3 - Prevalence Index is ≤3.0 ¹
0.5		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 25	20% of	total cover:	10	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Microstigeum vinimeum	20		F <u>AC</u>	1 Toblematic Trydrophytic Vegetation (Explain)
2. Athyrium asplenoides	20		F <u>AC</u>	1
3. Verbesina alternifolia	15	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Dicanthelium clandestinum	10	'	FAC	
5. Polystichum athrostichoides	10		FAC	Definitions of Four Vegetation Strata:
6. Fragaria virginiana	5	(FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Senecio vulgaris	5			more in diameter at breast height (DBH), regardless of
8. Agrimonia parviflora			FACU	height.
			F <u>AC</u>	Sapling/Shrub – Woody plants, excluding vines, less
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	90 ,	= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:	18	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Toxicodendron radicans	20		FAC	
2				
3.				
4.				
				Hydrophytic
5	20	T		Vegetation Present? Yes <u>✓</u> No
50% of total cover: 10		= Total Cov		100 10
		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-K44UP

Depth Matrix Redox Features (inches) Color (moist) % Type¹ Loc² Texture	
	Remarks
0-16 10YR 4/3 99 10YR 6/6 1 C M SCL	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining	ı. M=Matrix.
	blematic Hydric Soils ³ :
	0) (MLRA 147)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie R	
Polyvarde Below Surface (S6) (MLRA 147, 146) Coast Plante N Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147,	
	dplain Soils (F19)
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136,	
	Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain	
Depicted Science (A12) Redox Depressions (F8)	iii itomanoj
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
	rophytic vegetation and
	gy must be present,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) wetland hydrolog	
Restrictive Layer (if observed):	or problematic.
Type:	
** -	
·· -	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No <u>V</u>
Depth (inches): Hydric Soil Present? Remarks:	Yes No <u>V</u>
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No_ <u>V</u> _
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present?	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No
Depth (inches): Hydric Soil Present? Remarks:	Yes No

Project/Site: MVP	City/C	_{County:} Harrison		Sampling Date: 12/19/2017
Applicant/Owner: MVP				Sampling Point: W-CV15
	Section	on, Township, Range: N/	<u>-</u>	_
Landform (hillslope, terrace, etc.): Floodpla				Slope (%): 0-4
Subregion (LRR or MLRA): LRR N	Lat. 39 223385			
Soil Map Unit Name: Lindside silt loam, 0 to				
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro			Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydro	logynaturally problemate	atic? (If needed, e	xplain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attack	site map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Ye	s No			
, , , , , , , , , , , , , , , , , , , ,	s <u>/</u> No	Is the Sampled Area	Yes 🗸	Ma
	s / No	within a Wetland?	res	No
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: [RPWWD	
Cowardin Code. 1 Elvi	TIOM. Clope	vvator Typo. I	II VVVD	
HYDROLOGY				
Wetland Hydrology Indicators:			•	tors (minimum of two required)
Primary Indicators (minimum of one is required)		<u> </u>	Surface Soil	` '
Surface Water (A1)	True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pa	
Saturation (A3)		es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)	on in Tilled Soils (C6)	Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Thin Muck Surface (C7) Other (Explain in Remarks)			tressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Rei	ilaiks)		Position (D2)
Inundation Visible on Aerial Imagery (B7	' \		Shallow Aqui	
Water-Stained Leaves (B9)	,		✓ Microtopogra	
Aquatic Fauna (B13)			FAC-Neutral	. ,
Field Observations:				
	No Depth (inches):			
Water Table Present? Yes	No Depth (inches):			
	No Depth (inches):		vdrology Preser	nt? Yes 🗸 No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	vious inspections), if avai	lable:	
Remarks:				

VEGETATION (Four Strata) - Use scientific names o

50% of total cover: ____0___20%

50% of total cover: ___0

50% of total cover: 45 20%

50% of total cover: ___0

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15')

nes of plants.	ndicator	Sampling Point: W-CV15 Dominance Test worksheet:					
Scover Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)				
		Total Number of Dominant Species Across All Strata: 2	(B)				
		Percent of Dominant Species That Are OBL, FACW, or FAC:50	(A/B)				
		Prevalence Index worksheet:					
0 = Total Cove		Total % Cover of: Multiply by:					
20% of total cover:	^	OBL species x 1 =	_				
_		FACW species 50 x 2 = 100					
		FAC species15 x 3 =45	_				
		FACU species25 x 4 =100	_				
		UPL species x 5 =					
		Column Totals: 90 (A) 245	(B)				
		Prevalence Index = B/A = 2.72	_				
		Hydrophytic Vegetation Indicators:					
		1 - Rapid Test for Hydrophytic Vegetation					
	2 - Dominance Test is >50%						
		3 - Prevalence Index is ≤3.0 ¹					
0 = Total Cove	^	4 - Morphological Adaptations ¹ (Provide sup	porting				
20% of total cover:_		data in Remarks or on a separate sheet)				
25	FACU	Problematic Hydrophytic Vegetation ¹ (Expla	ain)				
	FACW						
	FACW	¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must				
15	FAC	Definitions of Four Vegetation Strata:					
	FACW	Definitions of Four Vegetation Strata:					
		Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regard height.					
		Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than or equal to 3.28 m) tall.					
90 = Total Cove		Herb – All herbaceous (non-woody) plants, regards size, and woody plants less than 3.28 ft tall.	ardless				
20% of total cover:_	18	Woody vine – All woody vines greater than 3.2 height.	8 ft in				
0 = Total Cover:	 	Hydrophytic Vegetation Present? Yes <u></u> ✓ No					

Remarks: (Include photo numbers here or on a separate sheet.)

Herb Stratum (Plot size: ___

1. Dactylis glomerata

2. Phalaris arundinacea

4. Dichanthelium clandestinum

Woody Vine Stratum (Plot size: 15')

5. Cyperus esculentus 10

3. Juncus effusus

Depth	ription: (Describe t		Redo	K Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)		ype ¹ Loc ²	<u>Texture</u>		Remarks	
0-16	5YR 4/2	90	7.5YR 5/6	10 (<u> M</u>	CL	-		
vne: C=Co	oncentration, D=Depl	etion RM=F	Reduced Matrix MS	=Masked Sa	and Grains	² Location: Pl	=Pore Linin	g M=Matrix	
	ndicators:	otion, rtivi–i	toddood Matrix, Mc	-Maskea oc	ara Grains.			blematic Hyd	dric Soils ³ :
Histosol			Dark Surface	(S7)				10) (MLRA 1 4	
	oipedon (A2)				(S8) (MLRA 147		•	Redox (A16)	,
Black Hi					LRA 147, 148)		(MLRA 147		
	n Sulfide (A4)		Loamy Gleye	. , .		Pi	•	odplain Soils (F19)
_ Stratified	Layers (A5)		Depleted Mat	rix (F3)			(MLRA 136	, 147)	
	ck (A10) (LRR N)		Redox Dark S	. ,				Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dar		7)	0	ther (Explain	n in Remarks)	
	ark Surface (A12)		Redox Depre						
	lucky Mineral (S1) (L	RR N,			F12) (LRR N,				
	147, 148)		MLRA 130	•	DA 400 400\	31		dan allo d'allo allo	
	leyed Matrix (S4)				RA 136, 122)			drophytic vege	
-	edox (S5) Matrix (S6)				(F19) (MLRA 1 (MLRA 127, 14			ogy must be po d or problema	
	-ayer (if observed):		Neu Faleili N	ialeriai (FZT)	(WLKA 127, 14	T uni	ess distuibe	u or problema	ilic.
Type:	ayer (ii observeu).								
	shoo).					Usalvia Cail	Dragant?	Yes_	Na
	ches):		<u>—</u>			Hydric Soil	Present?	res	No
emarks:									

Wetland Photograph Page

Wetland ID <u>W-CV15</u> Date <u>12/19/201</u>7



Photograph Direction SW

Comments:		

Project/Site: MVP		City/C	_{ounty:} Harrison		Sampling Date: 12/19/2017
Applicant/Owner: MVP				State: WV	Sampling Point: W-CV14, W-CV15 UF
• • • • • • • • • • • • • • • • • • • •		Sectio	n, Township, Range: N		_
Landform (hillslope, terrace, etc.): Hillslo					Slope (%): 0-4
Subregion (LRR or MLRA): LRR N			Long: -80		Datum: NAD 83
Soil Map Unit Name: Lindside silt loam, C					<u> </u>
Are climatic / hydrologic conditions on the s					<u></u>
Are Vegetation, Soil, or Hyd		•		•	
Are Vegetation, Soil, or Hyd SUMMARY OF FINDINGS – Atta				explain any answe	
			pinig point location		, important routaros, etc.
	Yes		Is the Sampled Area		
	Yes	,	within a Wetland?	Yes	No
Danie and a	Yes				
Cowardin Code: UPLA	AND F	HGM:	Water Type:		
HYDROLOGY					
Wetland Hydrology Indicators:					ators (minimum of two required)
Primary Indicators (minimum of one is req				Surface Soil	
Surface Water (A1)		rue Aquatic Plants (E			getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	
Saturation (A3)		Presence of Reduced	es on Living Roots (C3)		
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	Water Table (C2)
Drift Deposits (B3)		hin Muck Surface (C		-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rem			tressed Plants (D1)
Iron Deposits (B5)	_	()	,		Position (D2)
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
		Depth (inches):			
		Depth (inches):			
	_ No	Depth (inches):	Wetland	Hydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, i	monitoring we	ell, aerial photos, prev	vious inspections), if ava	ailable:	
, , ,	· ·		, ,,		
Remarks:					
Isolated pooling.					

Sampling	Point:	W-CV14,	W-CV15	UF
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30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata:1 (B)
4				Bound of Bouris and On a size
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		-		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
500/ - (() () ()		= Total Cov	_	OBL species x 1 =
50% of total cover: 0	20% of	total cover:		FACW species x 2 =
Japinig/Ornab Ottatum (1 lot size)				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3		-		
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
_		= Total Cov	_	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')			E4.011	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dactylis glomerata	40		FACU	Froblematic Hydrophytic vegetation (Explain)
2. Phleum pratense	10		FACU	The disease of building all and weather discussions as
3. Phalaris arundinacea	10		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Trifolium pratense	5		FACU_	Definitions of Four Vegetation Strata:
_{5.} Trifolium repens	5		FACU	Definitions of Four Vegetation Strata.
6. Agrostis alba	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				,
	75	= Total Cov	or.	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 37.5				
Woody Vine Stratum (Plot size: 15')		1010.		Woody vine – All woody vines greater than 3.28 ft in
1				height.
2.				
	·			
3		-		
4				Hydrophytic
5	0	T-1-1-0		Vegetation Present? Yes No _✓
50% of total cover: 0		= Total Cov total cover:	_	
		total cover.		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Depth (inches) Matrix (inches) Redox Features (color (moist)) Type¹ Loc² Texture Remarks 0-3 7.5YR 4/4 100 SCL 3-16 5Y 4/3 100 SCL
0-3 7.5YR 4/4 100 SCL
3-16 5Y 4/3 100 SCL

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19)
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8)
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,
MLRA 147, 148) MLRA 136)
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation and
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.
Restrictive Layer (if observed):
Type:
Depth (inches): No
Remarks:

Project/Site: MVP		City/C	ounty: Harrison		Sampling Date: 10/13/2015	
Applicant/Owner: MVP			,		Sampling Point: W-A24	
Investigator(s): S. Townsend	, A. Hatfield, L.					
Landform (hillslope, terrace, etc.					Slope (%): 3%	
Subregion (LRR or MLRA): LR					Datum: NAD83	
Soil Map Unit Name: Gilpin-U			-			
Are climatic / hydrologic condition	ns on the site typic	al for this time of year? Y	es <u>/</u> No ((If no, explain in R	emarks.)	
·		· · · · · · · · · · · · · · · · · · ·			resent? Yes No	
Are Vegetation, Soil				explain any answe		
_					, important features, etc.	
Lhudranhutia Vanatatian Brasso	nt? Yes_	/ Na		·		
Hydrophytic Vegetation Preser Hydric Soil Present?	Yes Yes		Is the Sampled Area			
Wetland Hydrology Present?	·	/ No	within a Wetland?	Yes	No	
Remarks: Cowardin Code: PEM H						
Information listed on this of wetland hydrology, hyd Supplement delineation n	drophytic vegeta	s the data collected in ation, and hydric soils	n 2015. The wetland s was confirmed usin	d was revisited ng the USACE	on 09/20/2019. Presence EMP Regional	
Wetland Hydrology Indicator	'S:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum o		neck all that annly)		Surface Soil		
✓ Surface Water (A1)	r one is required, ci	True Aquatic Plants (getated Concave Surface (B8)	
High Water Table (A2)	•	Hydrogen Sulfide Od	•	Drainage Pat		
Saturation (A3)	•	Oxidized Rhizosphere		Moss Trim Li	` '	
Water Marks (B1)		Presence of Reduced	-		Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Buri	· ·	
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	· · ·	
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquitard (D3)		
Water-Stained Leaves (BS))		Microtopographic Relief (D4)			
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes _ V No _	Depth (inches):	1"			
Water Table Present?			4"			
Saturation Present?		Depth (inches):	O" Wetland H	lydrology Presen	t? Yes 🗸 No	
(includes capillary fringe) Describe Recorded Data (streat	m gougo monitori	ag well porial photos pro	vious inspections) if ave	ilabla		
Describe Recorded Data (Silea	ım gauge, monitoni	ng well, aerial priolos, pre	vious inspections), ii ava	liable:		
Remarks:						

Samound Point W-024	Sampling	Point:	W-A24
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Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot size.	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0		= Total Cov	_	OBL species x 1 =
50% of total cover: 0	20% of	total cover	. 0	
Sapining/Shrub Stratum (1 lot 3/26.	_		0.01	FACW species x 2 = FAC species x 3 =
1. Salix nigra	5		OBL	
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				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supportin
50% of total cover: 2.5	20% of	total cover	1	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Arthraxon hispidus	15		F <u>AC</u>	Problematic Hydrophytic Vegetation (Explain)
2. Carex scoparia	15		F <u>ACW</u>	The directions of brodein and continued brodes have
3. Juncus effusus	5		F <u>ACW</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex vulpinoidea	25		<u>OBL</u>	Definitions of Four Vegetation Strata:
5. Carex lurida	10		OBL	
6. Onoclea sensibilis	5		F <u>ACW</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
7. Ludwigia alternifolia	5		FACW_	height.
8. Eupatorium perfoliatum	20		FACW_	
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:50	20% of	total cover	20	Was design. Allowed to incompare the COO 6 in
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
·	_	= Total Cov	er er	Present? Yes No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
	,			

: W-A24

Sampling Point: __

Profile Desc	ription: (Describe to	o the depti	n needed to docun	ent the ir	dicator o	r confirm	the absenc	e of indicators.)
Depth	Matrix		Redox	K Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/2	100					Loam	
4-16	Gley 1 4/10Y	100					SiLo	
	Olcy 1 4/101	100					OILO	. .
¹ Type: C=Co	oncentration, D=Deple	etion, RM=I	Reduced Matrix, MS	=Masked	Sand Gra	ins.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su		. , .		- —	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6	5)			Very Shallow Dark Surface (TF12)
	l Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L l	RR N,	Iron-Mangane		s (F12) (L	.RR N,		
	147, 148)		MLRA 136				3.	
-	leyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR	A 127, 147) u	nless disturbed or problematic.
	ayer (if observed):							
Type:			<u>—</u>					_
Depth (inc	ches):		<u></u>				Hydric So	il Present? Yes 🗸 No
Remarks:								

Wetland ID W-A24 Cowardin Code PEM



Photograph Direction South

Date: 10/13/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: __09/20/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	County: Harrison		Sampling Date: 10/13/2015	
Applicant/Owner: MVP			,		Sampling Point: W-A24-UP	
Investigator(s): S. Townsen	d, A. Hatfield, L	. Sexton Section	on, Township, Range: N/			
Landform (hillslope, terrace, et					Slone (%): 0-3	
Subregion (LRR or MLRA): L					Datum: NAV83	
Soil Map Unit Name: Gilpin-U						
						
Are climatic / hydrologic condit						
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes V No No	
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDING	GS – Attach si	te map showing san	npling point locatio	ns, transects	s, important features, etc.	
Hudrophytic Vocatation Brook	ont? Voc	No. 🗸				
Hydrophytic Vegetation Present?		No	Is the Sampled Area		•	
Wetland Hydrology Present?	Yes	No V	within a Wetland?	Yes	No	
Remarks:						
Upland						
HYDROLOGY						
Wetland Hydrology Indicato				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum		check all that apply)		Surface Soil		
Surface Water (A1)	<u> </u>	True Aquatic Plants (getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)		
Saturation (A3)			es on Living Roots (C3)	Moss Trim L		
Water Marks (B1)		Presence of Reduce	-		Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur		
Drift Deposits (B3)		Thin Muck Surface (0		-	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aer	rial Imagery (B7)			Shallow Aqu	uitard (D3)	
Water-Stained Leaves (E	39)			Microtopogra	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)	
Field Observations:						
Surface Water Present?	Yes No _	Depth (inches):				
Water Table Present?	Yes No _	Depth (inches):				
Saturation Present?	Yes No _	Depth (inches):	Wetland H	lydrology Prese	nt? Yes No	
(includes capillary fringe) Describe Recorded Data (stre	eam gauge monito	ing well aerial photos, pre	evious inspections) if ava	ilable:		
Describe Recorded Data (stre	sam gaage, monte	ing well, derial photos, pre	vious inspections), ii uvu	nabio.		
Remarks:						
No hydrology						

Sampling	Point:	W-A24-	-UP
טוווטוווטוו	т Опп.		•

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Device of
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				` ,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				
50% (1.1.)		= Total Cov	_	OBL species x 1 =
50% of total cover: 0	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')	E		FAOLI	FAC species x 3 =
1. Rosa multiflora			FACU_	
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				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	5	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: <u>2.5</u>		total cover		4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Plantago lanceolata	5		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Solidago sp.	10	-	ND	
3. Symphyotrichum ericoides	5		FACU	¹ Indicators of hydric soil and wetland hydrology must
4 Fragaria vesca	15		FACU	be present, unless disturbed or problematic.
5. Andropogon virginicus	50		FACU	Definitions of Four Vegetation Strata:
			r <u>ACU</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
40.5		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>42.5</u>	20% of	total cover	17	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover:0	20% of	total cover	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-A24-UP

Profile Desc	cription: (Describe to	o the depth	needed to docun	nent the i	ndicator	or confirn	n the ab	sence of indicators.)
Depth	Matrix			x Feature:	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ture Remarks
0-10"	7.5YR 5/4	97	7.5YR 5/6	3	С	M	Clay	/ silt
					-			
	-							
					-			
¹ Type: C=C	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Locat	tion: 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) (N	ILRA 147,	, 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				•	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			•		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat	trix (F3)	,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		⁻ 6)			Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	/lucky Mineral (S1) (L l	RR N,	Iron-Mangan		es (F12) (LRR N,		
	A 147, 148)		MLRA 13	•				
	Bleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	l Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7)	unless disturbed or problematic.
	Layer (if observed):							
, , <u> </u>	ompacted soils ar	nd rock	_					
Depth (in	ches): 10"		_				Hydri	ric Soil Present? Yes No
Remarks:	31.6							
Mottles are	possibly from fill	materiais	cast aside dur	ing road	d constr	uction th	at were	e once wetland.

Project/Site: MVP	City/County: Doddrid	lge	Sampling Date: 06/02/2015
Applicant/Owner: MVP			Sampling Point: W-K52
Investigator(s): J. Hart, D. Santillo, J. Potriki	US Section, Township, Ra	nge:_N/A	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, conv	vex, none): Concave	Slope (%): 3
Subregion (LRR or MLRA): LRRN			Datum: NAD 83
Soil Map Unit Name: Gilpin-Peabody complex			
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology _			_
Are Vegetation, Soil, or Hydrology _			
SUMMARY OF FINDINGS – Attach site			
Hydrophytic Vegetation Present? Yes	No Latte Commission		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	Is the Sampled		
Wetland Hydrology Present? Yes	No within a Wetlan	nd? Yes	No
Remarks: Cowardin Code: PEM HGM: Slope WT: RPWWN 2015 comments:Wetland plot paired with W-K52Ul roadbed. Small drainage feature also contributes fl Information listed on this form represents the data hydrophytic vegetation, and hydric soils was unabl	lows. collected in 2015. The wetland was revisite	ed on 09/18/2019. The pre	esence of wetland hydrology,
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; cl		Surface Soil	
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres on Living Roots	Drainage Pat	
Saturation (A3)		·	
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduced Iron (C4)Recent Iron Reduction in Tilled Soils (C		Water Table (C2)
Occurrent Deposits (B2)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)
Iron Deposits (B5)	<u> </u>	✓ Geomorphic	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)			phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): We	etland Hydrology Presen	t? Yes / No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections	s), if available:	
Demonto			
Remarks:			

VE

001	Absolute	Dominant	Indicator	Dominance Test worksh	eet:
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Spec	cies
				That Are OBL, FACW, or I	
			_	Total Number of Dominan	+
				Species Across All Strata:	
				Percent of Dominant Spec That Are OBL, FACW, or I	
				That Ale Obl., I ACW, of I	Αο (
			-	Prevalence Index worksl	neet:
·	0	= Total Co	vor	Total % Cover of:	Multiply by:
50% of total cover:0				OBL species	x 1 =
apling/Shrub Stratum (Plot size: 15')		1010.	·	FACW species	x 2 =
				FAC species	
·				FACU species	
				'	x 5 =
				Column Totals:	
				Joidini Iolais.	
			_	Prevalence Index =	B/A =
				Hydrophytic Vegetation	Indicators:
·				1 - Rapid Test for Hyd	drophytic Vegetation
				2 - Dominance Test is	
				3 - Prevalence Index i	4
		= Total Co	ver	4 - Morphological Ada	
50% of total cover: 0	20% of	total cove	r: <u> </u>		r on a separate sheet)
Herb Stratum (Plot size: 5')		_		Problematic Hydrophy	• • •
Carex vulpinoidea	25		OBL	Problematic Hydrophy	/iic vegetation (Explain)
Juncus effusus	20		FACW_	11	and a contract the sales are seen
Lysimachia nummularia	20		FACW	¹ Indicators of hydric soil are be present, unless disturb	
Microstigium vinimeum	10		F <u>AC</u>	Definitions of Four Vege	•
Penstomen digitalis	10		FAC	Deminions of Four Vege	tation otrata.
Eupatorium perfoliatum	5		FACW	Tree – Woody plants, excl	
Carex Iurida	5		OBL	more in diameter at breast height.	neignt (DBH), regardies
			<u> </u>	g	
·				Sapling/Shrub – Woody p	
0.			-	than 3 in. DBH and greate m) tall.	i triair or equal to 5.26 it
1.				,	
'· <u> </u>	95	= Total Co		Herb – All herbaceous (no of size, and woody plants	
50% of total cover: 47.5				or size, and woody plants	less than 5.20 it tall.
Voody Vine Stratum (Plot size: 15')	2070 01	10101 0010		Woody vine – All woody v	ines greater than 3.28 ft
(1 lot size)				height.	
		-			
					
l				Hydrophytic	
i		-		Vegetation	4/ Na
		= Total Co	_	Present? Yes _	No
50% of total cover: 0	20% of	total cove	r:0		
emarks: (Include photo numbers here or on a separate s	heet.)				
emaining cover in herb stratum is thatch					
criaining cover in herb stratain is triaten					

SOIL Sampling Point: W-K52

Profile Desc	cription: (Describe t	o the dep	th needed to docur	nent the	indicator	or confirm	the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/2	95	10YR 4/6	5	C	M/PL	SC	
8-14	5YR 6/2	92	10YR 5/8	8	С	M	CL	
						· ——		
					· 			
					· -			
					·			
¹ Type: C=C	oncentration, D=Depl	etion, RM:	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil								licators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic E _l	pipedon (A2)		Polyvalue Be	low Surfa	ace (S8) (N	ILRA 147,	148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N) d Below Dark Surface	. (111)	Redox Dark					Very Shallow Dark Surface (TF12)
	а веюw Dark Sunace ark Surface (A12)	(A11)	Depleted Date Redox Depre					Other (Explain in Remarks)
	/lucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		, , , , , , , , , , , , , , , , , , ,	,		
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 13	6, 122)	³ l	Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	8)	wetland hydrology must be present,
	l Matrix (S6)		Red Parent N	Material (F	-21) (MLR	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:			<u></u>					
Depth (in	ches):		<u></u>				Hydric S	oil Present? Yes 🗸 No
Remarks:								

Wetland Photograph Page

Wetland ID W-K52



Photograph Direction West

Date: 06/02/2015

Comments: 2015 wetland delineation.



Photograph Direction East

Date: 09/18/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: Harri	son	Sampling Date: 06/02/2015
Applicant/Owner: MVP			Sampling Point: W-K52 UP
Investigator(s): J. Hart, D. Santillo, J. Potrikus			<u> </u>
Landform (hillslope, terrace, etc.): Hillslope		•	Slope (%): 5
Subregion (LRR or MLRA): LRRN La			Datum: NAD 83
Soil Map Unit Name: Gilpin-Peabody complex		=	
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes V	o (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach site			
		<u> </u>	· · ·
	No V Is the Samp		1
Wetland Hydrology Present? Yes	. WILLIIII a VVC	tland? Yes	No
Remarks:			
Upland Upland plot paired with W-K52. Occurs on	hillslope adjacent to wetland	in an area dominated b	by upland vegetation.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic:	ators (minimum of two required)
Primary Indicators (minimum of one is required; che	ack all that apply)	Surface Soil	
	_ True Aquatic Plants (B14)		getated Concave Surface (B8)
	_ Hydrogen Sulfide Odor (C1)	Drainage Pa	
	Oxidized Rhizospheres on Living R	-	
	Presence of Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soil	· · · · · · · · · · · · · · · · · · ·	
Drift Deposits (B3)	_ Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ Other (Explain in Remarks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)		Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	itard (D3)
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:	,		
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No Vincludes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspecti	ons), if available:	
Remarks:			
No hydrology			

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

Sampling Poin	t: <u>W-K52</u>	UP
ince Test worksheet:		
of Dominant Species OBL, FACW, or FAC:	1	(A

20'	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)		Species?		Number of Dominant Species		
1. Platanus occidentalis	15		<u>FACW</u>	That Are OBL, FACW, or FAC:	1	(A)
2. Carya ovata	15		FACU_	Total Number of Dominant		
3. Robinia pseudoacacia	15		FACU_	Species Across All Strata:	5	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	20	(A/B)
6						, ,
7				Prevalence Index worksheet:		
		= Total Cov		Total % Cover of:	Multiply by:	
50% of total cover: <u>22.</u> !	5_ 20% of	total cover	<u>. 9</u>	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x		
1. Rosa multiflora	20		FACU_	FAC species x	3 =	_
2. Cornus florida	5		FACU_	FACU species x	4 =	_
3. Platanus occidentalis	5		FACW_	UPL species x	5 =	_
4. Robinia pseudoacacia	5		FACU	Column Totals: (A)	(B)
5						
6				Prevalence Index = B/A =		_
				Hydrophytic Vegetation Indica	tors:	
7	-			1 - Rapid Test for Hydrophyt	ic Vegetation	
8				2 - Dominance Test is >50%		
9	35		· ——	3 - Prevalence Index is ≤3.0	1	
500/ of total account 17 l		= Total Cover	_	4 - Morphological Adaptation	ns¹ (Provide su	porting
50% of total cover: 17.5	<u>J</u> 20% 01	total cover		data in Remarks or on a	separate sheet)
(Fior Stratum)	35	./	540 11	Problematic Hydrophytic Ve	getation ¹ (Expla	ain)
1. Microstigeum vimineum			F <u>ACU</u>			,
2. Geum canadense	10		F <u>ACU</u>	¹ Indicators of hydric soil and wet	and hydrology	must
3. Viola canadensis	10		F <u>ACU</u>	be present, unless disturbed or p		
4	-			Definitions of Four Vegetation	Strata:	
5				Tree Manda de la contrada del contrada de la contrada de la contrada del contrada de la contrada del contrada de la contrada de la contrada de la contrada del contrada de la contrada del contrada de la contrada del contrada de la contrada de la contrada del contrada	.i 2 in /7.0	\
6				Tree – Woody plants, excluding more in diameter at breast heigh		
7				height.	. (<i>– –</i>),	
8	-			Continue/Charle Manda de planta		
9				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than		
10				m) tall.		- ' (
11.				Herb – All herbaceous (non-woo	du) planta roge	ardloog
	55	= Total Cov	/er	of size, and woody plants less th		aluless
50% of total cover: 27.		total cover				
Woody Vine Stratum (Plot size: 15')	<u></u>			Woody vine – All woody vines g height.	reater than 3.2	8 ft in
1				neight.		
2						
3						
4				Hydrophytic		
5	^		·	Vegetation Present? Yes	No 🗸	
50% of total cover: 0		= Total Cover total cover	_			
50% of total cover: U		iolai cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Remaining cover in herb stratum is leaf litter

Sampling Point: W-K52 UP

SOIL

Depth	Matrix		Redox Features	T 1	2 -		ъ.	
nches)	Color (moist)	%	Color (moist) %	Type ¹ Loc			Remarks	
0-14	10YR 4/3	100			CI			
		. ———						
		. ———						
		. ——						
		letion, RM=I	Reduced Matrix, MS=Masked	Sand Grains.	² Locat	on: PL=Pore Lin		
lydric Soil I						Indicators for P		•
Histosol			Dark Surface (S7)				A10) (MLRA	
	pipedon (A2)		Polyvalue Below Surface				e Redox (A16)
Black Hi			Thin Dark Surface (S9)	•	48)	(MLRA 14		(= (a)
	n Sulfide (A4)		Loamy Gleyed Matrix (F	2)			oodplain Soils	s (F19)
	Layers (A5)		Depleted Matrix (F3)	•		(MLRA 13	v Dark Surfac	o (TE12)
	ck (A10) (LRR N) I Below Dark Surfac	ο (Δ11)	Redox Dark Surface (F6Depleted Dark Surface (in in Remark	. ,
	rk Surface (A12)	5 (A11)	Redox Depressions (F8)	,		Other (Expla	IIII III INGIIIAIN	3)
	lucky Mineral (S1) (L	RR N.	Iron-Manganese Masse		J.			
	147, 148)		MLRA 136)	5 (. 12) (=:::::	•,			
	leyed Matrix (S4)		Umbric Surface (F13) (N	ILRA 136. 122	2)	³ Indicators of h	vdrophytic ve	aetation and
	edox (S5)		Piedmont Floodplain So			wetland hydro		-
-	Matrix (S6)		Red Parent Material (F2			unless disturb		
	ayer (if observed):		· ·				·	
Type:								
Depth (inc	ches):				Hydri	c Soil Present?	Yes	_ No _✔
Remarks:					,			
lo hydric ii	ndicators							
io riyario ii	laloatoro							

Project/Site: MVP	City/County: Lewis	Sampling Date: 06/05/2015
Applicant/Owner: MVP		State: WV Sampling Point: W-J40
• •	Katsiaficas Section, Township, Range: N	
	m Local relief (concave, convex, no	
	Lat: 39.167855 Long: -80	
Soil Map Unit Name: Udifluvents and Fluvac		NWI classification: None
•	ical for this time of year? Yes No	
	-	
	zsignificantly disturbed? Are "Norma	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach si		explain any answers in Remarks.) ons, transects, important features, etc.
		,,,,, por
	Is the Sampled Area	<u>,</u>
Hydric Soil Present? Yes _	within a wetland?	Yes No
Wetland Hydrology Present? Yes _	No	
Remarks: Cowardin Code: PEM		
HGM: Riverine		
WT: RPWWD		
W-J40 is floodplain of Kincheloe Creek		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)
		Surface Surfaces (B8)
Surface Water (A1) High Water Table (A2)	True Aquatic Plants (B14)Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Nydrogen Suinde Cdor (C1)Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	✓ Depth (inches):	
	Depth (inches): 0 Wetland I	Hydrology Present? Yes 🔽 No
(includes capillary fringe)	ring well, aerial photos, previous inspections), if ava	ailabla:
Describe Recorded Data (Stream gauge, monto	ing well, aerial priotos, previous inspections), il avo	allable.
Remarks:		

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

30'

Sapling/Shrub Stratum (Plot size: 15')

3. Carex vulpinoidea

5. Solanum carolinense

10._____

Woody Vine Stratum (Plot size: _______)

1. Apios americana

Tree Stratum (Plot size: __

Herb Stratum (Plot size: _ 1. Stellaria graminea

6. Persecaria sagittata

8. Dichanthelium clandestinum

2. Carex lurida

4. Poa palustris

7. Rumex crispis

___)

50% of total cover: ___0

50% of total cover: 58.5 20% of total cover: 23.4

50% of total cover: 7.5 20% of total cover: 3

50% of total cover: ___0 __ 20% of total cover:__0

mes of plants.	Sampling Point: W-J40
Absolute Dominant Indicator	Dominance Test worksheet:
% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
	Total Number of Dominant Species Across All Strata: 4 (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:
	Prevalence Index worksheet:
0 - Total Cover	
= Total Cover 20% of total cover: 0	OBL species x 1 =
_ 20 % of total cover	FACW species x 2 =
	FAC species x 3 =
	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (B)
	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.0 ¹
0 = Total Cover	4 - Morphological Adaptations ¹ (Provide supporting
_ 20% of total cover:0	data in Remarks or on a separate sheet)
5 FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
1,100	
40	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
25 ✓ FACW	Definitions of Four Vegetation Strata:
5 FACU	Definitions of Four Vegetation Strata.
10 FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
2 FAC	more in diameter at breast height (DBH), regardless of height.
5 FAC	
· · ·	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
	m) tall.
117 = Total Cover	 Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
20% of total cover: 23.4	
	Woody vine – All woody vines greater than 3.28 ft in height.
15 V FACW	nogh.
	•
	Hydrophytic
15 = Total Cover	Vegetation Present? Yes ✔ No
20% of total cover: 3	

Remarks: (Include photo numbers here or on a separate sheet.)

W-J40

menaet	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture		Remarks	
inches) 0-6	10 YR 4/2	95	10 YR 4/6	5	C	PL	C/L		INCINAINS	
6-12	10 YR 5/2	90	10YR 5/8	10	<u>C</u>	M/PL	C/L			
12-16	10 YR 6/2	60	10YR 5/8	40	<u>C</u>	<u>M</u>	C/L			
-										
/pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ns.	² Location: Pl	_=Pore Lini	ng, M=Matrix.	
	ndicators:								roblematic Hy	dric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)					A10) (MLRA 1 -	47)
	ipedon (A2)		Polyvalue Be				148) C		Redox (A16)	
Black His			Thin Dark S			17, 148)	_	(MLRA 14		(= , o)
	n Sulfide (A4)		Loamy Gley		-2)		_ P		oodplain Soils	(F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Ma		3)		\/	MLRA 13)	, 147) / Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Nedox Bark Depleted Da						in in Remarks)	
	rk Surface (A12)	(,	Redox Depre		. ,				,	
	ucky Mineral (S1) (L	RR N,	Iron-Mangar			RR N,				
	147, 148)		MLRA 13	-						
	leyed Matrix (S4)		Umbric Surfa						ydrophytic veg	
	edox (S5)		Piedmont Flo					-	logy must be p	
	Matrix (S6) ayer (if observed):		Red Parent l	Material (F2	21) (MLRA	127, 147) un	ess disturb	ed or problema	atic.
Type: No										
							Hydric Soil	Dragant?	Yes_	No
Depth (inc	nes):						nyaric Soil	Present?	res_ 	NO
emarks:										



Photograph Direction SE

Comments:			

Project/Site: MVP		City/C	county: Lewis		Sampling Date: 06/05/2015	
Applicant/Owner: MVP			• •		Sampling Point: W-J40-UP1	
Investigator(s): P. Johnson, C. W	/eber, N. Kats				_ ,	
Landform (hillslope, terrace, etc.): To			· · · · · ·		Slope (%): 0-3	
Subregion (LRR or MLRA): LRRN					Datum: NAD 83	
Soil Map Unit Name: Udifluvents a			2011g			
Are climatic / hydrologic conditions or	the site typical fo					
Are Vegetation, Soil,		· · · · · · · · · · · · · · · · · · ·				
Are Vegetation, Soil,				explain any answe		
SUMMARY OF FINDINGS –						
			.p9 po	,	, p	
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		. 4	
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes		within a Wetland?	Yes	No	
Remarks:						
LIVEROLOGY						
HYDROLOGY Westland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one	is required; check	k all that apply)			tors (minimum of two required)	
	•		D14)	Surface Soil		
Surface Water (A1) High Water Table (A2)		True Aquatic Plants (Hydrogen Sulfide Od		Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)		
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li		
Water Marks (B1)		Presence of Reduced	= : :		Water Table (C2)	
Sediment Deposits (B2)	 -	Recent Iron Reductio	, ,	Crayfish Burr		
Drift Deposits (B3)		Thin Muck Surface (C	C7)	Saturation Vi	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or St	tressed Plants (D1)	
Iron Deposits (B5)				Geomorphic		
Inundation Visible on Aerial Ima	ıgery (B7)			Shallow Aqui		
Water-Stained Leaves (B9)					phic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations: Surface Water Present? Yes	No. 🗸	Depth (inches):				
		Depth (inches):				
		Depth (inches):		lydrology Presen	t? Yes No 🗸	
(includes capillary fringe)		, , ,			103 110	
Describe Recorded Data (stream ga	uge, monitoring v	vell, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						

Sampling	Point: W-J40-UP1
----------	------------------

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot Size)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				Description of Description of Organiza
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
6				
7			·	Prevalence Index worksheet:
	0 .	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 0		total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	_			FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				(1)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cov	er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				
1. Phleum pratense	30		FACU_	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Glechoma hederacea	25	✓	F <u>ACU</u>	
3. Alium canadense	10		FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Solanum carolinense	5		FACU	be present, unless disturbed or problematic.
5. Vicia americana	5		FACU	Definitions of Four Vegetation Strata:
6. Poa pratense	20		FACU_	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Dactylis glomerata	15		FACU_	more in diameter at breast height (DBH), regardless of
8 Stellaria graminea	10			height.
<u> </u>			F <u>ACU</u>	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
	120	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 60	20% of	total cover:	24	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Hydrophytia
5.				Hydrophytic Vegetation
	0 .	= Total Cov	er	Present? Yes No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate sl	neet.)			
(,	,			

SOIL Sampling Point: W-J40-UP1

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the abse	nce of indicato	ors.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remarks	_
0-4	10YR 3/3	100					C/L			
4-16	10YR 5/4	100					C/L			
										_
							-			-
										_
-										-
										_
¹Type: C=Co	oncentration, D=Depl	etion RM-	Reduced Matrix MS	S-Masked	Sand Gra	nins	² Location	n: PL=Pore Lini	ng M-Matrix	_
Hydric Soil		Ction, rtivi=	reduced Matrix, Me	J-IVIASKCA	Oana Ore		In	dicators for Pr	roblematic Hydric Soils ³ :	
Histosol			Dark Surface	(S7)					A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Be		ce (S8) (M	LRA 147.	148)		e Redox (A16)	
Black Hi			Thin Dark Su					(MLRA 14		
	n Sulfide (A4)		Loamy Gleye			. ,		•	oodplain Soils (F19)	
Stratified	l Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
	ick (A10) (LRR N)		Redox Dark						/ Dark Surface (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar					_ Other (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	_RR N,				
	147, 148) sleyed Matrix (S4)		MLRA 13 Umbric Surfa		MI DA 12	6 122\		3Indicators of by	ydrophytic vegetation and	
	edox (S5)		Piedmont Flo						logy must be present,	
-	Matrix (S6)		Red Parent N					-	ed or problematic.	
	_ayer (if observed):		Roar aroner	natorial (i	/ (,	arricoo diotarb	od or problematic.	
Type: No										
Depth (inc							Hydric	Soil Present?	Yes No 🗸	
	Jiles)						Tiyunc	John Fresent:	16510	_
Remarks:										

Project/Site: MVP	City/Cou	_{inty:} Lewis		Sampling Date: 11/21/15		
Applicant/Owner: MVP				Sampling Point: W-VV5		
Investigator(s): J. McGuirk, K. Pulver						
Landform (hillslope, terrace, etc.): Valley		Slone (%)· 2-4				
Subregion (LRR or MLRA): LRRN				Datum: NAD 83		
Soil Map Unit Name: Vandalia silt loam, 25 to 35						
•				•		
Are climatic / hydrologic conditions on the site typical	•					
Are Vegetation, Soil, or Hydrology _			ircumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology _	naturally problemation	c? (If needed, exp	olain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site	map showing samp	ling point locations	s, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	/ No Is					
Hydric Soil Present? Yes	/ No	the Sampled Area	Yes 🗸	Ma		
Wetland Hydrology Present? Yes	w	vithin a Wetland?	Yes	No		
Remarks: Cowardin Code: PEM	HGM: Riverine	Water Type: RF	PWWD			
Sometani Sodo. I EM	110111111111111111111111111111111111111	1146. 1766.14	******			
LIVEROLOGY						
HYDROLOGY Western Hydrology Indicators			oondon/Indioo	toro (minimum of two required)		
Wetland Hydrology Indicators:	anck all that apply)	<u> </u>		tors (minimum of two required)		
Primary Indicators (minimum of one is required; ch	4)	_ Surface Soil	getated Concave Surface (B8)			
Surface Water (A1) High Water Table (A2)	True Aquatic Plants (B1Hydrogen Sulfide Odor		Sparsely veg Drainage Pat			
	Trydrogen Sumde OdorOxidized Rhizospheres	-	_ Drainage Fat _ Moss Trim Li			
, , ,	Presence of Reduced In	• • • •		Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction i	. ,	Crayfish Burr			
Drift Deposits (B3)	Thin Muck Surface (C7)			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remai			ressed Plants (D1)		
Iron Deposits (B5)			Geomorphic	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		_	_ Shallow Aqui	tard (D3)		
Water-Stained Leaves (B9)		_	_ Microtopogra	phic Relief (D4)		
Aquatic Fauna (B13)		<u>~</u>	FAC-Neutral	Test (D5)		
Field Observations:						
Surface Water Present? Yes No	Depth (inches):	<u> </u>				
	Depth (inches):					
	Depth (inches):	Wetland Hyd	drology Presen	t? Yes V No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitorir	ng well, aerial photos, previc	ous inspections), if availal	ble:			
Remarks:						

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

% Cover Species? Status

= Total Cover

10 **✓** OBL

0 = 10 at Cover50% of total cover: 0 = 20% of total cover: 0 = 20%

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: __

1. Salix nigra

	Sampling F	oin	ıt: <u>\</u>	N-VV5				
	Dominance Test worksheet:							
1	Number of Dominant Species That Are OBL, FACW, or FAC			4	(A)			
	Total Number of Dominant Species Across All Strata:	_		4	(B)			
1	Percent of Dominant Species That Are OBL, FACW, or FAC): _		100	(A/B)			
-	Prevalence Index worksheet	t:						
-	Total % Cover of:		Mu	ltiply by:				
	OBL species	x 1	= _		_			
	FACW species	x 2	= _		_			
	FAC species	х 3	= _		_			
	FACU species	x 4	= _		_			
	UPL species	x 5	= _		_			
	Column Totals:	(A)	_		_ (B)			
_	Prevalence Index = B/A	· = _			_			
-	Hydrophytic Vegetation Indi	cato	rs:	1				
-	1 - Rapid Test for Hydrop	hytic	: Ve	egetation				
-	✓ 2 - Dominance Test is >50%							
-	3 - Prevalence Index is ≤3.0 ¹							
	4 - Morphological Adaptat	tions	¹ (F	Provide sup	porting			
-	data in Remarks or on	a se	pa	rate sheet)				
	Problematic Hydrophytic Vegetation ¹ (Explain)							

9				3 - Prevalence Index is ≤3.0 ¹
		= Total Co		3 - Prevalence index is \$3.0 4 - Morphological Adaptations ¹ (Provide supporti
50% of total cover: 5	_ 20% o	of total cove	r: <u> 2 </u>	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				·
1. Scirpus atrovirens	40		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Verbesina alternifolia	15	✓	FAC	
3. Juncus effusus	15	~	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_{4.} Typha latifolia	5		OBL	Definitions of Four Vegetation Strata:
5. Microstegium vimineum	10		FAC	Definitions of Four Vegetation Strata.
6. Dicanthelium clandestinum	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
7. Phalaris arundinacea	5		FACW	more in diameter at breast height (DBH), regardless of height.
8. Epilobium coloratum	5		FACW	
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardles
_	105	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>52.5</u> Woody Vine Stratum (Plot size: <u>15'</u>)	_ 20% o	of total cove	r: <u>21</u>	Woody vine – All woody vines greater than 3.28 ft in height.
1				noight
2		_		
3				
4				Hydrophytic
_				Tiyaropiiyao

50% of total cover: ___0

0

= Total Cover

20% of total cover:____

Defini	tions	of	Four	Vegetation	Strata:	
_						(7 0)

ytic Vegetation Present?

Remarks: (Include photo numbers here or on a separate sheet.)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. CL	Depth	ription: (Describe t Matrix		Redo	x Features				·	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coation: PL=Pore Lining, M=Matrix.	(inches)				·			-	Remarks	
ydric Soil Indicators: Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) (LRR N) Sandy Gleyed Matrix (S4) Sandy Redox (S5) MLRA 147, 148) MLRA 136, Sandy Redox (S5) Piedmont Floodplain Soils (F19) Muck (A10) (LRR N) Redox Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Redox (S5) Piedmont Floodplain Soils (F19) MLRA 136, Sandy Gleyed Matrix (S4) Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes V No	0-12	10YR 4/1	80	7.5YR 4/6	<u>10</u> <u>C</u>	<u> </u>	CL			
ydric Soil Indicators: Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) (LRR N) Sandy Gleyed Matrix (S4) Sandy Redox (S5) MLRA 147, 148) MLRA 136, Sandy Redox (S5) Piedmont Floodplain Soils (F19) Muck (A10) (LRR N) Redox Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Redox (S5) Piedmont Floodplain Soils (F19) MLRA 136, Sandy Gleyed Matrix (S4) Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes V No										
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Histosol (A1)			cuon, ruvi–i	toddood Matrix, Mc	z-maskea ee	ina Oraino.				dric Soils ³ :
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 Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches): Depth (inches): Hydric Soil Present? Yes No	-			Dark Surface	(S7)					
Black Histic (A3)						S8) (MLRA 147		•	, .	,
						· , •				
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) _ Stripped Matrix (S6) _ Stripped Matrix (S6) _ Stripped Matrix (S6) _ Stripped Matrix (S6) _ Depleted Matrix (F3) _ Cother (Explain in Remarks) _ Other (Explain in Remarks) _		, ,			. , .		Pi	•		F19)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Estrictive Layer (if observed): Type: Depth (inches): Depth (in		, ,								,
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophytic vegetation and Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6)		Ve	ery Shallow	Dark Surface	(TF12)
Sandy Mucky Mineral (S1) (LRR N,	Depleted	l Below Dark Surface	(A11)	Depleted Dar	k Surface (F7	7)	0	ther (Explair	n in Remarks)	
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Type: _ Depth (inches): _ Hydric Soil Present? Yes No										
Sandy Gleyed Matrix (S4)			RR N,			F12) (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. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No					•		•			
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:				Red Parent N	faterial (F21)	(MLRA 127, 14	-7) unl	ess disturbe	d or problema	atic.
Depth (inches): No		.ayer (if observed):								
emarks:	Depth (ind	ches):					Hydric Soil	Present?	Yes	No
	Remarks:									



Photograph Direction SSW

Comments:		

Project/Site: MVP		c	City/County: Lewi	Sampling Date: 05/20/2015								
Applicant/Owner: MVP				State: WV				Sampling	Point: W-I25, vv5-UP			
Investigator(s): G.Stevens, S.Townsend, S.Therkildson Section, Township, Range: N/A												
Landform (hillslope, terrace, e						_			Slope (%): 5-10			
Subregion (LRR or MLRA):												
Soil Map Unit Name: Vanda												
Are climatic / hydrologic cond					_							
Are Vegetation, Soil _				-					s No			
-			_	-								
Are Vegetation, Soil _		-					explain any answe		•			
SUMMARY OF FINDIN	1GS – At	tach Site	map sr	nowing :	sampling poir	it locatio	ons, transects	s, importar	it reatures, etc.			
Hydrophytic Vegetation Present? Yes			No_		Is the Samp	oled Area						
Hydric Soil Present?			No_		within a We		Yes	No	<u> </u>			
Wetland Hydrology Present Remarks:	?	Yes	No_									
HYDROLOGY												
Wetland Hydrology Indica	tors:						Secondary Indica	ators (minimu	m of two required)			
Primary Indicators (minimur	n of one is	required; ch	eck all tha	t apply)			Surface Soil Cracks (B6)					
Surface Water (A1)		=		quatic Pla			Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	_ Hydrogen Sulfide Odor (C1)				Drainage Patterns (B10)							
Saturation (A3)			Oxidized Rhizospheres on Living Roots (C3)				Moss Trim Lines (B16)					
Water Marks (B1)		-	Presence of Reduced Iron (C4)				Dry-Season Water Table (C2)					
Sediment Deposits (B2 Drift Deposits (B3)	1	=	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)				Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)		_	Thin Muck Surface (C7) Other (Explain in Remarks)				Saturation visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		_				Geomorphic Position (D2)						
Inundation Visible on A	erial Image	ry (B7)	· · · · · · · · · · · · · · · · · · ·				Shallow Aquitard (D3)					
Water-Stained Leaves	(B9)		Microtop			Microtopogr	aphic Relief ([D4)				
Aquatic Fauna (B13)							FAC-Neutra	l Test (D5)				
Field Observations:			_									
Surface Water Present?		No										
Water Table Present?					<u> </u>							
Saturation Present? (includes capillary fringe)	Yes	No	Depth	ı (inches):	:	Wetland H	Hydrology Prese	nt? Yes	No			
Describe Recorded Data (st	ream gaug	e, monitorin	g well, ae	rial photos	s, previous inspecti	ions), if ava	nilable:					
Remarks:												

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

	Absolute	Dominant	Indicator	Dominance Test workshee	·	
<u>Tree Stratum</u> (Plot size:30')		Species?		Number of Dominant Specie		
_{1.} Picea rubens	50		FACU	That Are OBL, FACW, or FA		(A)
{2.} Fagus grandifolia	15		FACU	Total Number of Dominant		
3				Species Across All Strata:	4*	(B)
4				Device of Device of Occasion	_	
5				Percent of Dominant Species That Are OBL, FACW, or FA		(A/B)
6					'	(/
7				Prevalence Index workshe		
	65	= Total Co	ver	Total % Cover of:		
50% of total cover: <u>3</u>	2.5 20% of	total cover	: <u>13</u>	OBL species		
Sapling/Shrub Stratum (Plot size: 15')				FACW species		
_{1.} Quercus montana	5		UPL	FAC species		
_{2.} Fraxinus pennsylvanica	5		FACW	FACU species	x 4 =	_
_{3.} Dirca palustris	25		FAC	UPL species	x 5 =	_
4				Column Totals:	_ (A)	(B)
5			-	December of Labor D/		
6				Prevalence Index = B/	·-	_
7				Hydrophytic Vegetation Inc		
8				1 - Rapid Test for Hydro		
9				2 - Dominance Test is >		
	0.5	= Total Co	ver	3 - Prevalence Index is s		
50% of total cover: 1			_	4 - Morphological Adapt		
Herb Stratum (Plot size: 5')				data in Remarks or o	•	
1. Achillea sp.	15	~	ND	Problematic Hydrophytic	: Vegetation¹ (Expla	ıin)
Potentilla simplex	10		F <u>ACU</u>			
3. Plantago lanceolata			UPL	¹ Indicators of hydric soil and		must
4. Rubus allegheniensis		-	FACU	be present, unless disturbed	-	
5. Dactylis glomerata		~	FACU	Definitions of Four Vegetat	ion Strata:	
_{6.} Poa sp.			ND	Tree - Woody plants, exclud		
7 Poa sp.	50	~	ND	more in diameter at breast he height.	eight (DBH), regard	less of
			IND	neignt.		
8 o				Sapling/Shrub – Woody pla		
9				than 3 in. DBH and greater to m) tall.	nan or equal to 3.28	3 ft (1
10		-		my tan.		
11	115	T-1-1-0		Herb – All herbaceous (non- of size, and woody plants les		ardless
50% of total cover: 5		= Total Co		or size, and woody plants les	,5 man 5.20 m lan.	
Woody Vine Stratum (Plot size: 15')	2070 01	total cover		Woody vine – All woody vin	es greater than 3.28	3 ft in
				height.		
1		-				
2						
3		-				
4				Hydrophytic		
5	^			Vegetation Present? Yes	No 🗸	
F00/ - ((-) -		= Total Co	_	Tresent: res		
	<u> </u>	total cover	:			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
ND - Not Determined						
Vegetation not ID'd to species level not inclu	uded in dom	ninance t	est.			
·						

Sampling Point: W-I25, vv5-UP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redox	k Features							
(inches)	Color (moist)	%	Color (moist)	%T	ype ¹	Loc ²	<u>Texture</u>		Remarks	3	
0-1								(Organic N	/latter	
1-8	10YR 4/4	100					SiL		Refus	اد	
1-0	10111 4/4	100					OIL		IXGIUS	ai	
					 •						
			-					-			
					 -						
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked Sa	nd Grai	ns.	² Location: Pl				
Hydric Soil	Indicators:						Indica	itors for Pro	oblematic I	Hydric Soil	ls³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	10) (MLRA	147)	
Histic Ep	oipedon (A2)		Polyvalue Be	low Surface (S8) (ML	-RA 147,	148) C	oast Prairie	Redox (A16	3)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (M	LRA 14	17, 148)		(MLRA 147	', 148)		
	en Sulfide (A4)		Loamy Gleye				Pi	iedmont Floo		s (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 136		, ,	
2 cm Mu	ick (A10) (LRR N)		Redox Dark S				Ve	ery Shallow		ce (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar		')		_ 0	ther (Explair	n in Remark	(s)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		F12) (L	RR N,					
	A 147, 148)		MLRA 130		, ,						
	Gleyed Matrix (S4)		Umbric Surfa		RA 136	, 122)	³ Indi	cators of hy	drophytic v	egetation a	nd
	Redox (S5)		Piedmont Flo					tland hydrolo		-	
	Matrix (S6)		Red Parent M					ess disturbe			
	Layer (if observed):			,	•		ĺ		•		
	oot mass										
			_				Unadaia Cail	D	V	Na (/
Depth (inc	cnes): <u> </u>		_				Hydric Soil	Present?	Yes	No'	
Remarks:											

Project/Site: MVP	City/County: Lewis	Sampling Date: 05/05/2016								
Applicant/Owner: MVP		tate: WV Sampling Point: W-IJ23								
Investigator(s): E. Foster, J. Niergarth, B. Schrotenboer Section, Township, Range: N/A										
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 1										
Subregion (LRR or MLRA): LRR N Lat: 39.131095 Long: -80.572134 Datum: NAD 83 Soil Map Unit Name: Lh: Lobdell-Holly Silt Loams NWI classification: None										
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)										
	significantly disturbed? Are "Normal Circ	cumstances" present? Yes No								
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain	ain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area									
Hydric Soil Present? Yes	No.	Yes V No								
Wetland Hydrology Present? Yes	No within a Wetland?	res No								
Remarks: Cowardin Code: PEM	HGM: Slope Water Type: RP	WWN								
Pasture. Impacted by grazing and	d mowing. Adjacent but not abutting S-I69.									
HYDROLOGY										
Wetland Hydrology Indicators:		condary Indicators (minimum of two required)								
Primary Indicators (minimum of one is required; of		Surface Soil Cracks (B6)Sparsely Vegetated Concave Surface (B8)								
Surface Water (A1) High Water Table (A2)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely vegetated Concave Surface (Bo) Drainage Patterns (B10)								
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	_ Drainage Patterns (B10) _ Moss Trim Lines (B16)								
Water Marks (B1)	Presence of Reduced Iron (C4)									
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)								
Occurrent Deposits (B2)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)								
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)								
Iron Deposits (B5)		Geomorphic Position (D2)								
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)								
Water-Stained Leaves (B9)		Microtopographic Relief (D4)								
Aquatic Fauna (B13)	<u>~</u>	FAC-Neutral Test (D5)								
Field Observations:		· · · · · · · · · · · · · · · · · · ·								
Surface Water Present? Yes No _	Depth (inches):									
Water Table Present? Yes No _	Depth (inches): 9									
<u> </u>	_	rology Present? Yes No								
(includes capillary fringe)										
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if available	ie:								
Remarks:										
Heavy rains past 24 hours.										

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

30'

Tree Stratum (Plot size:

Sampling Poi	nt: W-IJ23	
Dominance Test worksheet:		
Number of Dominant Species 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:	

1		-		That Are OBL, FACW, or FA	AC: <u>-</u>	_ (A)
2				Total Number of Dominant	•	
3				Species Across All Strata:	2	_ (B)
4			-	Percent of Dominant Specie	es	
5				That Are OBL, FACW, or FA	AC: 100	_ (A/B)
6				Prevalence Index workshe	et.	
7				Total % Cover of:		
500/ // /		: Total Cov	_	OBL species		
50% of total cover: 0	20% of t	otal cover	:0	FACW species		
Sapling/Shrub Stratum (Plot size: 15')				FAC species		
1				FACU species		
2				UPL species		
3				Column Totals:		
4				Column Totals.	_ (A)	(D)
5				Prevalence Index = B	/A =	
6				Hydrophytic Vegetation In		
7				1 - Rapid Test for Hydro		
8				2 - Dominance Test is >		
9				3 - Prevalence Index is	≤3.0 ¹	
		Total Cov		4 - Morphological Adap		pporting
50% of total cover: 0	20% of t	otal cover	:	data in Remarks or o		
(i lot size)	15		0.51	Problematic Hydrophyti	c Vegetation ¹ (Expl	ain)
1. Eleocharis obtusa	45		OBL		0 \ 1	,
2. Carex Iurida	15		OBL	¹ Indicators of hydric soil and	I wetland hydrology	must
3. Anthoxanthum odoratum			FACU	be present, unless disturbed		
4. Scirpus atrovirens	5		OBL	Definitions of Four Vegeta	tion Strata:	
5. Juncus effusus	12		FACW_	Tree – Woody plants, exclu	ding vinos 2 in /7/	S cm) o
6. Carex sp.	5		ND	more in diameter at breast h		
7. Lysimachia nummularia	12		FACW_	height.		
8				Sapling/Shrub – Woody pla	ants excluding vine	s less
9				than 3 in. DBH and greater		
10				m) tall.		
11				Herb - All herbaceous (non	-woody) plants, reg	ardless
	<u> 104</u> =	Total Cov	/er	of size, and woody plants le	ss than 3.28 ft tall.	
50% of total cover: <u>52</u>	20% of t	otal cover	: 20.8	Woody vine – All woody vir	nes greater than 3.2	28 ft in
Woody Vine Stratum (Plot size:15')				height.		
1						
2						
3						
4				Hydrophytic		
5		-		Vegetation		
		Total Cov		Present? Yes	No	
50% of total cover:0	20% of t	otal cover	:0			

Absolute Dominant Indicator

% Cover Species? Status

Remarks: (Include photo numbers here or on a separate sheet.)

Unidentified Carex sp listed as not determined and not used in dominance test.

Sampling Point: W-IJ23

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-2	10yr 4/2	70	7.5yr 4/6	30_	С	M/PL	fine SL			
2-18	10yr 4/2	70	7.5yr 4/6	30_	С	M/PL	SCL			
18-20	10yr 4/3	90	10yr 4/6	10	С	M	SL			
			_		-			-		
					-			-		
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.			ing, M=Matrix.	
Hydric Soil	Indicators:						Indica	ators for P	roblematic Hy	dric Soils³:
Histosol			Dark Surface					,	A10) (MLRA 1	47)
	oipedon (A2)		Polyvalue Be				148) C		e Redox (A16)	
Black Hi	stic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 148)	D	(MLRA 14	oodplain Soils	(F10)
	d Layers (A5)		Depleted Mat		1 2)		'	(MLRA 13		(1 19)
	ick (A10) (LRR N)		Redox Dark S	, ,	6)		V		v Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar				0	ther (Expla	in in Remarks)
	ark Surface (A12)		Redox Depre							
	Mucky Mineral (S1) (L \ 147, 148)	RR N,	Iron-Mangane MLRA 136		es (F12) (LRR N,				
	Gleyed Matrix (S4)		Umbric Surfa		MIRA 13	6, 122)	³ Ind	icators of h	ydrophytic veg	etation and
	Redox (S5)		Piedmont Flo						ology must be p	
	Matrix (S6)		Red Parent M					-	ed or problem	
Restrictive I	Layer (if observed):									
Type:			<u>—</u>							
Depth (inc	ches):						Hydric Soil	Present?	Yes 🗸	No
Remarks:										



Photograph Direction NE

Comments:		

Project/Site: MVP	City/County	_{/:} Lewis		Sampling Date: 05/05/2016		
Applicant/Owner: MVP				_ Sampling Point: W-IJ23-UP		
Investigator(s): E. Foster, J. Niergarth, B				_ , , ,		
Landform (hillslope, terrace, etc.): Floodplai				Slope (%): 1		
Subregion (LRR or MLRA): LRR N						
Soil Map Unit Name: Lh: Lobdell-Holly Silt Lo		Long				
Are climatic / hydrologic conditions on the site t						
Are Vegetation, Soil, or Hydrold						
Are Vegetation, Soil, or Hydrolo						
SUMMARY OF FINDINGS – Attach			· ·			
				•		
	No.	ne Sampled Area				
	No with	nin a Wetland?	Yes	No		
Damaria	L	Water Type				
Cowardin Code. UPLANL	HGIVI:	Water Type:				
Pasture.						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	econdary Indicat	tors (minimum of two required)		
Primary Indicators (minimum of one is require	d; check all that apply)		_ Surface Soil (Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	_	_ Sparsely Veg	etated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on	Living Roots (C3)	_ Moss Trim Lir	nes (B16)		
Water Marks (B1)	Presence of Reduced Iron	(C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in T	illed Soils (C6)	_ Crayfish Burre	ows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	_	_ Saturation Vis	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks	_	_ Stunted or St	ressed Plants (D1)		
Iron Deposits (B5)		_	_ Geomorphic I	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		_	_ Shallow Aquit	tard (D3)		
Water-Stained Leaves (B9)		_		phic Relief (D4)		
Aquatic Fauna (B13)		_	_ FAC-Neutral	Test (D5)		
Field Observations:						
Surface Water Present? Yes No	Depth (inches):	-				
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	_ Wetland Hyd	Irology Present	t? Yes No		
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous	inspections), if availal	ble:			
, , ,						
Remarks:						
Heavy rain past 24 hours						

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

Sampling Point: W-IJ23-UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tree otratum (Frot Size.	% Cover			Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	4	(B)
4						(-)
				Percent of Dominant Species	50	
5				That Are OBL, FACW, or FAC:	50	(A/B)
6				Prevalence Index worksheet:		
7					N.A. alatina la colla con	
		= Total Cov		Total % Cover of:		
50% of total cover:0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
				FACU species x	4 =	
2				UPL species x		
3						
4		-		Column Totals: (A	.)	_ (B)
5				Prevalence Index = B/A =		
6						_
7				Hydrophytic Vegetation Indica		
				1 - Rapid Test for Hydrophyt		
8		-		2 - Dominance Test is >50%)	
9	_			3 - Prevalence Index is ≤3.0	1	
0		= Total Cov		4 - Morphological Adaptation	ns¹ (Provide sup	porting
50% of total cover:0_	20% of	total cover	: 0	data in Remarks or on a		
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Ve		in)
1. Taraxacum officinale	10		F <u>ACU</u>	Problematic Hydrophytic vet	getation (Expla	111)
2. Ranunculus acris	15	✓	FAC			
3. Anthoxanthum odoratum	20	~	FACU	¹ Indicators of hydric soil and wetl		nust
4. Potentilla simplex	5		FACU	be present, unless disturbed or p		
5. Viola sororia		-	FAC	Definitions of Four Vegetation	Strata:	
6. Trifolium repens	20		FACU	Tree – Woody plants, excluding	vines, 3 in. (7.6	cm) or
7. Eleocharis obtusa	15		OBL	more in diameter at breast heigh	t (DBH), regardl	ess of
• • •			OBL	height.		
8				Sapling/Shrub – Woody plants,	excluding vines	less
9				than 3 in. DBH and greater than		
10				m) tall.		
11.				Harb All barbassas (non was	du planta raga	rdlaga
	90	= Total Cov	/or	Herb – All herbaceous (non-woo of size, and woody plants less th		raiess
50% of total cover: 45		total cover				
Woody Vine Stratum (Plot size: 15')	2070 0.	10101 00101		Woody vine – All woody vines g	reater than 3.28	ft in
				height.		
1						
2						
3						
4				Usalranhistia		
5				Hydrophytic Vegetation		
	_	= Total Cov	/or	Present? Yes	No	
50% of total cover: 0		total cover	_			
Remarks: (Include photo numbers here or on a separate sl			•			
nemains. (include prioto numbers here of on a separate si	ieet.)					

Sampling Point: W-IJ23-UP

	cription: (Describe	to the depth				r or confirn	n the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature:	s Type ¹	Loc ²	Texture		Remark	KS
0-2	7.5yr 3/3	100					SiLo			
2-11	7.5yr 4/3	100		-	-		SaCILo			
11-17	7.5yr 4/2	90	7.5yr4/6	10	С		SaCILo			
17-20	10yr 4/3	98	10yr 4/6	2	C		SaLo			
17-20	10yl 4/3	90	10y1 4/0		<u> </u>	IVI	Salu			
		· -								
¹Type: C=Co	oncentration, D=Depl	letion RM=I	Reduced Matrix MS	S=Masked	I Sand G	irains	² Location: F	PI =Pore I in	ing M=Matr	rix
Hydric Soil I		Cuon, ruvi–i	toddoca Widthx, Wic	J-Maskec	ouna c	raino.				Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (-
	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (MLRA 147,		Coast Prairie		
Black His			Thin Dark Su			147, 148)		(MLRA 14		
	en Sulfide (A4)		Loamy Gleye	,	F2)		F	Piedmont Flo		ils (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted Mar		.e)		,	MLRA 13 ery Shallov		200 (TE12)
	d Below Dark Surface	e (A11)	Depleted Dark	•				Other (Expla		. ,
	ark Surface (A12)	. (,)	Redox Depre					zo. (=/.p.o.		,
	lucky Mineral (S1) (L	.RR N,	Iron-Mangan			(LRR N,				
	A 147, 148)		MLRA 13	-			2			
	Gleyed Matrix (S4)		Umbric Surfa							vegetation and
	Redox (S5)		Piedmont Flo					etland hydro		
	Matrix (S6) Layer (if observed):		Red Parent N	nateriai (F	21) (IVIL	RA 127, 14	<i>t</i>) ur	nless disturb	ea or proble	ematic.
Type:	ayer (ii observeu).									
Depth (inc	ches).						Hydric Soi	I Present?	Yes	No_
Remarks:							11,410 001			
rtomanto.										

Project/Site: MVP	City/County: Lewis		Sampling Date: 05/05/2016		
Applicant/Owner: MVP		Sampling Point: W-IJ24			
Investigator(s): E. Foster, J. Niergarth, B. So		_			
Landform (hillslope, terrace, etc.): Floodplain			Slone (%): 1		
Subregion (LRR or MLRA): LRR N		-80.571966	0.0pc (76): Datum: NAD 83		
Soil Map Unit Name: Lh: Lobdell-Holly Silt Loam					
	_				
Are climatic / hydrologic conditions on the site typic					
Are Vegetation, Soil, or Hydrology _					
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If need	ded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site	e map showing sampling point lo	cations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	No Is the Sampled A				
Hydric Soil Present? Yes	/ No	,	No		
Wetland Hydrology Present? Yes	No within a Wetland	r res	NO		
Remarks: Cowardin Code: PEM	HGM: Slope Water Ty	ype: RPWWN			
Pasture. Impacted by grazing and	·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Pasture. Impacted by grazing and	mowing.				
HADBOLOCA					
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; cl	neck all that apply)	Surface Soil			
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa			
	Oxidized Rhizospheres on Living Roots				
	Presence of Reduced Iron (C4)		Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6		Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	· ·	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)		
Iron Deposits (B5)		✓ Geomorphic	• •		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	itard (D3)		
Water-Stained Leaves (B9)		Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)		
Field Observations:		-			
	Depth (inches):				
Water Table Present? Yes No					
	Depth (inches): Wetla	and Hydrology Preser	nt? Yes 🗸 No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring)	ng well, aerial photos, previous inspections),	if available:			
Remarks: Heavy rains past 24 hours.					
Pleavy rains past 24 flours.					

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

Sampling Point: W-IJ24	
Test worksheet:	_
ominant Species	

30,	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Demonstrat Demoiser of Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
6				(702)
7				Prevalence Index worksheet:
	0	= Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover: 0			_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')			·	FACW species x 2 =
· · · · · · · · · · · · · · · · · · ·				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		· <u></u>		✓ 2 - Dominance Test is >50%
9				
	0 ;	= Total Cov	/er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	<u> </u>			data in Remarks or on a separate sheet)
1. Eleocharis obtusa	30	/	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex Iurida	12		OBL	
3. Anthoxanthum odoratum	12	<u> </u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Scirpus atrovirens	5			be present, unless disturbed or problematic.
			OBL	Definitions of Four Vegetation Strata:
5. Juncus effusus	12		FACW_	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Carex sp.	5	. <u></u>	ND	more in diameter at breast height (DBH), regardless of
7. Lysimachia nummularia	10		FACW_	height.
8				Continue/Charles Mandy plants avaluating visco loss
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				Harle All back and a constant of a land a second of
	86	= Total Cov	/or	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 43		total cover		o. c.2c, and noce, plante loss than c.2c it tall
Woody Vine Stratum (Plot size: 15')			·	Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cov	_	Present? Yes V No No
50% of total cover:0	20% of	total cover	: 0	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
Carex sp. is not identified to species level and	herefore	not inclu	ded in th	e dominance test.
carex opt to flot factimined to openies level and	110101010		aoa	

Sampling Point: W-IJ24

SOIL

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remark	KS
0-2	10yr 4/2	70	7.5yr 4/6	30	С	M/PL	fine SL			_
2-8	10yr 4/2	70_	7.5yr 4/6	30_	С	M/PL	SCL			
8-18	10yr 4/2	70	10yr 4/6	30_	С	M	SC			
18-20	10yr 4/3	90	10yr 4/6	10	С	M	SL			_
			<u> </u>		-					
						- ——				
							·			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: Pl			
Hydric Soil	Indicators:						Indica	itors for Pi	roblematic	Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLR	A 147)
Histic Ep	oipedon (A2)		Polyvalue Be				148) C		Redox (A1	16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 14		
	en Sulfide (A4)		Loamy Gleye		F2)		Pi		oodplain So	oils (F19)
	d Layers (A5)		Depleted Mat		(0)			(MLRA 13		(TE40)
	ıck (A10) (LRR N) d Below Dark Surface	(//11)	Redox Dark S Depleted Dar	•					/ Dark Surfa in in Rema	
	ark Surface (A12)	(Д11)	Redox Depre				0	illei (Expia	III III IXCIIIa	iko)
	Mucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.				
	A 147, 148)	,	MLRA 13			,,				
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	36, 122)	³ Indi	cators of h	ydrophytic v	vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	tland hydro	logy must b	pe present,
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	') unl	ess disturb	ed or probl	ematic.
Restrictive I	Layer (if observed):									
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes_	No
Remarks:										
Soils slight	ly disturbed, tram	pled by	cattle							



Photograph Direction SW

Comments:			

Project/Site: MVP	City/County: Le	wis	Sampling Date: 05/05/2016			
Applicant/Owner: MVP			Sampling Point: W-IJ24-UP			
Investigator(s): E. Foster, J. Niergarth, B.			<u> </u>			
Landform (hillslope, terrace, etc.): Floodplair			Slope (%): 1			
Subregion (LRR or MLRA): LRR N						
Soil Map Unit Name: Lh: Lobdell-Holly Silt Lo		NWI classifi				
Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach						
	, ,		· · · · · · · · · · · · · · · · · · ·			
	No.	mpled Area				
	No within a	Wetland? Yes	No			
Damania		lotor Typo:				
Cowardin Code. OPLAND	HGIVI: VV	/ater Type:				
Pasture.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is required	l; check all that apply)	Surface Soi	l Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on Livin	g Roots (C3) Moss Trim I	Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	Soils (C6) Crayfish Bu	rrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or S	Stressed Plants (D1)			
Iron Deposits (B5)			c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu				
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)			
Field Observations:	4					
Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	nt? Yes No			
Describe Recorded Data (stream gauge, moni	oring well, aerial photos, previous inspe	ections), if available:				
Remarks:						
Heavy rain past 24 hours						

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

Sampling Point: W-IJ24-UP	
worksheet:	

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	2	(4)
1				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	4	(D)
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	50	(4 (5)
5				That Are OBL, FACW, or FAC:		(A/B)
6				Prevalence Index worksheet:		
	0 -	= Total Cov	/er	Total % Cover of:	Multiply by:	
50% of total cover:0				OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	:=	_
1				FAC species x 3	i =	_
2				FACU species x 4	· =	_
3				UPL species x 5	i =	_
4				Column Totals: (A)		(B)
5						
6				Prevalence Index = B/A =		
7				Hydrophytic Vegetation Indicate		
8				1 - Rapid Test for Hydrophytic	c Vegetation	
9.				2 - Dominance Test is >50%		
	_	= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹	4	
50% of total cover:0				4 - Morphological Adaptations		
Herb Stratum (Plot size: 5')	<u></u>			data in Remarks or on a s	•	
1. Taraxacum officinale	10		FACU	Problematic Hydrophytic Veg	etation ¹ (Expla	iin)
2. Ranunculus acris	15	~	FAC			
3. Anthoxanthum odoratum	20	~	FACU	¹ Indicators of hydric soil and wetla		must
4. Potentilla simplex	5		FACU	be present, unless disturbed or pr		
5. Viola sororia	5		FAC	Definitions of Four Vegetation S	otrata:	
6. Trifolium repens	20	~	FACU	Tree – Woody plants, excluding v		
7. Eleocharis obtusa	15	~	OBL	more in diameter at breast height height.	(DBH), regard	less of
8						
9				Sapling/Shrub – Woody plants, ethan 3 in. DBH and greater than o	excluding vines	s, less
10				m) tall.	equal to 3.20	511 (1
11.		-		,		
	90	= Total Cov	ver	Herb – All herbaceous (non-wood of size, and woody plants less that		irdless
50% of total cover: 45		total cover				
Woody Vine Stratum (Plot size: 15')	<u></u>			Woody vine – All woody vines graheight.	eater than 3.28	3 ft in
1				neight.		
2						
3		,				
4		,				
5.				Hydrophytic Vegetation		
		= Total Cov	ver	Present? Yes	No 🗸	
50% of total cover:0		total cover	^			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-IJ24-UP

SOIL

Depth	cription: (Describe	to the depti		ent tne i Feature		or confirm	tne absence	of indicate	ors.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-2	7.5yr 3/3	100					SiL				
2-13	7.5yr 4/3	100					SCL	•			
13-20	<u> </u>	98	7 Evr.1/6			N/I	SC	-			
13-20	7.5yr 4/2	90	7.5yr4/6	2	<u>C</u>	<u>M</u>	30				
	-	. <u> </u>									
		· · <u></u> -				·					
		. ———									
		· ·						-			
					-						
	oncentration, D=Dep	letion, RM=I	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: P				
Hydric Soil	Indicators:									Hydric Soil	ls³:
Histosol			Dark Surface					cm Muck (, .	•	
	pipedon (A2)		Polyvalue Bel				148) C	oast Prairie		16)	
Black Hi			Thin Dark Su			147, 148)	Б	(MLRA 14		:lo (E10)	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		(FZ)		<u> </u>	iedmont Flo (MLRA 13)IIS (F 19)	
	ick (A10) (LRR N)		Redox Dark S		- 6)		V			ace (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar	•	,			ther (Expla			
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane		es (F12) (LRR N,					
	A 147, 148)		MLRA 136	•	(MI DA 40)C 400\	31	:	المناه ما المامالية		
	Gleyed Matrix (S4) Redox (S5)		Umbric Surface Piedmont Flo					icators of n		vegetation a	na
	Matrix (S6)		Red Parent M					less disturb			
	Layer (if observed):			iatoriai (i				- diotaib	ou o. p.oo.	omano.	
Type:	,										
Depth (inc	ches):						Hydric Soil	Present?	Yes	No	/
Remarks:	,										

Project/Site: MVP		City/Co	_{ounty:} Lewis		Sampling Date: 05/19/2015			
Applicant/Owner: MVP				Sampling Point: W-J20				
Investigator(s): R. Meeker, S. Kelly, D Santillo Section, Township, Range: N/A								
• ','					Slope (%): 15-20			
Subregion (LRR or MLRA): LF					NAD 83			
Soil Map Unit Name: Gilpin-L								
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Yo	es 🗸 No ((If no, explain in R	temarks.)			
Are Vegetation, Soil		-			present? Yes No			
Are Vegetation, Soil								
					s, important features, etc.			
	.,				, , ,			
Hydrophytic Vegetation Prese Hydric Soil Present?	ent? YesYes	No	Is the Sampled Area					
Wetland Hydrology Present?		No No	within a Wetland?	Yes	No			
Remarks:		· <u> </u>						
Cowardin Code: PEM H	GIVI: Slope VVI: INK	PVVVV						
Information listed on this of wetland hydrology, hy Supplement delineation	form represents the drophytic vegetation methodology.	e data collected in n, and hydric soils	n 2015. The wetland s was confirmed usi	d was revisited ng the USACE	on 09/24/2019. Presence EMP Regional			
HYDROLOGY								
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum	of one is required; check	all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	1	True Aquatic Plants (E	314)	Sparsely Vegetated Concave Surface (B8)				
✓ High Water Table (A2)	H	Hydrogen Sulfide Odd	or (C1)	Drainage Patterns (B10)				
Saturation (A3)			es on Living Roots (C3)					
Water Marks (B1)	F	Presence of Reduced	Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)	F	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	7	Thin Muck Surface (C	7)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	(Other (Explain in Rem	narks)	Stunted or S	tressed Plants (D1)			
Iron Deposits (B5)				✓ Geomorphic	Position (D2)			
Inundation Visible on Aeri	ial Imagery (B7)			Shallow Aqu	itard (D3)			
Water-Stained Leaves (B	9)			Microtopogra	aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
Surface Water Present?	Yes No	Depth (inches):						
Water Table Present?	Yes No	Depth (inches):	6					
Saturation Present?	á á		4 Wetland H	lydrology Preser	nt? Yes 🗸 No			
(includes capillary fringe)		. , , ,						
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, prev	vious inspections), if ava	ılable:				
Remarks:								
Roadside ditch.								
l loadolao altori.								

VEGETATION (Four Strata) - Use scientific na

50% of total cover: 0

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15')

2. Eleagnus angustifolia

2. Juncus effusus 3. Mimulus ringens 4. Microstegium vimineum

Woody Vine Stratum (Plot size: 15')

1 Rosa multiflora

Herb Stratum (Plot size: 5' 1. Packera aurea

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 5	(A)
				Total Number of Dominant Species Across All Strata: 6	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 83	(A/B)
				Prevalence Index worksheet:	
	0	= Total Cov		Total % Cover of: Multiply by	<u>/:</u>
% of total cover: 0				OBL species x 1 =	
15'	2070 01	total oover.		FACW species x 2 =	
/	10	~	FAC	FAC species x 3 =	
	5		FACU	FACU species x 4 =	
			<u>racu</u>	UPL species x 5 =	
					(B)
				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	n
				2 - Dominance Test is >50%	
	15	= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
0% of total cover: 7.5				4 - Morphological Adaptations ¹ (Provide	supporting
)	2070 01	total oover.		data in Remarks or on a separate she	eet)
/	35	/	FACW	Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
	25	<u> </u>			
	20		F <u>ACW</u>	¹ Indicators of hydric soil and wetland hydrolog	gy must
	20		OBL	be present, unless disturbed or problematic.	
			F <u>AC</u>	Definitions of Four Vegetation Strata:	
				Tree – Woody plants, excluding vines, 3 in. (more in diameter at breast height (DBH), regineight.	
				Sapling/Shrub – Woody plants, excluding vi than 3 in. DBH and greater than or equal to 3 m) tall.	
50		= Total Cov		Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tal	
0% of total cover: <u>50</u> 15')	20% of	total cover:	20	Woody vine – All woody vines greater than 3 height.	3.28 ft in
				Hydrophytic Vegetation	
		= Total Cov	^	Present? Yes No	_
0% of total cover: 0	20% of	total cover:	0		

Remarks: (Include photo numbers here or on a separate sl

50% of total cover: 0

50% of total cover: 50

SOIL Sampling Point: W-J20

Profile Desc	ription: (Describe t	o the dep	th needed to docur	nent the	indicator	or confirm	the abs	ence of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Textu	
0-6	10YR 5/1	92	5YR 4/6	8	C	M/PL	SaC	<u> </u>
6-12	10YR 4/6	95	7.5YR 5/8	5	С	M	SaC	
					·			
							-	
				-				
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil				(0-1)				ndicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(CO) /	M D A 447	_	2 cm Muck (A10) (MLRA 147)
Black Hi	oipedon (A2)		Polyvalue Be Thin Dark Su				148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(1 2)		-	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		F6)			Very Shallow Dark Surface (TF12)
·	d Below Dark Surface	(A11)	Depleted Dar				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre	essions (F	⁻ 8)			
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		ses (F12) (LRR N,		
	A 147, 148)		MLRA 13	•				2
	Gleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
-	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6) _ayer (if observed):		Red Parent N	viateriai (i	-21) (WLK	A 127, 147	<u>')</u>	unless disturbed or problematic.
Type:							Unidata	Soil Present? Yes V No
	ches):						пуапс	Soil Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-J20 Cowardin Code PEM



Photograph Direction SW

Date: 05/19/2015

Comments: 2015 wetland delineation.



Photograph Direction West

Date: 09/24/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/County: Lewis		Sampling Date: 05/19/2015
Applicant/Owner: MVP		· · _		Sampling Point: W-J20-UP1
Investigator(s): R. Meeker, S. Kelly, D	Santillo	Section, Township, Range: N/		_ ,
Landform (hillslope, terrace, etc.): Hillslop				Slope (%): 10-20
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Gilpin-Upshur silt				
Are climatic / hydrologic conditions on the si				
Are Vegetation, Soil, or Hyd			Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hyd	rology naturally pr	roblematic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attac	ch site map showing	g sampling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No			
	Yes No	Is the Sampled Area	Yes	No. V
	Yes No	within a Wetland?	1es	NO
Remarks:		<u> </u>		
Upland				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic F	Plants (B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulf	ide Odor (C1)	Drainage Pat	tterns (B10)
Saturation (A3)		ospheres on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	Presence of R			Water Table (C2)
Sediment Deposits (B2)		eduction in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)	Thin Muck Sur			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain	in Remarks)		tressed Plants (D1)
Iron Deposits (B5)			Geomorphic	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? Yes	No Depth (inches	s).		
Water Table Present? Yes	No Depth (inches	o)		
				10 Van No V
Saturation Present? Yes (includes capillary fringe)	No Popth (inches	S): wetiand r	lydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, n	nonitoring well, aerial phot	os, previous inspections), if ava	ilable:	
Domarko				
Remarks:				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')	% Cover	Species?		Number of Dominant Species
1. Acer saccharum	30	•	FACU	That Are OBL, FACW, or FAC: 4 (A)
2				
			· ——	Total Number of Dominant Species Across All Strata: 6 (B)
3		-		Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6% (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 15	20% of	total cover	6	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Rosa multiflora	30	✓	FAC	FAC species x 3 =
2. Eleagnus angustifolia	10		FACU	FACU species x 4 =
			r <u>ACU</u>	UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
		-		✓ 2 - Dominance Test is >50%
9	40			3 - Prevalence Index is ≤3.0 ¹
60		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 20	20% of	total cover	8	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Packera aurea	20		FACW_	Problematic Hydrophytic Vegetation (Explain)
2. Dicanthelium clandestinum	20	✓	FAC	
3. Microstegium vimineum	60	V	FAC	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				O and the original to the orig
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
14				,
11	100			Herb – All herbaceous (non-woody) plants, regardless
T00/ (1.1.) FO		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50</u>	20% of	total cover	20	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3.				
1				
4		-		Hydrophytic
5				Vegetation Present? Yes ✓ No
		= Total Cov	_	riesent: res_v No
50% of total cover:0	20% of	total cover	. 0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-J20-UP1

Profile Description: (Describe to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth Matrix	Redo	x Features	S			
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6 10YR 5/6 98	7.5YR 5/6	2	С	M	SaC	
6+						Roadbed
			-			
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indi	cators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface	(S7)			_	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Be		ce (S8) (N	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Su	rface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma	. ,				(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark					Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dar				_	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre					
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangan		es (F12) (LRR N,		
MLRA 147, 148)	MLRA 13	-			3,	
Sandy Gleyed Matrix (S4)	Umbric Surfa					ndicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Flo					vetland hydrology must be present,
Stripped Matrix (S6)	Red Parent N	nateriai (F	21) (WLR	A 127, 147	7) 0	Inless disturbed or problematic.
Restrictive Layer (if observed):						
Type: Roadbed						
Depth (inches): 6					Hydric Sc	oil Present? Yes No
Remarks:						

Project/Site: MVP	City/County: Lewis		Sampling Date: 05/20/2015		
Applicant/Owner: MVP			Sampling Point: W-J23		
Investigator(s): R. Meeker, S. Kelly, D Santillo					
Landform (hillslope, terrace, etc.): terrace			Slope (%): 1-2		
Subregion (LRR or MLRA): LRRN La			Datum: NAD 83		
Soil Map Unit Name: Gilpin-Upshur silt loams,	35 to 70 percent slopes, severely er	oded NWI classifica	ation: None		
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes Vo	(If no. explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach site					
			, ,		
	No Is the Sampled Are				
Hydric Soil Present? Yes V Wetland Hydrology Present? Yes	No within a Wetland?	Yes	No		
Remarks:					
Cowardin Code: PEM HGM: DEPRESS	ONAL WT: NRPWW				
Information listed on this form represents	the data collected in 2015. The wetla	and was revisited	on 09/24/2019. Presence		
of wetland hydrology, hydrophytic vegetati					
Supplement delineation methodology.	,				
HYDROLOGY		-			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; che	ock all that apply)	Surface Soil (
✓ Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
	Hydrogen Sulfide Odor (C1)	Sparsely vegetated Concave Surface (Bo) Drainage Patterns (B10)			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Oxidized Rhizospheres on Living Roots (C:				
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burr			
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ressed Plants (D1)		
Iron Deposits (B5)	_	Geomorphic I			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	, ,		
Water-Stained Leaves (B9)			phic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral			
Field Observations:					
Surface Water Present? Yes No	Depth (inches):				
Water Table Present? Yes No	Depth (inches):				
Saturation Present? Yes No		d Hydrology Present	t? Yes 🗸 No		
(includes capillary fringe)		- veileble			
Describe Recorded Data (stream gauge, monitoring	well, aerial priotos, previous inspections), il a	avallable.			
Remarks:					
Remnant logging road.					

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

Sampling	Point:	W-J	123
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Troo Stratum (Blot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot size)		Species?		Number of Dominant Species
1. Liriodendron tulipifera	20		<u>FACU</u>	That Are OBL, FACW, or FAC:3 (A)
2. Acer saccharum	10		FACU_	Total Number of Dominant
3				Species Across All Strata:5 (B)
4				Descrit of Descional Conscion
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				(42)
7				Prevalence Index worksheet:
	30	= Total Co	ver	Total % Cover of: Multiply by:
50% of total cover:15				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				()
5		·		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Carex stricta	25		OBL	Froblematic Hydrophytic vegetation (Explain)
2. Cyperus esculentus	40		FACW_	The directions of boundings of the original conditions and boundings of the original conditions and the original conditions are directly as a second conditions of the original conditions are described by the original conditions and the original conditions are described by the origin
3. Juncus effusus	20		FACW_	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Microstegium vimineus	10		F <u>AC</u>	Definitions of Four Vegetation Strata:
5. Onoclea sensibilis	5		FACW	Deminions of Four Vegetation offata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				noight.
8 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	100			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 50		= Total Cover		of size, and woody plants less than 3.28 ft tall.
4.51	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
voody vine Stratum (1 lot size)				height.
1				
2		·		
3				
4				Hydrophytic
5				Vegetation
		= Total Co	_	Present? Yes No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Wetland on a remnant logging road.				

SOIL Sampling Point: W-J23

Profile Desc	cription: (Describe t	o the deptl	n needed to docum	nent the i	indicator	or confirm	the abs	ence of indicators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu		Remarks
0-6	7.5yr4/3	95	7.5yr5/6	5	С	M/PL	SAC	L	
			·						
	-				-				
									_
					-				
	-								
									_
	-					· ——			
									
	oncentration, D=Depl	etion, RM=I	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		on: PL=Pore Lining,	
Hydric Soil									ematic Hydric Soils ³ :
Histosol	, ,		Dark Surface				-	2 cm Muck (A10)	,
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Re	
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 1	=
	en Sulfide (A4)		Loamy Gleye		(F2)		-	Piedmont Floodp	The state of the s
	d Layers (A5)		Depleted Mar					(MLRA 136, 1	
	uck (A10) (LRR N)	(/////	Redox Dark S				-		rk Surface (TF12)
	d Below Dark Surface	(ATT)	Depleted Dar				-	Other (Explain in	Remarks)
	ark Surface (A12) ⁄lucky Mineral (S1) (L	DD N	Redox Depre			IDDN			
	A 147, 148)	KK N,	MLRA 13		es (F12) (LINK IN,			
	Gleyed Matrix (S4)		Umbric Surfa		(MIRA 13	86 122\		³ Indicators of hydro	phytic vegetation and
-	Redox (S5)		Piedmont Flo				.8)	wetland hydrology	
-	Matrix (S6)		Red Parent N					unless disturbed of	•
	Layer (if observed):			(1	/ (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Í		
Type: Re									
Depth (in	_						Hydrid	Soil Present? Ye	es V No
	ones)						. i yai i	7001111030110.	
Remarks:									

Wetland Photograph Page

Wetland ID W-J23 Cowardin Code PEM



Photograph Direction NNE

Date: 05/20/2015

Comments: 2015 wetland delineation.



Photograph Direction West

Date: _____09/24/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: Lewis	Sampling Date: 05/20/2015		
Applicant/Owner: MVP		State: WV Sampling Point: W-J23 UP		
Investigator(s): R. Meeker, S. Kelly, D Santillo	Section, Township, Ran			
		ex, none): convex Slope (%): 2-3		
Subregion (LRR or MLRA): LRRN La		80.587027NAD 83		
Soil Map Unit Name: Gilpin-Upshur silt loams,				
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes No	(If no, explain in Remarks.)		
		Iormal Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology		eded, explain any answers in Remarks.)		
		cations, transects, important features, etc.		
.,		, , , ,		
	No Is the Sampled A			
Hydric Soil Present? Wetland Hydrology Present? Yes Yes	. Within a Welland	d? Yes No V		
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)		
	_ True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
	_ Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
	Oxidized Rhizospheres on Living RootsPresence of Reduced Iron (C4)			
Water Marks (B1) Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C	Dry-Season Water Table (C2) 6) Crayfish Burrows (C8)		
Occiment Deposits (B2)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)		Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		Microtopographic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral Test (D5)		
Field Observations:				
	Depth (inches):			
	Depth (inches):			
	Depth (inches): Wet	land Hydrology Present? Yes No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections).	if available:		
Remarks:				
Remnant logging road.				

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

Sampling Point: W-J23 UP

201	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30')	% Cover			Number of Dominant Species	
1. Acer saccharum	10		FACU_	That Are OBL, FACW, or FAC:3	(A)
2			_	Total Number of Descinent	
3				Total Number of Dominant Species Across All Strata: 4	(B)
4				Species / Gross / III Girata.	(D)
				Percent of Dominant Species That Are OBL FACW or FAC: 75%	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7					
	10	= Total Co	ver	Total % Cover of: Multiply by:	
50% of total cover: 5	20% of	total cover	:2	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1				FAC species x 3 =	
				FACU species x 4 =	
2				UPL species x 5 =	
3					
4				Column Totals: (A)	(B)
5				Prevalence Index = B/A =	
6			_		
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8		-		✓ 2 - Dominance Test is >50%	
9	^			3 - Prevalence Index is ≤3.0 ¹	
_		= Total Co		4 - Morphological Adaptations ¹ (Provide s	unnorting
50% of total cover: 0	20% of	total cover	:0		
Herb Stratum (Plot size: 5')				data in Remarks or on a separate she	•
1. Packera aurea	20	/	FACW	Problematic Hydrophytic Vegetation ¹ (Exp	olain)
2. Melilotus indicus	10	-	FACU		
3. Cyperus esculentus	10			¹ Indicators of hydric soil and wetland hydrolog	y must
			FACW_	be present, unless disturbed or problematic.	
4. Dicanthelium clandestinum	20		F <u>AC</u>	Definitions of Four Vegetation Strata:	
5. Microstegium vimineum	40	✓	FAC		
6		-		Tree – Woody plants, excluding vines, 3 in. (7	.6 cm) or
6				more in diameter at breast height (DBH), rega	.6 cm) or rdless of
7				Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regarkeight.	.6 cm) or rdless of
7 8				more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir	rdless of es, less
7				more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3	rdless of es, less
7 8				more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir	rdless of es, less
7				more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall.	rdless of es, less 28 ft (1
7				more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3	es, less 28 ft (1
7	100		ver	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall	es, less 28 ft (1
7	100	= Total Co	ver	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3	es, less 28 ft (1
7		= Total Co	ver : 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall	es, less 28 ft (1
7	100 :20% of	= Total Co	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3	es, less 28 ft (1
7		= Total Co	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3	es, less 28 ft (1
7		= Total Co	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height.	es, less 28 ft (1
7	100 _:20% of	= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver : 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1
7		= Total Co total cover	ver 20	more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vir than 3 in. DBH and greater than or equal to 3 m) tall. Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation	es, less 28 ft (1

SOIL Sampling Point: W-J23 UP

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	n the abs	ence of indicators.)
Depth	Matrix		Redo	x Feature:	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	
0-6	7.5yr5/4	95	7.5 yr 4/6	5	С	M	SAC	CL
						-		
			-		-			
			_					
			_					 -
			_		-			
			-		-			
¹ Type: C=C	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	I Sand Gr	ains.	² Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil		50011, TXIVI—IX	eddoca Matrix, Mi	<u>J-Maskee</u>	T Odria Or	uiiio.		Indicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	/II RΔ 1 <i>4</i> 7	148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		r <i>z)</i>		-	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		:6\			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dai				-	Other (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre				-	Other (Explain in Nemarks)
	/lucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N		
	A 147, 148)	ixix iv,	MLRA 13		03 (1 12) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	-	MIRA 13	86 122)		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):		Red r drent r	viatoriai (i	21) (IIII 21)		· ,	unicos distarbed of problematic.
Type: Ro								
	_		_					0-11 Burnando Van V
Depth (in	cnes): <u>U</u>		<u> </u>				Hydric	Soil Present? Yes No
Remarks:		. 1						
Problemati	c due to restrictiv	e layer (ro	padbed).					

Project/Site: MVP		City/C	ounty: Lewis		Sampling Date: 05/20/2015	
Applicant/Owner: MVP					Sampling Point: W-K31	
Investigator(s): A.Bensted, V. Prilepin, J. Bittner Section, Township, Range: N/A						
Landform (hillslope, terrace, et				_	Slope (%): 3	
Subregion (LRR or MLRA): L	,		Long: <u>-80</u>		Datum: NAD 83	
Soil Map Unit Name: Janeley			Long			
			•	NWI classific		
Are climatic / hydrologic condit		-				
Are Vegetation, Soil	, or Hydrology	_ significantly distur	ped? Are "Normal	Circumstances" p	resent? Yes No	
Are Vegetation, Soil	, or Hydrology	_naturally problema	itic? (If needed, e	explain any answe	rs in Remarks.)	
SUMMARY OF FINDING	GS – Attach site ma	p showing sam	pling point location	ns, transects	, important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No				
Hydric Soil Present?	Yes V	No	Is the Sampled Area	🗸		
Wetland Hydrology Present?	Yes V	No No	within a Wetland?	Yes	No	
Remarks: Cowardin Code: PEM HGM						
	•	to DDM to all to				
2015 notes: Wetland is alon	,	,	•			
Information listed on this form hydrophytic vegetation, and	n represents the data co hydric soils was confirme	ed using the USAC	e wetland was revisited E EMP Regional Suppl	on 09/24/2019. Fement delineation	Presence of wetland hydrology, n methodology.	
HYDROLOGY						
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum	of one is required; check a	all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	т	rue Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	H	lydrogen Sulfide Odd	or (C1)	Drainage Pat	terns (B10)	
Saturation (A3)	<u> </u>	oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)	
Water Marks (B1)	P	resence of Reduced	Iron (C4)	Dry-Season \	Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction	` ,	Crayfish Burrows (C8)		
Drift Deposits (B3)		hin Muck Surface (C	,		sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	<u> </u>	Other (Explain in Ren	narks)		ressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	` '	
Inundation Visible on Aer		Shallow Aquitard (D3)				
Water-Stained Leaves (E	i9)	Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:	V N- /	Double (Southern)				
Surface Water Present?	Yes No I		12			
Water Table Present?	Yes No I	Bopan (mones)	10			
Saturation Present? (includes capillary fringe)	Yes No I	Depth (inches):	Wetland F	lydrology Presen	t? Yes <u>/</u> No	
Describe Recorded Data (stre	eam gauge, monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						
Soil moist but not satura	ted Low permeable	soil Occasional	surface water in ce	nter of wetland	Wetland is concave/	
slightly depressed, drain			odridoo water iii oo	ntor or worlding	. Wolland to conteaver	
	9					

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

30'

Sapling/Shrub Stratum (Plot size: 15')

3. Scirpus atrovirens

Woody Vine Stratum (Plot size: 15')

Tree Stratum (Plot size: __

1 Rosa multiflora

Herb Stratum (Plot size: _ 1. Typha angustifolia

2. Juncus effusus

4. Poa sylvestris

___)

50% of total cover: 2.5

5. Onoclea sensibilis 5 OBL

% Cover Species? Status

_ = Total Cover

5 = Total Cover

105 = Total Cover

0 = Total Cover

30

10

50% of total cover: 52.5 20% of total cover: 21

50% of total cover: 0 20% of total cover:

20% of total cover:_ 1

50% of total cover: 0 20% of total cover: 0

nts.	Sampling Point: W-K31
minant Indicator	Dominance Test worksheet:
oecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
	Total Number of Dominant Species Across All Strata: 4 (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC:75% (A/B)
	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
otal Cover al cover:0	OBL species x 1 =
ii cover	FACW species x 2 =
✓ FACU	FAC species x 3 =
1/100	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (B)
	、, 、,
	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	✓ 2 - Dominance Test is >50%
otal Cover	3 - Prevalence Index is ≤3.0 ¹
al cover: 1	4 - Morphological Adaptations ¹ (Provide supporting
	data in Remarks or on a separate sheet)
✓ OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACW_	Definitions of Four Vegetation Strata:
OBL	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.
otal Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
ıl cover: 21	W 1 1 All 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Woody vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Yes V No ____ Present?

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: W-K31

Profile Desc	ription: (Describe t	o the dept	h needed to docur	ment the i	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 5/1	85	7.5YR 5/8	15	<u>C</u>	M	SC	Occasional gravels.
4-15	5YR 5/8	90	10YR 5/2	10	D	<u>M</u>	SCL	
15-18	2.5 YR 6/1	90	10YR 5/6	10	С	M	CL	
							-	
¹Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		,	,				Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2	cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		. , .		, 148) C	coast Prairie Redox (A16)
Black His			Thin Dark Su			47, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		P	riedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Ma Redox Dark		- 6)		V	(MLRA 136, 147) Yery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dai	•	,			Other (Explain in Remarks)
	rk Surface (A12)	` ,	Redox Depre					,
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
	147, 148)		MLRA 13				3	
	leyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
-	edox (S5) Matrix (S6)		Piedmont Floor Red Parent N					etland hydrology must be present, less disturbed or problematic.
	ayer (if observed):		Ned Falenti	viateriai (i	Z1) (WILK	A 127, 14		less disturbed of problematic.
Type:	ayo. (ii oboo. rou).							
Depth (inc	hes).						Hydric Soil	Present? Yes ✓ No
Remarks:							,	
rtomanto.								

Wetland Photograph Page

Wetland ID W-K31 Cowardin Code PEM



Photograph Direction ENE

Date: 05/20/2015

Comments: 2015 wetland delineation.



Photograph Direction NNE

Date: 09/24/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Co	ounty: Lewis		Sampling Date: 05/20/2015	
Applicant/Owner: MVP		· 	State: WV	Sampling Point: W-K31-UP	
Investigator(s): A.Bensted, V. Prilepin, J.					
Landform (hillslope, terrace, etc.): Hillslope	Local relie	ef (concave, convex, non	e): Convex	Slope (%):_15	
Subregion (LRR or MLRA): LRRN	Lat: 39.080624	Long: -80.	58181	Datum: NAD 83	
Soil Map Unit Name: Janelew channery s					
Are climatic / hydrologic conditions on the site t					
Are Vegetation, Soil, or Hydrold				·	
Are Vegetation, Soil, or Hydrold					
SUMMARY OF FINDINGS – Attach					
			<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	
	No	Is the Sampled Area			
	No	within a Wetland?	Yes	No	
Remarks:	110				
Upland plot located on hillslope above HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil (
Surface Water (A1)	True Aquatic Plants (E			etated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odo		Drainage Patterns (B10)		
Saturation (A3)	Oxidized Rhizosphere	es on Living Roots (C3)			
Water Marks (B1)	Presence of Reduced	Iron (C4)	Dry-Season V	Vater Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	ows (C8)	
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Rem	arks)		ressed Plants (D1)	
Iron Deposits (B5)			Geomorphic I		
 Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			Shallow Aquit	phic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral		
Field Observations:		<u> </u>		1001 (20)	
	Depth (inches):				
	Depth (inches):				
	Depth (inches):		ydrology Present	t? Yes No	
(includes capillary fringe) Describe Recorded Data (stream gauge, mon	itoring well aerial photos, prev	vious inspections) if avail	lable:		
Describe Recorded Data (diream gadge, mon	toring work, derical priotos, prov	nous mopeodono), n avan	idolo.		
Remarks:					

Sampling	Point: W-K31-UP1
----------	------------------

,	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. Robinia pseudoacacia	10	✓	FACU	That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant Species Across All Strata: 4* (B)
4				Openies Across Air Strata.
5				Percent of Dominant Species That Are OBL FACW or FAC: 0% (A/B)
_				That Are OBL, FACW, or FAC: (A/B)
6		-		Prevalence Index worksheet:
1	10	T / 10		Total % Cover of: Multiply by:
50% of total cover: 5		= Total Co		OBL species x 1 =
	20% 01	lotal cover	· <u> </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15') 1. Rubus allegheniensis	25	~	FACIL	FAC species x 3 =
·			FACU_	FACU species x 4 =
2		·		
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	25	= Total Co	ver	3 - Prevalence Index is ≤3.0¹
50% of total cover: <u>12.5</u>				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Poa sp.	50	~	ND	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dactylis glomerata	15		FACU	
3. Coronilla varia	15		UPL	¹ Indicators of hydric soil and wetland hydrology must
4. Cirsium vulgare	10			be present, unless disturbed or problematic.
5. Galium aparine		-	F <u>ACU</u> FACU	Definitions of Four Vegetation Strata:
·			I ACC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		-		more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>47.5</u>	20% of	total cover	: <u>19</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Rhamnus cathartica	15		<u>FACU</u>	
2. Parthenicissus quinquefolia	5	~	FACU	
3				
4				
5.			-	Hydrophytic
<u>. </u>	20	Total Co		Vegetation Present? Yes No ✓
50% of total cover: 10		= Total Con total cover		
		iolai covel	<u>·</u>	
Remarks: (Include photo numbers here or on a separate s	neet.)			
ND - Not determined		ا الماماد	L '	
Vegetation Not ID'd down to the species level is	s not incl	uaed in t	ne aomin	ance test

Poa sp. not identifiable to species, not used in dominance test.

SOIL Sampling Point: W-K31-UP1

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence	e of indicators.)
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
0-6 10YR 4/4 100		SL	With gravels: 10-15%
		-	
		-	
		-	
	=Reduced Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indic	ators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,		Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	·, <u>—</u>	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	F	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	\	/ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		(= φ : (
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	3Inc	dicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14)		etland hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147		nless disturbed or problematic.
Restrictive Layer (if observed):	Ned Falent Waterial (F21) (WERA 121, 141) ui	liess disturbed of problematic.
Type: Rock refusal			,
Depth (inches): 6		Hydric Soi	I Present? Yes No
Remarks:		•	
Dry soil. Rock refusal below 6".			

Project/Site: MVP	Cit	y/County: Lewis		Sampling Date: 07/19/2016	
Applicant/Owner: MVP				Sampling Point: W-ST14	
Investigator(s): J. McGuirk, S. Therkil	ldson, C. Sorden Se				
	Local			Slope (%): 2-4	
Subregion (LRR or MLRA): LRR N				Datum: NAD 83	
Soil Map Unit Name: Fairpoint silt loam,					
Are climatic / hydrologic conditions on the s	site typical for this time of year?	Yes No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hyd	drology significantly dis	turbed? Are "Norma	l Circumstances" p	present? Yes No	
Are Vegetation, Soil, or Hyd					
SUMMARY OF FINDINGS – Atta					
Hydrophytic Vegetation Present?	Yes No				
	Yes No	Is the Sampled Area within a Wetland?	Vos V	No	
	Yes No	within a wetiand:	163		
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type:	RPWWD		
Soils disturbed					
soils con't: Gilpin-Upshur silt loam	s, 25 to 35 percent slope	es .			
HYDROLOGY					
Wetland Hydrology Indicators:				ators (minimum of two required)	
Primary Indicators (minimum of one is rec			Surface Soil		
Surface Water (A1)	True Aquatic Plan			getated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide		<u>✓</u> Drainage Pa		
Saturation (A3)		neres on Living Roots (C3)	Moss Trim L	` '	
Water Marks (B1)	Presence of Redu	, ,		Water Table (C2)	
Sediment Deposits (B2)		ction in Tilled Soils (C6)	Crayfish Bur		
Drift Deposits (B3)	Thin Muck Surface			isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in F	Remarks)		tressed Plants (D1) Position (D2)	
Inundation Visible on Aerial Imagery	(R7)		Shallow Aqu		
Water-Stained Leaves (B9)	(61)			aphic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral		
Field Observations:				()	
	No V Depth (inches):_				
Water Table Present? Yes	No Depth (inches):	-			
	No Depth (inches):		Wetland Hydrology Present? Yes _ ✓ No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge,	monitoring well, aerial photos,	previous inspections), if ava	aliable:		
Remarks:					
Modified drainage for water flow					

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

Sampling Point: W-ST14	
st worksheet:	

201	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				eposico / toroco / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		
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 =
		-		UPL species x 5 =
3				Column Totals: (A) (B)
4				Column rotals: (r) (b)
5		-	. 	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
<u> </u>	0	= Total Cov	uor	3 - Prevalence Index is ≤3.0¹
50% of total cover: 0				4 - Morphological Adaptations ¹ (Provide supporting
F!	20 /0 01	total cover		data in Remarks or on a separate sheet)
TIEID Stratum (FIOL SIZE)	40	~	E40)4/	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Juncus effusus			F <u>ACW</u>	
2. Juncus tenuis	25		F <u>AC</u>	¹ Indicators of hydric soil and wetland hydrology must
3. Carex vulpinoidea	20		OBL	be present, unless disturbed or problematic.
4. Agrostis gigantea	5		FACW_	Definitions of Four Vegetation Strata:
5. Lamium purpureum	5		FACU	Definitions of Four Vegetation offata.
6. Scirpus atrovirens	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			000	more in diameter at breast height (DBH), regardless of
7			·	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	er er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		total cover		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
1				
2			·	
2				
				Hydrophytic
3				Hydrophytic Vegetation
3				1 7 . 7
3	0	= Total Cov	_	Vegetation
3	0 20% of		_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation

Sampling Point: W-ST14

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators	s.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-10	10YR 5/3	30	7.5YR 5/8	10	<u>C</u>	<u>M</u>	GRCL		Disturbed	<u></u>
	5Y 5/6	30	7.5YR 4/6	10_			GRCL		Disturbed	<u></u>
	10YR 5/1	20					GRCL		Disturbed	<u> </u>
										_
								-		_
								-		
								-		
					-					
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL			
Hydric Soil I									blematic Hyd	
Histosol			Dark Surface		· · (OO) (I	U DA 447			0) (MLRA 14	7)
Histic Ep	oipedon (A2)		Polyvalue Be Thin Dark Su		, , ,		148) C	oast Prairie R (MLRA 147,		
	en Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)	Di		1 46) dplain Soils (F	=10)
	d Layers (A5)		Depleted Mat		2)		' '	(MLRA 136,		19)
	ick (A10) (LRR N)		Redox Dark S		6)		V		Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					ther (Explain		,
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,				
	A 147, 148)		MLRA 130	•			3			
	Gleyed Matrix (S4)		Umbric Surfa					-	rophytic vege	
	Redox (S5)		Piedmont Flo						gy must be pr	
	Matrix (S6) Layer (if observed):		Red Parent N	riateriai (F.	21) (WLK	A 127, 147) uni	ess disturbed	d or problemat	IIC.
	ourse fragments									
· · ·	ches): 10						Hydric Soil	Drocont?	Yes 🗸	No
Remarks:	Ciles)						Tiyunc 30ii	i resent:	163	
	c disturbed soils	etill hydrid	•							
riobieman	c disturbed soils	Suii Hyund	. .							



Photograph Direction West

Comments:	

Project/Site: MVP	City/C	ounty: Lewis		Sampling Date: 07/19/2016
Applicant/Owner: MVP	,			Sampling Point: W-ST15
Investigator(s): J. McGuirk, S. Therkilds	son, C. Sorden Section	on, Township, Range: N/		_
Landform (hillslope, terrace, etc.): Flat				Slone (%): 0/3
Subregion (LRR or MLRA): LRR N				Datum: NAD 83
Soil Map Unit Name: Fairpoint silt loam, 8 t		_		
Are climatic / hydrologic conditions on the site	**		•	,
Are Vegetation, Soil, or Hydro			Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydro	ology naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attack	n site map showing sam	pling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? You	es <u>/</u> No			
, , , ,	es V No	Is the Sampled Area within a Wetland?	Yes 🗸	No
	es No	within a wetiand?	res	NO
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type:	RPWWN	
soils con't: Gilpin-Upshur silt	·			
Solis corre. Olipiri-oparidi sile	ioanis, 25 to 55 percent s	siopes		
HYDROLOGY				
Wetland Hydrology Indicators:	and the strain of A			ators (minimum of two required)
Primary Indicators (minimum of one is requi		D4.4)	Surface Soil	
Surface Water (A1)	✓ True Aquatic Plants (I			getated Concave Surface (B8)
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide OddOxidized Rhizosphere		✓ Drainage Pa	
Water Marks (B1)	Presence of Reduced		Moss Trim Li	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Bur	
Orift Deposits (B3)	Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)	<u> </u>		Geomorphic	
Inundation Visible on Aerial Imagery (B	7)		Shallow Aqui	` '
Water-Stained Leaves (B9)	,			aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:				
Surface Water Present? Yes	No Depth (inches):	2		
Water Table Present? Yes	No Depth (inches):	2		
		0 Wetland F	lydrology Preser	nt? Yes 🗸 No
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring well porial photos pro	vious inspections) if avo	ilabla	
Describe Recorded Data (stream gauge, mo	oriiitoriing weii, aeriai priotos, pre	vious irispections), ii ava	liable.	
Remarks:				

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

Sampling Point: W-ST15

30,	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2			_	Total Niverbay of Dansinger
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7		·		
		= Total Cov		
50% of total cover:0	20% of	total cover	: <u> </u>	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Salix nigra	5	~	OBL	FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1, 1
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9	_	T / 10		3 - Prevalence Index is ≤3.0 ¹
50% of total		= Total Co		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 2.5	20% of	total cover	: <u> </u>	data in Remarks or on a separate sheet)
Tiero Stratum (Fiot Size)	0.5			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Typha latifolia	35		OBL	1 Toblematic Trydrophytic Vegetation (Explain)
2. Juncus effusus	25		FACW_	1
3. Scirpus atrovirens	10		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Juncus tenuis	10		FAC	
5. Lemna minor	10	-	OBL	Definitions of Four Vegetation Strata:
6. Carex vulpiniodea	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
· · · · · · · · · · · · · · · · · · ·			<u>OBL</u>	more in diameter at breast height (DBH), regardless of
7		·		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	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 3.20 it tall.
4.51	20% 01	lotal cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15)				height.
1				
2				
3				
4				
5				Hydrophytic
J	0	Tatal Car		Vegetation Present? Yes ✔ No
500/ aftertal access 0		= Total Co	_	
50% of total cover:0		total cover	:	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-ST15

SOIL

Profile Desc	cription: (Describe t	o the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redox	x Features	S				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR5/2	60	7.5YR 5/6	10	С	M/PL	GRCL	Disturb	ed
	10YR 3/1	30					GRCL	Disturb	ed
6-12	10YR 5/4	60	7.YR 5/6	5	С	M/PL	GRCL	Disturb	ed
	5Y 6/4	35						Disturb	ed
				-					
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		=Pore Lining, M=Matrix	
Hydric Soil								tors for Problematic H	-
Histosol			Dark Surface					cm Muck (A10) (MLRA	•
	pipedon (A2)		Polyvalue Be					past Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)	(= (=)
	en Sulfide (A4)		Loamy Gleye		F2)			edmont Floodplain Soils	s (F19)
	d Layers (A5) uck (A10) (LRR N)		Depleted Mat		·c)			(MLRA 136, 147) ery Shallow Dark Surfac	o (TE12)
	d Below Dark Surface	Δ(Δ11)	Depleted Dar					her (Explain in Remark	
	ark Surface (A12)	, (, (, , , ,	Redox Depre				0.	nor (Explain in Roman	
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,			
-	A 147, 148)		MLRA 130		· / ·				
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indi	cators of hydrophytic ve	getation and
-	Redox (S5)		Piedmont Flo					land hydrology must be	
	d Matrix (S6)		Red Parent M	/laterial (F	21) (MLR	A 127, 147)	unle	ess disturbed or probler	natic.
Restrictive	Layer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil I	Present? Yes	No
Remarks:									
Soils distu	rbed								
í									
í									
									I.



Photograph Direction West

Comments:			

Project/Site: MVP			City/	County: Lewis			Sampling Date: 0	7/19/2016
Applicant/Owner: MVP								_{t:} W-ST14,15 UPL
Investigator(s): J. McGuirk	, S. Therkildso	n, C. Soi	rden _{Seci}	tion. Township. Rand			_ , ,	
Landform (hillslope, terrace, e					· —	Linear	Slop	e (%): 0-3
Subregion (LRR or MLRA): _L				Long:			Datum	
Soil Map Unit Name: Fairpoir				_				•
•						_ NWI classific		
Are climatic / hydrologic condi			-					
Are Vegetation, Soil _	, or Hydrolo	ду	significantly distu	urbed? Are "N	Normal Ci	rcumstances" p	resent? Yes	No
Are Vegetation, Soil _	, or Hydrolo	ду	naturally problen	natic? (If nee	eded, exp	lain any answe	rs in Remarks.)	
SUMMARY OF FINDIN	GS – Attach	site map	showing sa	mpling point lo	cations	s, transects	, important fea	atures, etc.
Lhudranhutia Vagatatian Drag	· · · · · · · · · · · · · · · · · · ·	,	Va V					
Hydrophytic Vegetation Pres Hydric Soil Present?	ent: Tes	1 1	NO	Is the Sampled A				
Wetland Hydrology Present?	Yes	·	No	within a Wetland	d?	Yes	No	
Remarks: Cowardin C			<u></u> ЭМ:	\\/otor T\	ivno:			
	ode.	п	الااد.	Water Ty	ype.			
Upland								
HYDROLOGY								
Wetland Hydrology Indicat	ors:				Se	econdary Indica	tors (minimum of t	wo required)
Primary Indicators (minimum	of one is require	d; check all	that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)		Tru	ie Aquatic Plants	(B14)	_	_ Sparsely Veg	etated Concave S	surface (B8)
High Water Table (A2)		Hy	drogen Sulfide O	dor (C1)	_	_ Drainage Pat	terns (B10)	
Saturation (A3)		Ox	idized Rhizosphe	eres on Living Roots	(C3)	_ Moss Trim Li	nes (B16)	
Water Marks (B1)		Pre	esence of Reduce	ed Iron (C4)		_ Dry-Season \	Water Table (C2)	
Sediment Deposits (B2)		Re	cent Iron Reducti	ion in Tilled Soils (C6	6)	Crayfish Burr	ows (C8)	
Drift Deposits (B3)			n Muck Surface		_		sible on Aerial Ima	
Algal Mat or Crust (B4)		Oth	ner (Explain in Re	emarks)			ressed Plants (D1)
Iron Deposits (B5)	(5-7)					_ Geomorphic		
Inundation Visible on Ae					_	_ Shallow Aqui		
Water-Stained Leaves (Aquatic Fauna (B13)	39)					_ Microtopogra _ FAC-Neutral	phic Relief (D4)	
Field Observations:						_ FAC-Neutiai	Test (D3)	
Surface Water Present?	Ves N	V D	epth (inches):					
Water Table Present?			epth (inches): epth (inches):					
Saturation Present?			epth (inches): epth (inches):		land Hyd	Irology Proson	t? Yes	No 🗸
(includes capillary fringe)	1651) <u> </u>	eptii (iiiciies)		ianu nyu	irology Fresen	t: 165	NO
Describe Recorded Data (str	eam gauge, mon	toring well,	aerial photos, pr	revious inspections),	, if availal	ole:		
Remarks:								
Remarks.								

Sampling Point: W-ST14,15 UF	2	P	F	ŀ				ĺ	ŀ		r	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	F			ŀ	ŀ	ŀ	ŀ			ŀ		l	l	l	ŀ				l	ŀ	ŀ	l	ŀ				J	Į		ı	J		J					l	l	Į)	,	5	5	٤	į			1	1		,	,		ŀ	1	4	4	•		l	1	1	•			l	I))	j			١	٥							ı	١	٨	/	V	١	١		•	•	t	١	-	r	ı	i	i)	١		r	(•)								F			F	ŀ	ŀ	F	F
------------------------------	---	---	---	---	--	--	--	---	---	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	--	--	---	--	---	---	---	---	--	--	--	---	---	---	---	---	--	--	--	---	---	--	---	---	--	---	--	--	--	--	---	---	---	--	--	--	--	--	---	---	---	---	---	---	--	--	---	---	--	---	---	--	---	---	---	---	---	--	---	---	---	---	--	--	---	---	--	---	---	---	--	--	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	--	---	---	--	---	---	--	--	--	--	--	--	--	---	--	--	---	---	---	---	---

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				T. 111 1 15 15 15
3				Total Number of Dominant Species Across All Strata: 8 (B)
4				Openies / toross / tir etrata.
_		ī		Percent of Dominant Species
		-		That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% ()		= Total Cov		OBL species x 1 =
50% of total cover: 0	20% of	total cover	:0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				
1,				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Provolence Index - P/A -
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
J	0	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover	_	4 - Morphological Adaptations ¹ (Provide supporting
F!	20 /6 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5) 1. Daucus carota	15	~	LIDI	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Achillea millefolium	10	<u> </u>	UPL	
			FACU_	¹ Indicators of hydric soil and wetland hydrology must
3. Linaria vulgaris	10		<u>UPL</u>	be present, unless disturbed or problematic.
4. Trifolium pratense	15		F <u>ACU</u>	Definitions of Four Vegetation Strata:
5. Phleum pratense	10		F <u>ACU</u>	Total Washington and all and a control of
6. Plantago lanceolata	10		FACU_	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Lamium purpureum	10		FACU_	height.
8. Securigera varia	15	✓	UPL	
g. Asclepias syriaca	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11		-		
···	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		or size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 15')	2070 01	total oover		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	ver	Present? Yes No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the in	dicator o	or confirm	the abser	nce of indicate	ors.)	
Depth	Matrix		Redo	x Features	_ 1		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 4/3	60					GRSII	<u>-</u>	Disturbe	ed
	10YR 5/6	40								
			_							
							-			
								<u> </u>		
								<u> </u>		_
							•			
										_
	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.		: PL=Pore Lini		
Hydric Soil	Indicators:						Inc	dicators for P	roblematic Hy	ydric Soils³:
Histosol	, ,		Dark Surface					- '	A10) (MLRA 1	•
	oipedon (A2)		Polyvalue Be		. , .		148)	_	Redox (A16)	
Black Hi			Thin Dark Su	. ,	•	47, 148)		(MLRA 14		(540)
	en Sulfide (A4)		Loamy Gleye		·2)				oodplain Soils	(F19)
	d Layers (A5) uck (A10) (LRR N)		Depleted Material Redox Dark \$ 100.		3)			(MLRA 13	v Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar				_		in in Remarks	, ,
	ark Surface (A12)	()	Redox Depre					(,
Sandy M	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	s (F12) (L	.RR N,				
	A 147, 148)		MLRA 13							
	Sleyed Matrix (S4)		Umbric Surfa					Indicators of h		
	Redox (S5)		Piedmont Flo					wetland hydro		
	Matrix (S6)		Red Parent N	1aterial (F2	(MLR)	127, 147	")	unless disturb	ed or problem	atic.
	Layer (if observed):									
	ourse fragments		_							
Depth (inc	ches): O						Hydric S	Soil Present?	Yes	No
Remarks:										

Project/Site: MVP	City/Coun	_{ty:} Lewis	Sampling Date: 05/27/2015
		State	e: WV Sampling Point: W-B46
Investigator(s): R.Sparhawk, M.Brice, S.Yarbrough, M.			
Landform (hillslope, terrace, etc.): Valley Bott	om Local relief (c	concave, convex, none): Co	oncave Slope (%): 2
Subregion (LRR or MLRA): LRRN			
Soil Map Unit Name: Janelew channery sil	t loam, steep (JaE)	N	WI classification: None
Are climatic / hydrologic conditions on the site ty			
Are Vegetation, Soil, or Hydrolog	gy significantly disturbed	? Are "Normal Circun	nstances" present? Yes No
Are Vegetation, Soil, or Hydrolog			any answers in Remarks.)
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Yes	✓ No Is:		!
, , , ,	No.	the Sampled Area	Yes No
Wetland Hydrology Present? Yes	WI	thin a Wetland?	res No
Remarks: Cowardin Code: PEM HGM: Riverin	e WT: RPWWD		
Information listed on this form represe of wetland hydrology, hydrophytic veg Supplement delineation methodology.	etation, and hydric soils wa	015. The wetland was as confirmed using the	revisited on 09/24/2019. Presence USACE EMP Regional
HYDROLOGY			
Wetland Hydrology Indicators:		·	dary Indicators (minimum of two required)
Primary Indicators (minimum of one is required			urface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		parsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C	· —	rainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres of	- · · · · · · · · · · · · · · · · · · ·	loss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduced Iron Recent Iron Reduction in		ry-Season Water Table (C2) rayfish Burrows (C8)
✓ Drift Deposits (B3)	Thin Muck Surface (C7)	` ' —	aturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark		tunted or Stressed Plants (D1)
Iron Deposits (B5)	Guior (Explain III Homand		eomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)			hallow Aquitard (D3)
Water-Stained Leaves (B9)			icrotopographic Relief (D4)
Aquatic Fauna (B13)			AC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):	_	
Water Table Present? Yes No	Depth (inches):	_	
	Depth (inches):	Wetland Hydrolo	ogy Present? Yes 🗸 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previou	s inspections), if available:	_
December 1655/202 Data (cuba.ii gaage, iiioiiii	orning from across process, process		
Remarks:			
Surrounding areas have evidence of d	listurbance from road cuts	/fill.	

EGETATION (Four Strata) – Use scientific r	ames of	plants.		Sampling Point: W-B46	
30'	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:30') 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3	(A)
2				Total Nevel on of Developer	
3				Total Number of Dominant Species Across All Strata: 4	(B)
4					(-)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75%	(A/B)
6				That Ale OBL, FACW, OF FAC.	(A/D)
				Prevalence Index worksheet:	
r	0	= Total Cov	or	Total % Cover of: Multiply by:	
50% of total cover:0				OBL species x 1 =	_
Sapling/Shrub Stratum (Plot size: 15')	20,00.	total covor.	·	FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
2				UPL species x 5 =	
3				Column Totals: (A)	
4				(, ,	_ (-)
5		· 		Prevalence Index = B/A =	_
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8		-		✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supp	oorting
50% of total cover: 0	20% of	total cover		data in Remarks or on a separate sheet)	•
Tierb diratum (Fiot Size)	20			Problematic Hydrophytic Vegetation ¹ (Explain	n)
1. Carex Iurida	20		OBL	<u> </u>	-,
2. Dipsacus sylvestris	5	·	ND	¹ Indicators of hydric soil and wetland hydrology m	ามรา
3. Carex vulpinoidea	10		OBL	be present, unless disturbed or problematic.	iuot
4. Phalaris anrundunaciae	40		F <u>ACW</u>	Definitions of Four Vegetation Strata:	
_{5.} Solidago sp	5		ND	- W	,
_{6.} Galium mollugo	15		F <u>ACU</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
7. Eupatorium perfoliatum	5		FACW_	height.	
_{8.} Typha angustafolia	10		OBL	Sapling/Shrub – Woody plants, excluding vines,	logo
{9.} Poa trivialis	15		FACW	than 3 in. DBH and greater than or equal to 3.28	
10				m) tall.	,
11				Herb – All herbaceous (non-woody) plants, regard	dlace
	125	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.	aiooo
50% of total cover: 62.	5 20% of	f total cover:	25	Woody vine – All woody vines greater than 3.28	ft in
Woody Vine Stratum (Plot size: 15')				height.	11 111
1					
2					
3					
4				Hudranbudia	
5.				Hydrophytic Vegetation	
	0	= Total Cov	er	Present? Yes No	
50% of total cover: 0		f total cover:	_		
Remarks: (Include photo numbers here or on a separate	sheet.)			. L	
ND - Not Determined.	,				

SOIL Sampling Point: W-B46

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-2	10YR 3/4	100					L	
2-8	10YR 4/2	90	10YR 5/6	10	С	M/PL	L	
8-15	10YR 4/2	70	10YR 5/6	30	С	M/PL	L	
						<u> </u>		
1							2	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil			5 10 ((07)				cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	. ,	(CO) (I	AL DA 447		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be Thin Dark Su		. , .		148)	Coast Prairie Redox (A16) (MLRA 147, 148)
Black Hi	en Sulfide (A4)		Loamy Gleye			141, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		· <i>-)</i>		_	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark \$, ,	- 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar	•				Other (Explain in Remarks)
	ark Surface (A12)	` '	Redox Depre					,
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12)	(LRR N,		
	\ 147, 148)		MLRA 13					
	Sleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (ML R	RA 127, 147	') u	ınless disturbed or problematic.
	_ayer (if observed):							
Type:								.,
Depth (inc	ches):						Hydric Sc	oil Present? Yes V No No
Remarks:								



Photograph Direction WSW

Date: 05/27/2015

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 09/24/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/	County: Lewis		Sampling Date: 05/28/2015
Applicant/Owner: MVP			•		Sampling Point: W-B46-47-UP1
Investigator(s): R.Sparhawk, M.Brice, S.Ya	rbrough, M. Whitten	, W. Shattenberg Sect	ion, Township, Range: N		
Landform (hillslope, terrace, etc.): Ter		,			Slope (%): 5-10
Subregion (LRR or MLRA): LRRN			Long: <u>-80</u>		Datum: NAD 83
Soil Map Unit Name: Janelew char				NWI classific	
Are climatic / hydrologic conditions on		-			
Are Vegetation, Soil, o		-		ا Circumstances" ا	present? Yes No
Are Vegetation, Soil, o	r Hydrology	naturally problem	natic? (If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - A	Attach site m	nap showing sa	mpling point location	ons, transects	s, important features, etc.
Lludranhutia Vagatatian Dragant?	Yes	No. V			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes		Is the Sampled Area		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
Upland					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one i	s required; chec	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide O	dor (C1)	Drainage Pa	itterns (B10)
Saturation (A3)		Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim L	ines (B16)
Water Marks (B1)	_	Presence of Reduce	ed Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reducti	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Thin Muck Surface ((C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Re	emarks)		Stressed Plants (D1)
Iron Deposits (B5)					Position (D2)
Inundation Visible on Aerial Imag	gery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:	No.	Danth (inches)			
Surface Water Present? Yes _	No	Depth (inches): Depth (inches):			
					.a. v.
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland I	Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gau	uge, monitoring v	vell, aerial photos, pr	evious inspections), if ava	ailable:	
Remarks: Surrounding areas have evide	nce of disturk	nance from road	cute/fill		
Surrounding areas nave evide	rice of distait	dilce iloili load	cuts/IIII.		

,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Tetal New horse (Description
3				Total Number of Dominant Species Across All Strata: 2 (B)
4.				(
5				Percent of Dominant Species That Are OBL FACW or FAC: 0 (A/B)
6.				That Are OBL, FACW, or FAC: (A/B)
7	-			Prevalence Index worksheet:
·	0	= Total Cov	· · · · · · · · · · · · · · · · · · ·	Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	2070 01	total cover		FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4	-			(7)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7	-			1 - Rapid Test for Hydrophytic Vegetation
8	-	-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
•		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover	. 0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Bromus inermus	40		<u>UPL</u>	1 Toblematic Hydrophytic Vegetation (Explain)
2. Poa pratensis	15		F <u>ACU</u>	The disease of building oil and well and building to the
3. Mentha spicata	15		FACW_	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Apocynum androsaemifolium	5		F <u>ACU</u>	Definitions of Four Vegetation Strata:
5. Asclepius syriaca	5		FACU	
6. Gallium mollugo	30	/	F <u>ACU</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Oxalis sp	5		ND	more in diameter at breast height (DBH), regardless of height.
8. Dactylis glomerata	5		FACU	
g Securigera varia	5		UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.	-	-	<u> </u>	m) tall.
11.				, '
···-	125	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 62.5				or size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 15')	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
				height.
1		-		
2				
3				
4		-		Hydrophytic
5	0			Vegetation Present? Yes No _ ✓
50% ()		= Total Cov	_	riesent: res No
50% of total cover: 0		total cover	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-B46-47-UP1

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-5	10YR 3/2	100					L		_
5-13	10YR 4/3	90	10YR 5/4	10	С	M/PL	L		
13-20	10YR 4/4	70	7.5YR 5/8	30	С	M	L		
					<u> </u>				
					-			-	
		· 			-	·			
¹ Type: C=Ce	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Mat	rix.
Hydric Soil	Indicators:						Indica	ators for Problemation	: Hydric Soils³:
Histosol	(A1)		Dark Surface					cm Muck (A10) (MLR	
	oipedon (A2)		Polyvalue Be				148) C	oast Prairie Redox (A	16)
	stic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye		F2)		Pi	iedmont Floodplain So	oils (F19)
	d Layers (A5)		Depleted Mar		-0\			(MLRA 136, 147)	(TE40)
	ick (A10) (LRR N) d Below Dark Surface	a (Δ11)	Redox Dark S Depleted Dar					ery Shallow Dark Surf ther (Explain in Rema	
	ark Surface (A12)	= (A11)	Redox Depre				0	illei (Explaiii ili Neilla	irvə)
	Mucky Mineral (S1) (L	.RR N.	Iron-Mangan			LRR N.			
	A 147, 148)	,	MLRA 13		(- :-/ (,			
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 13	6, 122)	³ Indi	icators of hydrophytic	vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	tland hydrology must	be present,
Stripped	l Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147) unl	ess disturbed or probl	ematic.
Restrictive I	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):						Hydric Soil	Present? Yes	No <u> </u>
Remarks:							l		

Project/Site: MVP			Citv/C	county: Lewis		Sampling Date: 05/27/2015
Applicant/Owner: MVP						Sampling Point: W-B47
Investigator(s): C.Ansari, M	1.Whitten, M.	Brice	Section	on, Township, Range: N		
Landform (hillslope, terrace, e						Slone (%): 3
Subregion (LRR or MLRA): <u>L</u>	RRN	1 -4-	39 079374			olope (70) Datum: NAD 83
Subregion (LRR or MLRA):	int cilt loom	Lat:	norcent clance re			
Soil Map Unit Name: Fairpo				á .		
Are climatic / hydrologic condi-	tions on the site	typical fo	or this time of year? Y	res No	(If no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrol	ogy	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrol	ogy	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach	site m	ap showing sam	npling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Pres	ent? Ye		No			
Hydric Soil Present?	Ye		 No	Is the Sampled Area	🗸	
Wetland Hydrology Present?			 No	within a Wetland?	Yes	No
Remarks:						
Cowardin Code:PEM						
HGM:slope wetland						
WT: RPWWD						
HYDROLOGY						
Wetland Hydrology Indicat	ors:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is require	ed; checl	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	-		True Aquatic Plants (B14)		jetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)		~		es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)			Presence of Reduced	• , ,		Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burr	1 1
Drift Deposits (B3)			Thin Muck Surface (C	27)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Ren	narks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)					Geomorphic	Position (D2)
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (I	39)					phic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)
Field Observations:						
Surface Water Present?			Depth (inches):	1		
Water Table Present?			Dopur (mones).	9		
Saturation Present?	Yes N	lo	Depth (inches):	3 Wetland H	lydrology Presen	t? Yes <u> </u>
(includes capillary fringe) Describe Recorded Data (str	eam dalide mo	nitoring v	vell aerial photos pre	vious inspections) if ava	ilahla:	
Dooniso Noosiada Bala (dii	oam gaago, mo	moning v	von, donar priotos, pro	wiede inepedaeriej, ii dve	masio.	
Remarks:						
						with ground and surface
water discharge. On eith						
terrace between the stre	∍am feature a	and the	hillslope. The ter	race is marked by a	small depress	ion with a stand of
cattails.						

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

/EGETATION (Four Strata) – Use scientific r	names of	plants.		Sampling Point: W-B47
201	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:30') 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2				(//
3				Total Number of Dominant Species Across All Strata: 2 (B)
				Species Across Air Strata (B)
4 5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC:(A/B)
6	-			Prevalence Index worksheet:
1	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0			-	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20 /0 01	total cover		FACW species x 2 =
				FAC species x 3 =
			· ——	FACU species x 4 =
2				UPL species x 5 =
3			·	Column Totals: (A) (B)
4		·	· ——	(5)
5				Prevalence Index = B/A =
6		-	· ——	Hydrophytic Vegetation Indicators:
7			·	1 - Rapid Test for Hydrophytic Vegetation
8			· ——	✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
500, 4, , ,		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover	:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5') 1. Scirpus cyperianus	20		E40)4/	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	10	-	FACW_	
	30		FACW_	¹ Indicators of hydric soil and wetland hydrology must
3. Carex Iurida			OBL	be present, unless disturbed or problematic.
4. Eleocharis sp	10			Definitions of Four Vegetation Strata:
5. Typha angustafolia	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Poa trivialis	30		F <u>ACW</u>	more in diameter at breast height (DBH), regardless of
7		-		height.
8		-		Sapling/Shrub – Woody plants, excluding vines, less
9			· ——	than 3 in. DBH and greater than or equal to 3.28 ft (1
10			· ——	m) tall.
11			· ——	Herb - All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:55	20% of	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1		-		
2				
3				
4				Hydrophytic
5		-		Vegetation
0		= Total Cov	_	Present? Yes V No No
50% of total cover:0		total cover	:0	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOIL Sampling Point: W-B47

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/1	90	10YR 4/6	10	С	M/PL	L	
3-15	10YR 5/2	80	10YR 4/6	20	С	M/PL		
					<u> </u>	<u> 171/1 L</u>		
					· -			
				-	· ·			
	-							
	-				· -			
								
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indic	ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) C	Coast Prairie Redox (A16)
Black His			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		P	riedmont Floodplain Soils (F19)
	I Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark					ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar		. ,			Other (Explain in Remarks)
	ark Surface (A12)	DD N	✓ Redox Depre			U DD N		
	lucky Mineral (S1) (L \ 147, 148)	KK N,	Iron-Mangan		es (F12) (LKK N,		
	leyed Matrix (S4)		Umbric Surfa	•	/MI D A 14	26 122\	³ Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):		Red r drene n	natoriai (i	21) (IIILI		, un	less distarbed of problematic.
Type:	-uyo: (oboo. vou).							
	-h\-						Unadaia Cail	Present? Yes V No
	ches):						Hydric Soil	Present? Yes No No
Remarks:								



Photograph Direction South

Comments:

Project/Site: MVP		City	_{/County:} Lewis		Sampling Date: 05/27/2015
Applicant/Owner: MVP					Sampling Point: W-B46-47 Up
Investigator(s): MB, RS, SY, WS,	MW	Sec	tion, Township, Range: N		•
Landform (hillslope, terrace, etc.): Ter			elief (concave, convex, no		Slope (%): 5-10
	Lat		Long: -80		Datum: NAD 83
Soil Map Unit Name: Fairpoint silt				NWI classific	
Are climatic / hydrologic conditions on					
		-			
Are Vegetation, Soil, o		-			resent? Yes No
Are Vegetation, Soil, o			•	explain any answe	,
SUMMARY OF FINDINGS – A	Attach site m	nap showing sa	mpling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes	No 🗸			
Hydric Soil Present?	Yes		Is the Sampled Area within a Wetland?	Yes	No.
Wetland Hydrology Present?	Yes		within a wetland:	163	
Remarks:					
Upland					
LIVERGLOOV					
HYDROLOGY				Cocondon India	tors (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one i	is required; abox	lk all that apply)		·	tors (minimum of two required)
	s required, chec		(D14)	Surface Soil	getated Concave Surface (B8)
Surface Water (A1) High Water Table (A2)	_	True Aquatic Plants Hydrogen Sulfide C		Sparsely veg	
Saturation (A3)			eres on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduc	-		Water Table (C2)
Sediment Deposits (B2)			ion in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)	_	Thin Muck Surface			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re			ressed Plants (D1)
Iron Deposits (B5)	_		,	Geomorphic	` '
Inundation Visible on Aerial Imag	gery (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)				Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
		Depth (inches):			
		_ Depth (inches):			
	No	Depth (inches):	Wetland I	Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gau	uge, monitoring	well, aerial photos, p	revious inspections), if ava	ailable:	
3	3-, 3	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remarks:					
Surrounding areas have evide	nce of disturb	pance from road	cuts/fill.		

Sampling F	Point: W-B46-47 Up	
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Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30°) 1. None	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2.				
3				Total Number of Dominant Species Across All Strata: (B)
4.				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
6				That Are Obl., FACW, or FAC.
7.				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	•	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
4 None				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	0	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover:	•	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	20 /6 01	total cover.		data in Remarks or on a separate sheet)
1. Bromus inermus	40	~	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Poa pratensis	15		FACU	
3. Veronica arvensis	15	-	UPL	¹ Indicators of hydric soil and wetland hydrology must
4. Apocynum androsaemifolium	5	-	FACU	be present, unless disturbed or problematic.
5. Asclepius syriaca	5	-	FACU	Definitions of Four Vegetation Strata:
6. Gallium mollugo	30		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Oxalis stricta	5			more in diameter at breast height (DBH), regardless of
8 Dactylis glomerata	5	-	FACU FACU	height.
9 Vicia sativa			FACU FACU	Sapling/Shrub – Woody plants, excluding vines, less
<u> </u>			F <u>ACU</u>	than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	125			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 62.5	123 s	= Total Cov	rer : 25	of size, and woody plants less than 3.28 ft tall.
	20% Of	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3		-		
4		-		Hydrophytic
5				Vegetation Present? Yes No ✓
50% (1.1.)		= Total Cov	_	riesent? res No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-B46-47 Up

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	100					L	
5-13	10YR 4/3	90	10YR 5/4	10	С	M/PL	L	
13-20	10YR 4/4	70	7.5YR 5/8	30	С	M	L	
					-		-	
								·
	-							·
							-	
¹ Type: C=Co	oncentration, D=Depl	etion RM=	Reduced Matrix, MS	= S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I		ouon, run=	rtoddodd Watiix, We)—IVIGORO	a Garra Gr	unio.		cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (I	MLRA 147,		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				,	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		F	Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S					Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				_ (Other (Explain in Remarks)
	rk Surface (A12)	DD 11	Redox Depre			(I DD N		
	lucky Mineral (S1) (L	KK N,	Iron-Mangane		es (F12) (LRR N,		
	147, 148) sleyed Matrix (S4)		MLRA 130 Umbric Surfa		(MI D A 1	RE 122\	3Inc	dicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					nless disturbed or problematic.
	ayer (if observed):			(-	, (,	,	P
Type:	,							
	ches):		<u></u>				Hydric Soi	il Present? Yes No
Remarks:			<u> </u>				,	
rtomanto.								

Project/Site: MVP		City/C	ounty: Lewis		Sampling Date: 05/29/2015
Applicant/Owner: MVP			,		Sampling Point: W-B51
Investigator(s): C. Ansari, M	I. Whitten, M. E	Brice Section	n Township Range N	<u> </u>	_
Landform (hillslope, terrace, etc					Slone (%): 1
Subregion (LRR or MLRA): LF					Datum: NAD 83
Soil Map Unit Name: Janelev					
				NWI classific	
Are climatic / hydrologic conditi		•			
Are Vegetation, Soil	, or Hydrology	significantly disturb	ped? Are "Normal	Circumstances" p	oresent? Yes Vo No
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDING	3S – Attach si	te map showing sam	pling point location	ns, transects	, important features, etc.
		v			
Hydrophytic Vegetation Present?	ent? Yes Yes		Is the Sampled Area		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:	165_	NO			
Cowardin Code: PEM					
HGM: SLOPE WETLAN	D				
WT: NRPWW					
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)		True Aquatic Plants (I	B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd	or (C1)	✓ Drainage Pat	tterns (B10)
Saturation (A3)		Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)		Presence of Reduced	Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	` '
Inundation Visible on Aer				Shallow Aqui	, ,
Water-Stained Leaves (B	9)			· -	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:		D 4 (1)	1		
Surface Water Present?	Yes No _	Depth (inches): Depth (inches):	<u> </u>		
Water Table Present?		_			
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monito	ring well, aerial photos, pre-	vious inspections), if ava	ilable:	
Remarks:					
Wetland located at the to	ne slone. Wetla	nd forms an ephemer	al drainage to the w	est	
This area is a reclaimed		•	ar aramago to the n	001.	
	J				

Cover Special Specia	ies? Status T T S Cover over: 0 F Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 Total Number of Dominant Species Species That Are OBL, FACW, or FAC: 100 Prevalence Index worksheet: Total % Cover of: Multiply b OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide data in Remarks or on a separate sh	(B)
1	Cover	That Are OBL, FACW, or FAC: 3 Total Number of Dominant Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 Prevalence Index worksheet:	(B) (A/B
O	Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply b OBL species FACW species FAC species FACU species FACU species Y 4 = UPL species Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Y 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide)	(A/B
	Cover Cover Cover Cover Cover Cover Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply b OBL species FACW species FAC species FACU species Y 4 = UPL species Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Y 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide)	(A/B
	Cover O F F C C C C C C C C C C C C C C C C C	That Are OBL, FACW, or FAC:	oy: (B) on
50% of total cover:	Cover O F F U COVER COVE	Total % Cover of: Multiply b OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide)	(B)
0	over: 0	OBL species	(B)
50% of total cover:	over: 0	OBL species	(B)
Sapling/Shrub Stratum (Plot size: 15')	F F U C C C C C C C C C C C C C C C C C	FACW species $x 2 = $ FAC species $x 3 = $ FACU species $x 4 = $ UPL species $x 5 = $ Column Totals: $x 5 = $ Whydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation $x 5 = $ 2 - Dominance Test is >50% 3 - Prevalence Index is $x 5 = $ 4 - Morphological Adaptations (Provided)	(B)
Solve of total cover: 0 20% of total covering the stratum (Plot size: 5')	F F C C C C C C C C C C C C C C C C C C	FAC species	(B)
	Cover	FACU species x 4 =	(B)
5	Cover	UPL species x 5 =	(B)
5	Cover	Column Totals: (A)	on (B)
5	Cover	Prevalence Index = B/A =	on e supportin
5	Cover	Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetatio ✓ 2 - Dominance Test is >50% _ 3 - Prevalence Index is ≤3.0¹ _ 4 - Morphological Adaptations¹ (Provide	on e supportin
5	Cover	Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetatio ✓ 2 - Dominance Test is >50% _ 3 - Prevalence Index is ≤3.0¹ _ 4 - Morphological Adaptations¹ (Provide	on e supportin
5	Cover	 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provided) 	e supportin
5		 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide 	e supportin
0	Cover	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide	
$\frac{0}{50\% \text{ of total cover:}} = \frac{0}{20\% \text{ of total cover}}$ Herb Stratum (Plot size: $\frac{5'}{}$)	_	4 - Morphological Adaptations ¹ (Provide	
50% of total cover: 0 20% of total college Stratum (Plot size: 5')	_		
Herb Stratum (Plot size: 5'		data in Remarks or on a senarate sh	neet)
		data in remarke or on a coparate on	,
_{1.} Juncus effusus 45	FACW -	Problematic Hydrophytic Vegetation ¹ (E	xplain)
Agrostis stoloniferia 20	171011		
Scirpus cyperianus 20	- TAOW 1	¹ Indicators of hydric soil and wetland hydrological	
Carex vulopnoidea 10	b	be present, unless disturbed or problematic.	
		Definitions of Four Vegetation Strata:	
5. Juncus bufonius	FACW	Tree – Woody plants, excluding vines, 3 in.	(7.6 cm) o
S		more in diameter at breast height (DBH), reg	
7	h	height.	
3		Sapling/Shrub – Woody plants, excluding v	inas lass
)		than 3 in. DBH and greater than or equal to	
0	n	m) tall.	
l1		Herb – All herbaceous (non-woody) plants,	ranardlass
100 = Total		of size, and woody plants less than 3.28 ft to	
50% of total cover: 50 20% of total co	over: 20		0.00 (; ;
Noody Vine Stratum (Plot size: 15')		Woody vine – All woody vines greater than height.	3.28 ft in
		neight.	
2			
3			
	 -		
· · · · · · · · · · · · · · · · · · ·		Hydrophytic	
5		Vegetation Present? Yes ✓ No	
	Cover	103 <u>.</u> 103	
50% of total cover:0 20% of total c	over: 0		
Remarks: (Include photo numbers here or on a separate sheet.)			

SOIL Sampling Point: W-B51

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	the abse	ence of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	<u>Textur</u>	re Remarks
0-2	10yr 3/2	100					L	
2-12	10yr 5/1	80	10yr 4/6	20	С	M/PL	С	
						· ——		
						· ——	-	
						· ——		
					· 			
¹Type: C=Ce	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil		•	,					ndicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be		ice (S8) (I	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ick (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			1 DD N		
	lucky Mineral (S1) (L \ 147, 148)	.KK N,	Iron-Mangan		es (F12) (LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	/MI DA 13	RE 122\		³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				.8)	wetland hydrology must be present,
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):				_ · / (,	aooo a.eta.zea e. p.ez.ea.e.
	avel/rock							
	ches): 12						Hydric	Soil Present? Yes 🗸 No
							Hydric	100 11 103 110 110 110 110 110 110 110 1
Remarks:	ravel within the s	oil profile	3					
Coai and y	iavei witiiiii tile s	on prome	.					



Photograph Direction SE

Comments:		

Project/Site: MVP		City/C	ounty: Lewis		Sampling Date: 05/29/2015
Applicant/Owner: MVP			,		Sampling Point: W-B51-UP
Investigator(s): C. Ansari, M. Whit	ten, M. Brice	Section	on, Township, Range: N/		_ ,
Landform (hillslope, terrace, etc.): Ter					Slope (%): 1
Subregion (LRR or MLRA): LRRN					Datum: NAD 83
Soil Map Unit Name: Janelew chan					
Are climatic / hydrologic conditions on t					
Are Vegetation, Soil, or		-			
Are Vegetation, Soil, or				explain any answe	
SUMMARY OF FINDINGS – A	-				
			.p9 po	,	, p
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
Upland					
HYDROLOGY					
Wetland Hydrology Indicators:				<u> </u>	tors (minimum of two required)
Primary Indicators (minimum of one is				Surface Soil	
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Pat	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced	` '		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burn	
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	— '	Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imag	ony (P7)			Geomorphic Shallow Aqui	
Water-Stained Leaves (B9)	ery (B7)				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	
Field Observations:				17.0 1404141	1001 (20)
	No 🗸	Depth (inches):			
		Depth (inches):			
		Depth (inches):		lydrology Presen	t? Yes No ✔
(includes capillary fringe) Describe Recorded Data (stream gau		. , , ,			
Describe Recorded Data (stream gad	ge, monitoring w	eli, aeriai priotos, pre	vious irispections), ii ava	liable.	
Remarks:					
Upland plot					

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

Sampling Point: W-B51-UP1

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
inee ottatum (i lot size)	% Cover	-		Number of Dominant Species	0	(4)
1				That Are OBL, FACW, or FAC:		(A)
3				Total Number of Dominant Species Across All Strata:	3	(B)
4						(D)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
6				That Are OBL, I ACW, OF I AC.		(A/D)
7				Prevalence Index worksheet:		
	0 .	= Total Cov	ver		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 Indicate	ors:	
7				1 - Rapid Test for Hydrophytic	c Vegetation	
8		-		2 - Dominance Test is >50%		
9	^	= Total Cov		3 - Prevalence Index is ≤3.0¹		
50% of total cover: 0				4 - Morphological Adaptations	s ¹ (Provide sup	porting
Herb Stratum (Plot size: 5')				data in Remarks or on a se		
1. Poa pratensis	25	✓	FACU	Problematic Hydrophytic Vege	etation ¹ (Expla	in)
2. Bromus inermus	25	V	FACU	4		
3. Trifolium repens	20	~	FACU	¹ Indicators of hydric soil and wetla be present, unless disturbed or pre-		must
4. Melilotus officinale	15		F <u>ACU</u>	Definitions of Four Vegetation S		
5. Carex vulponoidea	10		FACW_			,
6				Tree – Woody plants, excluding vi more in diameter at breast height		
7				height.	(22.1), 10ga.a.	
8				Sapling/Shrub – Woody plants, e	excluding vines	. less
9				than 3 in. DBH and greater than o		
10				m) tall.		
11				Herb – All herbaceous (non-wood		rdless
50% of total cover: _ 47.5		= Total Cov		of size, and woody plants less tha	n 3.28 ft tall.	
Woody Vine Stratum (Plot size: 15')	20 / 01	total cover		Woody vine – All woody vines gre	eater than 3.28	3 ft in
1				height.		
2.						
3						
4.				Hadran bada		
5.				Hydrophytic Vegetation		
	0	= Total Cov	ver	Present? Yes	No <u>/</u>	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

SOIL Sampling Point: W-B51-UP1

Profile Desc	ription: (Describe t	o the dep	th needed to docun	nent the i	indicator	or confirm	the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10yr 4/3	100					L	
2-6	10yr 4/2	90	10yr 5/6	10	С	M/PL	CL	
						11		
¹Type: C=Co	oncentration, D=Depl	etion RM-	-Reduced Matrix MS	S-Masker	d Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		Cuon, ruivi-	-reduced Matrix, Me	J-Masket	J Garia Gri	ли ю.	Ind	licators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				-,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (LRR N,		
	A 147, 148) Gleyed Matrix (S4)		MLRA 130		/MIDA 12	6 122\	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):		110011 0101111	natoriai (i			<u>,</u>	arricos distarbos en problemane.
Type: Ro								
Depth (inc							Hydric S	oil Present? Yes 🗸 No
	Cries). <u>-</u>						Tiyunc 3	on resent: res No
Remarks:								

Project/Site: MVP	City/C	county: Lewis		Sampling Date: 05/29/2015	
Applicant/Owner: MVP			Sampling Point: W-B54		
Investigator(s): C. Ansari, M. Whitten, M.	I. Brice Section				
Landform (hillslope, terrace, etc.): Hillslope	Local reli	ef (concave, convex, nor	_{ne):} Concave	Slope (%): 5	
Subregion (LRR or MLRA): LRRN				Datum: NAD 83	
Soil Map Unit Name: Gilpin-Upshur silt loams, 35 to 70 percent slopes, severely eroded (GwF3) NWI classification: None					
Are climatic / hydrologic conditions on the site	typical for this time of year? Y	es / No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrol	ogy significantly disturl	bed? Are "Normal	Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrol					
SUMMARY OF FINDINGS – Attach					
Hydrophytic Vegetation Present? Yes	s			1	
	s / No	Is the Sampled Area	Yes 🗸	No	
	s / No	within a Wetland?	res	NO	
Remarks: Cowardin Code:PEM HGM: SLOPE WT: NRPWW					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil (
Surface Water (A1)	True Aquatic Plants (etated Concave Surface (B8)	
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)					
Saturation (A3)	Oxidized Rhizosphere	= : : :	Moss Trim Li	, ,	
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduced Recent Iron Reduction	, ,	Ory-Season v	Nater Table (C2)	
Orift Deposits (B3)	Thin Muck Surface (C		-	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Ren			ressed Plants (D1)	
Iron Deposits (B5)		,	Geomorphic I		
Inundation Visible on Aerial Imagery (B7	·)		Shallow Aquit		
Water-Stained Leaves (B9)			Microtopogra	phic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)	
Field Observations:					
Surface Water Present? Yes N	No Depth (inches):	1			
Water Table Present? Yes N	No Depth (inches):				
Saturation Present? Yes N (includes capillary fringe)	No Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:					
Wetland located at the toe slope and	i forms along a road.				

Sampling	Point:	W-B54
Januania	I OIIIL.	

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descrit of Descional Consis
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(**2)
7				Prevalence Index worksheet:
	0	= Total Cov	/er	Total % Cover of: Multiply by:
50% 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				()
5				Prevalence Index = B/A =
6		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
•		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')	0.5			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Poa trivialis	35		F <u>ACW</u>	1 Toblematic Hydrophytic Vegetation (Explain)
2. Carex vulpinoidea	30		OBL	1 Indicators of hydric cail and watland hydrology, must
3. Carex sp	10		ND	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Glyceria striata	15	-	<u>OBL</u>	Definitions of Four Vegetation Strata:
{5.} Impatiens capensis	10		FACW	
6. Persacaria sagittaria	20		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8			<u> </u>	
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10		-		m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	120	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 60	20% of	total cover	ver : 24	or size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15')	2070 01	total cover	· <u>-</u> -	Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2		-		
3				
4		-		Hydrophytic
5				Vegetation
•		= Total Cov	_	Present? Yes No
50% of total cover: 0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND - Not Determined.				

SOIL Sampling Point: W-B54

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the	indicator	or confirm	m the absend	ce of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10yr 3/2	90	10yr 4/6	10	С	PL	CL	
2-12	7.5yr 4/3	85	7.5yr 5/6	15	С	PL	С	
						· 		
						- ——	· <u></u>	_
							·	
				-				_
1- 0.0							2,	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ :
Hydric Soil			5 . 6 .	(0-)			ina	· · · · · · · · · · · · · · · · · · ·
Histosol			Dark Surface		(CO) (I	AL DA 447		2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be Thin Dark Su				, 148)	Coast Prairie Redox (A16) (MLRA 147, 148)
Black Hi	en Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(Г2)			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		- 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	, (, , , , ,	Redox Depre					Curer (Explain in resmand)
	lucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		() ,	,		
	Bleyed Matrix (S4)		Umbric Surfa		(MLRA 1	36, 122)	³ lı	ndicators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 1	48)	wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 14	(7)	unless disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric So	oil Present? Yes <u> </u>
Remarks:								



Photograph Direction West

Comments:		

Project/Site: MVP		City/C	county: Lewis		Sampling Date: 05/29/2015
Applicant/Owner: MVP					Sampling Point: W-B54-UP
Investigator(s): C. Ansari, N	Л. Whitten, M. B	rice Section	on, Township, Range: N/		_
Landform (hillslope, terrace, et					Slope (%): 5
Subregion (LRR or MLRA): L					Datum: NAD 83
Soil Map Unit Name: Gilpin-U					
•					
Are climatic / hydrologic condit					_
Are Vegetation, Soil				Circumstances" p	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problemate	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach sit	e map showing san	npling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Pres	ent? Yes	No_ 🗸			
Hydric Soil Present?		No	Is the Sampled Area	W	v
Wetland Hydrology Present?	Yes _	No_ ✓	within a Wetland?	Yes	No
Remarks:					
Upland					
HYDROLOGY					
Wetland Hydrology Indicat	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Par	tterns (B10)
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	ines (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri	
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		tressed Plants (D1)
Iron Deposits (B5)	(D=)				Position (D2)
Inundation Visible on Ae	• • • •			Shallow Aqui	
Water-Stained Leaves (F	39)				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations: Surface Water Present?	Vaa No	Depth (inches):			
Water Table Present?	Yes No	Depth (inches):			
				- Jackson Drocon	No Van
Saturation Present? (includes capillary fringe)	Yes NU _	Depth (inches):	Wetianu n	lyarology Fresen	nt? Yes No
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					
Upland plot					

Sampling Point: W-B54-UP1	· W-B54-UP1
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30,	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
_{1.} Juglans nigra	40		<u>FACU</u>	That Are OBL, FACW, or FAC:1 (A)
2. Liriodendron tulipifera	30		FACU_	Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				(=)
		-		Percent of Dominant Species That Are OBL FACW or FAC: 20% (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6			·	Prevalence Index worksheet:
7				
		= Total Cov		
50% of total cover: <u>35</u>	20% of	total cover	: <u>14</u>	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Rosa multiflora	20	✓	FACU	FAC species x 3 =
2.				FACU species x 4 =
				UPL species x 5 =
3		-		
4		-		Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7			_	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8			· ——	2 - Dominance Test is >50%
9	20			3 - Prevalence Index is ≤3.0 ¹
40		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:10	20% of	total cover	:4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Arthraxon hispidus	50		F <u>AC</u>	Problematic Hydrophytic Vegetation (Explain)
2. Poa pratensis	10		F <u>ACU</u>	
3. Toxicodendron radicans	5		FAC	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
		-	· ——	
11				Herb – All herbaceous (non-woody) plants, regardless
20.7		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>32.5</u>	20% of	total cover	:13	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')	_	_		height.
1. Lonicera sempervirens	5		<u>FACU</u>	
2				
3.				
			-	
4			· ——	Hydrophytic
5				Vegetation Present? Yes No
0.5		= Total Cov		rieseiit: ies No
50% of total cover: 2.5	20% of	total cover	:	
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-B54-UP1

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	n the abso	ence of indicators.)	
Depth	Matrix			x Features	3				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Textu	re Remarks	
0-3	10yr 3/3	100					L		
3-14	10yr 4/4	100					CL		
									_
							-		
-							-		
1Type: C-C	oncentration, D=Depl	etion RM-	Reduced Matrix MS	S-Maskad	Sand Gra	ine	² Locatio	n: PL=Pore Lining, M=Matrix.	
Hydric Soil		Guori, ixivi—	reduced Matrix, Mc	J-IVIASKEU	Sand Ore	ui i 3.	Locatio	ndicators for Problematic Hydric Soils ³ :	
Histosol			Dark Surface	(S7)			-	2 cm Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	LRA 147	148)	Coast Prairie Redox (A16)	
Black Hi			Thin Dark Su					(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye			,		Piedmont Floodplain Soils (F19)	
	Layers (A5)		Depleted Ma					(MLRA 136, 147)	
	ick (A10) (LRR N)		Redox Dark	Surface (F	6)		_	Very Shallow Dark Surface (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar				_	Other (Explain in Remarks)	
	ark Surface (A12)		Redox Depre						
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	_RR N,			
	147, 148)		MLRA 13		MI DA 42	6 400\		3Indicators of hydrophytic vocatation and	
	edox (S5)		Umbric Surfa Piedmont Flo				10)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,	
	Matrix (S6)		Red Parent N					unless disturbed or problematic.	
	_ayer (if observed):		Red r arent n	naterial (i	Z I) (IVILIX	7 127, 177	', 	unicss disturbed of problematic.	
Type:	-ayo: (oboo. voa).								
• • •	ches):						Lludria	Soil Present? Yes No	
	Jiles)						пушть	Son Flesent: Tes No	
Remarks:									

Project/Site: MVP		City/C	county: Lewis		Sampling Date: 05/20/2015			
Applicant/Owner: MVP				Sampling Point: W-H112				
Investigator(s): A.Stott, A.Grech, D. McCullough Section, Township, Range: N/A								
Landform (hillslope, terrace, etc.)	Terrace	Local reli	ief (concave, convex, non	ne): Concave	Slope (%): 0-3%			
Subregion (LRR or MLRA): LRF					Datum: NAD 83			
Soil Map Unit Name: Gilpin-Upshur silt loams, 35 to 70 percent slopes, severely eroded NWI classification: None								
Are climatic / hydrologic condition	s on the site typic	cal for this time of year? Y	res No (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantly disturbed?								
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present	? Yes	V No_						
Hydric Soil Present?	Yes		Is the Sampled Area	V V	NI -			
Wetland Hydrology Present?			within a Wetland?	Yes	No			
Remarks:								
Cowardin Code: PEM								
HGM: slope								
WT: NRPWW								
HYDROLOGY								
Wetland Hydrology Indicators	<u>. </u>			Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of		heck all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	one is required, e	True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)				_				
✓ Saturation (A3) ✓ Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C4)								
Sediment Deposits (B2)	rows (C8)							
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4)		Stunted or Stressed Plants (D1)						
Iron Deposits (B5)	Geomorphic	Geomorphic Position (D2)						
Inundation Visible on Aerial	Imagery (B7)			Shallow Aqu	itard (D3)			
Water-Stained Leaves (B9) Microtopographic Relief (D4)								
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):						
Water Table Present?	Yes <u> / </u>		0"					
	Yes 🖊 No _	Depth (inches):	0" Wetland H	ydrology Preser	nt? Yes <u>/</u> No			
(includes capillary fringe) Describe Recorded Data (strear	n gauge, monitor	ing well, aerial photos, pre	vious inspections), if avai	ilable:				
	gaage,e.	g, aciiai piicice, pie						
Remarks:								

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	2	(
1				That Are OBL, FACW, or FAC: _		(A)
3				Total Number of Dominant Species Across All Strata:	3	(B)
4.				_		(2)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
6						. (" -)
7				Prevalence Index worksheet: Total % Cover of:	Multiply by:	
•		= Total Cov	_	OBL species x 1	Multiply by:	
50% of total cover: 0	20% of	total cover	:0	FACW species x 2		
Sapling/Shrub Stratum (Plot size: 15') 1 Rosa multiflora	10	/	FACIL	FAC species x 3		
· ''-			FACU_	FACU species x 4		
2				UPL species x 5		
3				Column Totals: (A)		
4				()	•	_ (-)
5				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate		
7				1 - Rapid Test for Hydrophytic	: Vegetation	
8				2 - Dominance Test is >50%		
<u> </u>	40	= Total Cov	/er	3 - Prevalence Index is ≤3.0 ¹	1	
50% of total cover:5				4 - Morphological Adaptations		
Herb Stratum (Plot size: 5')				data in Remarks or on a se	. ,	
1. Leersia virginica	30		F <u>ACW</u>	Problematic Hydrophytic Vege	etation' (Expla	iin)
2. Microstegium vimineum	30		FAC	11. diseases of booking and an almost	and broaden be accom-	
3. Juncus effusus	10		F <u>ACW</u>	¹ Indicators of hydric soil and wetla be present, unless disturbed or pro		must
4. Carex gigantea	10		<u>OBL</u>	Definitions of Four Vegetation S		
5. Verbesina alternifolia	5		F <u>AC</u>			,
6. Packera aurea	5		F <u>ACW</u>	Tree – Woody plants, excluding vi more in diameter at breast height		
7				height.	(), -3	
8				Sapling/Shrub – Woody plants, e	xcludina vines	s. less
9				than 3 in. DBH and greater than or	r equal to 3.28	3 ft (1
10				m) tall.		
11				Herb – All herbaceous (non-wood		ardless
50% of total cover: <u>45</u>		= Total Cover		of size, and woody plants less that	n 3.28 ft tall.	
Woody Vine Stratum (Plot size: 15')	20% 01	total cover		Woody vine – All woody vines gre	eater than 3.28	3 ft in
1				height.		
2						
3						
4						
5.				Hydrophytic Vegetation		
	^	= Total Cov	/er	Present? Yes	No	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-H112

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es	-		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6"	5yr 4/2	95	7.5yr 4/6	5	<u>C</u>	<u> PL </u>	C	
6-20"	5yr 5/2	95	7.5yr 4/6	5	С	PL	GrC	
		· ——			-			
	-	· ——						
		· ——		-				-
	-	· ——						-
¹Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Maske	d Sand Gi	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		,	,					ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ace (S8) (I	VILRA 147		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su					(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		P	riedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	,	,			ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Da				C	Other (Explain in Remarks)
	ork Surface (A12)	DD 11	Redox Depre			(I DD N		
	lucky Mineral (S1) (L	LRR N,	Iron-Mangan		ses (F12)	(LRK N,		
	147, 148) leyed Matrix (S4)		MLRA 13 Umbric Surfa	•	/MI D A 1	26 122\	³ Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):	<u> </u>		viatoriai (i	21) (III.	121, 14	1) un	icos distarbed of problematic.
Type:								
Depth (inc	shoc):						Hydric Soil	Present? Yes No
							Hydric 30ii	Fresent: TesNO
Remarks:								



Photograph Direction West

Comments:		

Project/Site: MVP			City/C	County: Lewis		Sampling Date: 05/20/2015		
Applicant/Owner: MVP						Sampling Point: W-H112-UP1		
Investigator(s): A.Stott, A.Grech,	D. McCulloug	jh	Secti					
Landform (hillslope, terrace, etc.): Si				·		Slope (%): 0-4%		
Subregion (LRR or MLRA): LRRN						Datum: NAD 83		
Soil Map Unit Name: Gilpin-Upshur s								
Are climatic / hydrologic conditions on								
Are Vegetation, Soil, o								
Are Vegetation, Soil, Coll, Soil, Coll, Coll					l, explain any answe			
SUMMARY OF FINDINGS –								
			<u> </u>		<u> </u>			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		<u>~</u>	Is the Sampled Area				
Wetland Hydrology Present?	Yes		<u> </u>	within a Wetland?	Yes	No		
Remarks: Upland								
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one	is required; chec	k all that a	pply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	_	True Aqu	atic Plants ((B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)			n Sulfide Od		-	atterns (B10)		
Saturation (A3)	_			es on Living Roots (C3				
Water Marks (B1)			of Reduce			Water Table (C2)		
Sediment Deposits (B2)	_			on in Tilled Soils (C6)	Crayfish Bu			
Drift Deposits (B3)			k Surface ((risible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Ex	cplain in Rei	marks)		Stressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aerial Ima	igen/ (B7)				Shallow Aqu	Position (D2)		
Water-Stained Leaves (B9)	gory (Br)					aphic Relief (D4)		
Aquatic Fauna (B13)					FAC-Neutra			
Field Observations:						, ,		
Surface Water Present? Yes	No	Depth (ii	nches):					
	No							
	No				d Hydrology Prese	nt? Yes No		
(includes capillary fringe) Describe Recorded Data (stream ga	uge monitoring v	vell aerial	nhotos pre	evious inspections) if a	vailable:			
Describe Necorded Data (stream ga	uge, monitoring v	well, aeriai	priotos, pro	vious inspections), ii a	valiable.			
Remarks:								
1								

Sampling	Point: W-	H112-UP1
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30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Carya ovata	20		<u>FACU</u>	That Are OBL, FACW, or FAC:1 (A)
2. Juglans nigra	10		FACU_	Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Openies / toress / till etrata.
		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25% (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:15	20% of	total cover:	6	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Elaeagnus umbellata	80	~	UPL	FAC species x 3 =
		-		FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6			_	
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 40	20% of	total cover:	16	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Microstegium vimineum	30	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
· · · · · · · · · · · · · · · · · · ·				
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				noight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	30	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:		
Woody Vine Stratum (Plot size: 15')	<u></u>			Woody vine – All woody vines greater than 3.28 ft in
,	10			height.
1				
2				
3				
4				Hydrophytic
5.				Vegetation
	10	= Total Cov	er	Present? Yes No
50% of total cover: 5		total cover:	_	
Remarks: (Include photo numbers here or on a separate s			·	
Tremane. (morade priote numbers here or on a separate e				

SOIL Sampling Point: W-H112-UP1

Trome Description: (Describe to the depth)	needed to document the indicator or confirm t	the absence of indicators.)
Depth Matrix	Redox Features	
	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-4" 7.5yr 3/2 100		SiL
4-20" 7.5yr 4/3 100		CL
¹ Type: C. Concentration D. Donletion DM Re	adveced Metrix MC Meetred Cond Crains	2l costion, Dl. Doro Lining M. Matrix
¹ Type: C=Concentration, D=Depletion, RM=Re Hydric Soil Indicators:	educed Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
	Dade Confess (CZ)	-
Histosol (A1) Histic Epipedon (A2)	Dark Surface (S7)Polyvalue Below Surface (S8) (MLRA 147, 1	2 cm Muck (A10) (MLRA 147) 48) Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
	Red Parent Material (F21) (MLRA 127, 147)	unless disturbed or problematic.
• •	_	
Depth (inches):	_	Hydric Soil Present? Yes No
Remarks:		
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):	Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)	wetland hydrology must be present,

Project/Site: MVP	City/C	_{ounty:} Harrison		Sampling Date: 06/05/2015				
Applicant/Owner: MVP				Sampling Point: W-A39				
Investigator(s): S. Yarbrough, R. Sparhawk, W. Shattenber Section, Township, Range: N/A								
Landform (hillslope, terrace, etc.): Depressional	al Local reli	ef (concave, convex, non	e): Concave	Slope (%): 2-5%				
Subregion (LRR or MLRA): LRRN	Lat: 39.358846	Long: -80.	490747	Datum: NAD 83				
Soil Map Unit Name: Gilpin-Upshur complex								
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Ye	es <u>/</u> No (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturb	ped? Are "Normal	Circumstances" p	oresent? Yes No				
Are Vegetation, Soil, or Hydrology	-		xplain any answe					
SUMMARY OF FINDINGS – Attach sit				,				
Hydrophytic Vegetation Present? Yes	✓ No			-				
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes		Is the Sampled Area	🗸					
Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No				
Remarks: Cowardin Code: PEM HGM: Slope WT	<u> </u>							
Information listed on this form represent presence of wetland hydrology, hydroph was obstructed by timber matting.	s the data collected ir	n 2015. The wetland hydric soils was unab	was revisited ble to be confi	on 09/17/2019. The med because the wetland				
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (I		Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odd	or (C1)	Drainage Patterns (B10)					
Saturation (A3)	✓ Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Lines (B16)					
Water Marks (B1)	Presence of Reduced	Iron (C4)	Dry-Season	Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Buri	rows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C	57)	Saturation Vi	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Rem	narks)	Stunted or St	tressed Plants (D1)				
Iron Deposits (B5)			✓ Geomorphic	Position (D2)				
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)					
<u>✓</u> Water-Stained Leaves (B9)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)				
Field Observations:								
	Depth (inches):							
	Depth (inches):							
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland H	ydrology Presen	t? Yes <u>/</u> No				
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, pre	vious inspections), if avai	lable:					
Remarks:								
Old access road.								

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

2. Liriodendron tulipifera 5 ✓ FACU

2. Carex lurida 30 ✓ OBL 3. Microstegium vimineium 20 ✓ FAC

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15') 1. Ulmus americana

1. Osmundastrum cinnamomeum

Herb Stratum (Plot size: ___5'

mes of	plants.		Sampling Po	oint: <u>W-A39</u>	
Absolute			Dominance Test worksheet:		
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	5	(A)
			Total Number of Dominant Species Across All Strata:	6	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	83.30%	(A/E
			Prevalence Index worksheet:		
0 .			Total % Cover of:	Multiply by:	
	Total Cov total cover:		OBL species x	1 =	
_ 20% 01	iolai covei.			2 =	
10	√	FACW	· ———	3 =	_
5			· ———	4 =	_
		F <u>ACU</u>	· ———	5 =	_
				A)	(B)
			Prevalence Index = B/A =	:	
			Hydrophytic Vegetation Indica		_
			1 - Rapid Test for Hydrophy		
			2 - Dominance Test is >509	_	
			3 - Prevalence Index is ≤3.0		
<u>15</u> .	= Total Cov	_	4 - Morphological Adaptation		portin
_ 20% of	total cover:	3	data in Remarks or on a		
50			Problematic Hydrophytic Ve		
50		FACW_		ogotation (Explo	,
30 20	<u> </u>	OBL FAC	¹ Indicators of hydric soil and we be present, unless disturbed or		must
			Definitions of Four Vegetation	•	
			Tree – Woody plants, excluding more in diameter at breast height.		
			Sapling/Shrub – Woody plants than 3 in. DBH and greater than m) tall.		
100	Total Cov	 er	Herb – All herbaceous (non-wood size, and woody plants less to		ardless
	total cover:	00	Woody vine – All woody vines	greater than 3.28	3 ft in
_ 20% of	total cover:		of size, and woody plants less the	han 3.28 ft tall.	

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: 15')

Called this a PEM because the red maple is in an upland position with dry soils. The maples merely overhang the wetland; they are not rooted in the delineated wetland area.

50% of total cover: 0 20% of total cover: 0

50% of total cover: $7.5 \overline{)20\%}$ of total cover: 3

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover: 0

SOIL Sampling Point: W-A39

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absen	ce of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1								Leaf litter
2-4"	10YR 4/3	90	7.5YR 5/8	10	С	M/PL	С	
4-10"	10YR 4/6	95	7.5YR 5/8	5	С	M	С	
					-			_
								_
								_
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I							Ind	icators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(00) (1)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black His	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye			47, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Ma		r2)		_	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		-6)			Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre					,
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (_RR N,		
	\ 147, 148)		MLRA 13					
	ileyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7) (unless disturbed or problematic.
	_ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric So	oil Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-A39 Cowardin Code PEM



Photograph Direction SSE

Date: <u>06/05/20</u>15

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 09/17/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	county: Harrison		Sampling Date: 06/05/2015			
					Sampling Point: W-A39 UP			
Investigator(s): S. Yarbrough, R. Sparhawk, W. Shattenberg, K. Lugo Section, Township, Range: N/A								
Landform (hillslope, terrace, etc.): Hill			·		Slope (%): 2-5			
Subregion (LRR or MLRA): LRRN					Slope (%) 0			
Soil Map Unit Name: Gilpin-Upshur								
Are climatic / hydrologic conditions on t	7.7	-						
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes V No No			
Are Vegetation, Soil, or	Hydrology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - A	ttach site m	ap showing sam	pling point location	ns, transects	s, important features, etc.			
Lhydrophytic Vagatation Dracent?	Vac	No. 🗸						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No V	Is the Sampled Area					
Wetland Hydrology Present?	Yes	No V	within a Wetland?	Yes	No			
Remarks:								
UPLAND								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; check	all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	<u> </u>	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Patterns (B10)				
Saturation (A3)		Oxidized Rhizosphere	es on Living Roots (C3)					
Water Marks (B1)		Presence of Reduced	l Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)			
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic	Position (D2)			
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)			
Field Observations:								
Surface Water Present? Yes _	No	Depth (inches):						
		Depth (inches):						
	No	Depth (inches):	Wetland H	lydrology Prese	nt? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gau	ge, monitoring w	rell, aerial photos, pre	 vious inspections), if ava	ilable:				
Remarks: No indicators of wetland hydrol	logy							
indicators of wetland hydrol	logy.							

Sampling	Point:	W-A39	UP

	Absolute	Dominant	Indicator	Deminance Test worksheet:
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1 Acer rubrum	85	<u> </u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
2. Populus grandidentata	15			That Are OBL, FACW, or FAC:3 (A)
			FACU_	Total Number of Dominant
3				Species Across All Strata: 6* (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50% (A/B)
6				
7.				Prevalence Index worksheet:
	100	= Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover: 50		total cover		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	2070 0.	10101 00101		FACW species x 2 =
1 Ulmus americana	20	~	FACW	FAC species x 3 =
·· ·		·	IACVV	FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Description on Index. D/A
6				Prevalence Index = B/A =
		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 10	20% of	total cover	:4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				,
1. Fragaria virginiana	10	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Quercus rubra	10	V	FACU	
3. Carya ovata	10		FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Panicum sp.	10			be present, unless disturbed or problematic.
			ND	Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
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				my can
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 20	20% of	total cover	:8	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1. Smilax rotundifolia	10		FAC	
2				
3				
4				Hydrophytic
5	4.0	-		Vegetation
_		= Total Cov	_	Present? Yes No
50% of total cover:5	20% of	total cover	:2	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND - Not Determined.				
* Vegetation and IDId to an exical level and include	ممائمات	.:	4	
* Vegetation not ID'd to species level not include	ea in don	iinance te	est.	

Sampling Point: W-A39 UP

Profile Desc	ription: (Describe t	o the depth	n needed to docum	nent the ir	dicator	or confirm	the absenc	e of indica	tors.)		
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remar	ks	
0-1									Leaf	litter	
1-12	10YR 5/4	100					CL				
	10111014										
								-			
1	·						2				
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.			ning, M=Mat		3
Hydric Soil I	ndicators:						Indi	cators for F	Problemation	Hydric S	oils":
Histosol			Dark Surface						(A10) (MLR		
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) (N	ILRA 147,	148)	Coast Prair	ie Redox (A	16)	
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		_	Piedmont F	Toodplain So	oils (F19)	
Stratified	l Layers (A5)		Depleted Mat	rix (F3)				(MLRA 1	36, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6	3)			Very Shallo	w Dark Surf	ace (TF12)
Depleted	Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		_	Other (Expl	ain in Rema	ırks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)						
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	s (F12) (I	_RR N,					
MLRA	147, 148)		MLRA 13	6)							
	leyed Matrix (S4)		Umbric Surfa	ce (F13) (I	MLRA 13	6, 122)	³ lr	dicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo						ology must	-	
	Matrix (S6)		Red Parent N					-	bed or prob		•
	ayer (if observed):				, ,		<u>, </u>		<u> </u>		
Type:	,										
	shaa).		<u>——</u>				Usalaia Ca	il Present?	Vac	Na	✓
Depth (inc	nes):		_				nyaric 30	ii Present?	Yes	No _	
Remarks:											
ino evidend	e of a hydric soil	nere.									

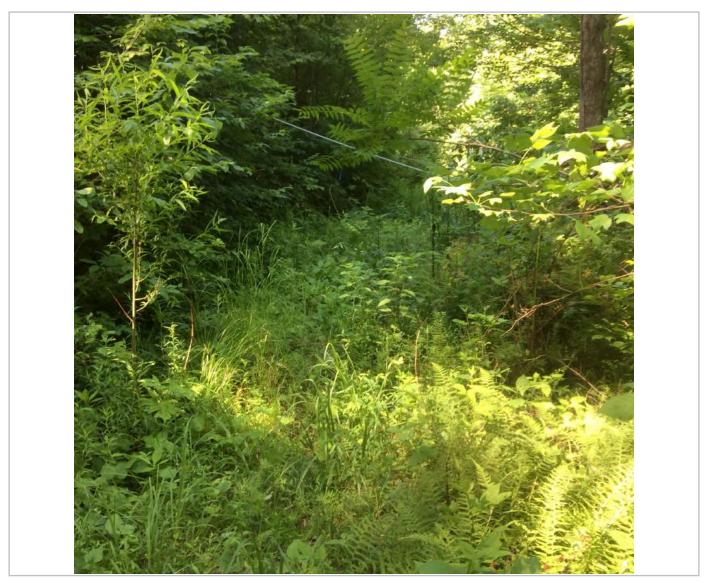
Project/Site: MVP	City/C	ounty: Harrison		Sampling Date: 07/14/2016			
Applicant/Owner: MVP		State: WV					
• •							
Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Convex Slope							
Subregion (LRR or MLRA): LRR N				Datum: NAD 83			
Soil Map Unit Name: Gilpin-Upshur comple							
Are climatic / hydrologic conditions on the sit							
Are Vegetation, Soil, or Hydro			ircumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydro	ology naturally problema	atic? (If needed, exp	olain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attac	h site map showing sam	pling point location	s, transects	, important features, etc.			
Hydrophytic Vegetation Present? Y	es No						
Hydric Soil Present? Y	′es No_ ✓	Is the Sampled Area within a Wetland?	Yes 🗸	No			
Wetland Hydrology Present? Y	res No	within a wettand?	162	NO			
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: N	RPWW				
Comarain Code: EN	Trom Glopo	Water Type: M					
HYDROLOGY							
Wetland Hydrology Indicators:		·		tors (minimum of two required)			
Primary Indicators (minimum of one is requ			Surface Soil	` '			
Surface Water (A1)	True Aquatic Plants (getated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat				
Saturation (A3)		es on Living Roots (C3)	Moss Trim Li				
Water Marks (B1)	Presence of Reduced Recent Iron Reduction		Dry-Season Crayfish Buri	Water Table (C2)			
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C		-	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rer			tressed Plants (D1)			
Iron Deposits (B5)	Outer (Explain in reci	<u></u>	Geomorphic				
Inundation Visible on Aerial Imagery (E	37)	_	Shallow Aqui				
Water-Stained Leaves (B9)	,	_		phic Relief (D4)			
Aquatic Fauna (B13)		<u>.</u>	FAC-Neutral				
Field Observations:							
	No Depth (inches):						
Water Table Present? Yes	No Depth (inches):	0					
Saturation Present? Yes	No Depth (inches):	0 Wetland Hye	drology Presen	t? Yes <u>/</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well perial photos pre	vious inspections) if availa	phle:				
Beschbe Recorded Bata (stream gauge, m	ormoring wen, aeriai priotos, pre	vious irispections), ir availa	ioic.				
Remarks:							
Within old roadbed							

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

Sampling Point: W-ST11

20'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				
5		-		Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
			-	That Are OBL, FACW, or FAC:(A/B)
6		-		Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
500/ - () - () - () - ()		= Total Co		OBL species x 1 =
4.51	20% of	total cover	:	FACW species x 2 =
Caping/Onitab Stratum (1 lot 3/26)	_	,		
1. Salix nigra	5		OBL	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				5
6				Prevalence Index = B/A =
7		'		Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	_			3 - Prevalence Index is ≤3.0 ¹
4		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 2.5	20% of	total cover	:!	data in Remarks or on a separate sheet)
Heib Stratum (Flot Size)	4-			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Onoclea sensibilis	15		F <u>ACW</u>	1 Toblematio Trydrophytio Vegetation (Explain)
2. Boehmeria cylindrica	25		FACW_	11 office term of hoods's and an allow do and hoods are secured
3. Dichanthelium scabriusculum	20		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex lurida	10		OBL	Definitions of Four Vegetation Strata:
5. Carex vulpinoidea	10		OBL	Deminions of Four Vegetation Strata.
6. Dichanthelium clandestinum	15	V	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7 Agrimonia parviflora	10		FACW	more in diameter at breast height (DBH), regardless of height.
8 Microstegium vimineum	10		FAC	neight.
-		-	1710	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:57.	20% of	total cover	: 23	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0	= Total Cov		Vegetation Present? Yes ✓ No
50% of total cover: 0		total cover	_	
		total cover		
Remarks: (Include photo numbers here or on a separate s	sneet.)			

Depth inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features	Type ¹	Loc ²	Texture		Remar	ko	
0-12	7.5YR 4/2	50	7.5YR 5/6	·	C	M/PL	SAL		Kemai	KS	
0-12	-		7.518.5/0		<u> </u>	IVI/FL	<u> </u>				
	10YR 4/2	35									
/pe: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked S	and Grai	ns.	² Location: PL=				
dric Soil	Indicators:						Indicate	ors for Pr	oblematic	Hydric So	oils ³ :
Histosol	, ,		Dark Surface	(S7)			2 cı	m Muck (A	410) (MLR	A 147)	
	pipedon (A2)		Polyvalue Be						Redox (A	16)	
Black Hi			Thin Dark Su			7, 148)		MLRA 14			
	n Sulfide (A4)		Loamy Gleye		()				odplain So	oils (F19)	
	d Layers (A5)		Depleted Ma					MLRA 13		(TE 4.0)	
	ick (A10) (LRR N) d Below Dark Surface	(//1/	Redox Dark : Depleted Dark :						n in Rema	ace (TF12)	.)
	ark Surface (A12)	(A11)	Redox Depre		7)		Ou	iei (Expiai	III III Kellia	iks)	
	fucky Mineral (S1) (L	RR N.	Iron-Mangan		(F12) (I	RR N					
-	147, 148)	,	MLRA 13		(1 12) (1	,					
	Gleyed Matrix (S4)		Umbric Surfa	•	LRA 136	, 122)	³ Indica	ators of h	drophytic	vegetation	and
	Redox (S5)		Piedmont Flo							be present	
	Matrix (S6)		Red Parent N					-	ed or probl		
estrictive l	Layer (if observed):										
Type: Re	efusal CF										
Depth (in	ches): 12						Hydric Soil P	resent?	Yes	No_	~
marks:											



Photograph Direction NE

Comments:	

Project/Site: MVP		City/County	_{r:} Harrison		Sampling Date: 07/14/2016		
Applicant/Owner: MVP		_ , ,			Sampling Point: W-ST10 & 1		
Investigator(s): JMM DNQ							
Landform (hillslope, terrace, et		Section, To	-		Slope (%): 5		
Subregion (LRR or MLRA): L	,		Long: <u>-80</u>		Datum: NAD 83		
Soil Map Unit Name: Gilpin-L							
				<u>-</u>			
Are climatic / hydrologic condit		•		•	· · · · · · · · · · · · · · · · · · ·		
Are Vegetation, Soil					present? Yes No		
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, e	explain any answe	ers in Remarks.)		
SUMMARY OF FINDIN	GS – Attach site	map showing samplin	g point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Pres	ent? Yes	No V					
Hydric Soil Present?		No 🗸	ne Sampled Area nin a Wetland?	Vos	No <u>✓</u>		
Wetland Hydrology Present?		No	iii a wellaliu:	165			
Remarks: Cowardin C	ode: UPLAND	HGM:	Water Type:				
HYDROLOGY							
Wetland Hydrology Indicat					ators (minimum of two required)		
Primary Indicators (minimum	of one is required; ch				Cracks (B6)		
Surface Water (A1)	_	_ True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	-	Hydrogen Sulfide Odor (C1Oxidized Rhizospheres on		Drainage Patterns (B10) Moss Trim Lines (B16)			
Saturation (A3) Water Marks (B1)	_	Dridized Knizospheres on Presence of Reduced Iron	=		Water Table (C2)		
Sediment Deposits (B2)	_	Recent Iron Reduction in T	, ,	Crayfish Bu			
Drift Deposits (B3)	_	Thin Muck Surface (C7)		-	/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Remarks))		Stressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aqu	uitard (D3)		
Water-Stained Leaves (E	39)			Microtopogr	aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	Il Test (D5)		
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):	-				
Water Table Present?		Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	_ Wetland F	Hydrology Prese	nt? Yes No		
	eam gauge, monitoring	g well, aerial photos, previous	inspections), if ava	ailable:			
Damada							
Remarks:							

Sampling Point:	W-ST10 & 11	UP
-----------------	-------------	----

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	Status	
1 Liriodendron tulipifera	30		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2 Carya ovata	10	~		That Are OBE, I AGW, OF I AG (A)
		-	FACU_	Total Number of Dominant
3. Acer rubrum	10		FAC	Species Across All Strata:10(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				
7.				Prevalence Index worksheet:
·	50	Tatal Cau		Total % Cover of: Multiply by:
500/ -{ 25		= Total Cov		OBL species x 1 =
50% of total cover: <u>25</u>	20% 01	total cover:	10	
Sapling/Shrub Stratum (Plot size: 15')	40			FACW species x 2 =
1. Prunus serotina	10		FACU_	FAC species x 3 =
2. Liriodendron tulipifera	25		FACU_	FACU species x 4 =
3. Rosa multiflora	10	✓	FACU	UPL species x 5 =
4. Carpinus caroliniana	10		FAC	Column Totals: (A) (B)
· ·			1 // /	
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
<u> </u>	55	Tatal Cau		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 27.5		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
- !	20% 01	total cover:		data in Remarks or on a separate sheet)
(1 lot size.	00			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Parathelypteris noveboracensis	30		F <u>AC</u>	1 Toblematic Tryarophytic Vegetation (Explain)
2. Dichanthelium clandestinum	30		FAC	4
3. Onoclea sensibilis	5		FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Rubus allegheniensis	20		FACU	be present, unless disturbed or problematic.
		-	1/100	Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
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				THIS COMME
11		-		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>42.5</u>	20% of	total cover:	1/	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1.				
2.				
3.				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover:0_	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			
	,			

Profile Desc	ription: (Describe to	the depth	needed to docun	nent the in	ndicator c	r confirm	the absence	of indicate	ors.)		
Depth	Matrix			K Features		1002	Taytura		Domorle	•	
(inches) 0-6	Color (moist) 7.5YR 4/3		Color (moist)	<u></u> %	Type ¹	Loc ²	Texture SIL		Remark	<u>S</u>	
6-12	7.5YR 4/4	100					SIL				
0-12	7.51114/4	100	_				<u> </u>				
											-
			_								
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	=Masked	Sand Gra	ins.	² Location: P				
Hydric Soil I									roblematic	-	ils':
Histosol	(A1) pipedon (A2)		Dark Surface Polyvalue Be		o (SS) (M	I D A 147			A10) (MLR<i>A</i> e Redox (A1		
Black Hi			Thin Dark Su				140)	MLRA 14)		0)	
	n Sulfide (A4)		Loamy Gleye	. ,	•	,,	F		oodplain Soi	ls (F19)	
	I Layers (A5)		Depleted Mat					(MLRA 13			
	ck (A10) (LRR N)	(444)	Redox Dark S						v Dark Surfa		
	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Dar Redox Depre				_ `	Julei (Expla	in in Remar	KS)	
	lucky Mineral (S1) (Li	RR N,	Iron-Mangane			.RR N,					
	147, 148)		MLRA 136	-			2				
	leyed Matrix (S4)		Umbric Surfa						ydrophytic v		and
	edox (S5) Matrix (S6)		Piedmont Flo Red Parent M						ology must be ed or proble		
	ayer (if observed):		red r drent iv	iatoriai (i z	er) (MERC)	(127, 147		ilooo diotara	ed of proble	matio.	
Type:			<u>_</u>								
Depth (inc	ches):		<u> </u>				Hydric Soi	I Present?	Yes	No	✓
Remarks:							L				
Along old r	oad bed										

Project/Site: MVP	City/County: Harrison	S	Sampling Date: 07/14/2016
Applicant/Owner: MVP			Sampling Point: W-ST12 PSS
	Section, Township, Range: N		
Landform (hillslope, terrace, etc.): Floodplain			Slone (%): 0-3
Subregion (LRR or MLRA): LRR N	Lat: 39.337411 Long: -80		
Soil Map Unit Name: Gilpin-Upshur complex, 15	_		
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	I Circumstances" pre	esent? Yes V No No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed,	explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling point location	ons, transects, i	important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area		
Hydric Soil Present? Yes	No No		
Wetland Hydrology Present? Yes		Yes	. No
Remarks: Cowardin Code: PSS	HGM: Riverine Water Type:	DDIMIND	
	riow. Riverlile water Type.	UL MAMD	
Open			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soil C	
Surface Water (A1)	True Aquatic Plants (B14)		tated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patte	
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season W	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrov	
Drift Deposits (B3)	Thin Muck Surface (C7)		ble on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	✓ Geomorphic Po	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	
Water-Stained Leaves (B9)		Microtopograpl	
Aquatic Fauna (B13)		FAC-Neutral To	` '
Field Observations:		<u> </u>	
	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
		Hvdrology Present?	? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if ava	allable:	
Remarks:			

Sampling Point: W-ST12 P

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tice offatarii (Flot size)	% Cover			Number of Dominant Species	
1. Salix nigra	5		OBL	That Are OBL, FACW, or FAC:7	(A)
2		-		Total Number of Dominant	
3					(B)
4				Percent of Dominant Species	
5					(A/B)
6					,
7				Prevalence Index worksheet:	
	5	= Total Cov	ver	Total % Cover of: Multiply by:	
50% of total cover: <u>2.5</u>	20% of	total cover	: <u> </u>	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Salix nigra	35	~	OBL	FAC species x 3 =	
2. Acer negundo	5		FAC	FACU species x 4 =	
3		_	. <u> </u>	UPL species x 5 =	
4				Column Totals: (A)	
		_			. ,
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8		-		✓ 2 - Dominance Test is >50%	
9	4.0			3 - Prevalence Index is ≤3.0 ¹	
00		= Total Cov		4 - Morphological Adaptations ¹ (Provide supp	orting
50% of total cover: 20	20% of	total cover	:8	data in Remarks or on a separate sheet)	
TIEID Stratum (1 lot size)	45	,		Problematic Hydrophytic Vegetation ¹ (Explain) l
1. Verbesina alternifolia	15		F <u>AC</u>	resistant rydrophyno regenduen (Explain	.,
2. Euthamia graminifolia	10		F <u>AC</u>	¹ Indicators of hydric soil and wetland hydrology m	uet
3. Dichanthelium clandestium	15		FAC	be present, unless disturbed or problematic.	usi
4. Carex vulpinoidea	10		OBL	Definitions of Four Vegetation Strata:	
5. Scirpus atrovirens	15		OBL		
6. Polygonum sagittatum	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 c	
7. Asclepias incarnata	5		OBL	more in diameter at breast height (DBH), regardle height.	SS 01
8. Carex lurida	15	~	OBL		
g Solidago gigantea	10		FACW	Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28 f	less
10. Impatiens capensis	15	V	FACW	m) tall.	(1
11			. <u> </u>		
	115	= Total Cov		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	dless
50% of total cover: _ 57.5				of size, and woody plants less than 5.20 it tall.	
Woody Vine Stratum (Plot size: 15')	2070 01	total cover		Woody vine – All woody vines greater than 3.28 f	ft in
				height.	
1					
2		-			
3					
4		-		Hydrophytic	
5				Vegetation	
•		= Total Cov	^	Present? Yes No	
50% of total cover: 0	20% of	total cover	:0		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Color (moist)	PL SL Disturbed
4-15 7.5YR 4/1 90 7.5YR 4/6 10 C M/P ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. rdric Soil Indicators: Histosol (A1) Dark Surface (S7)	PL CL 2Location: PL=Pore Lining, M=Matrix.
rpe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: Histosol (A1) Dark Surface (S7)	² Location: PL=Pore Lining, M=Matrix.
dric Soil Indicators: Histosol (A1) Dark Surface (S7)	
Histosol (A1) Dark Surface (S7)	
Iric Soil Indicators: Histosol (A1) Dark Surface (S7)	
Iric Soil Indicators: Histosol (A1) Dark Surface (S7)	
ric Soil Indicators: Histosol (A1) Dark Surface (S7)	
Histosol (A1) Dark Surface (S7)	
Histosol (A1) Dark Surface (S7)	Indicators for Problematic Hydric Soils
	2 cm Muck (A10) (MLRA 147)
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 146)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	(MLRA 147, 148) Piedmont Floodplain Soils (F19)
Stratified Layers (A5) Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N	l ,
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127,	unless disturbed or problematic.
trictive Layer (if observed):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
marks:	

Wetland Photograph Page

Wetland ID $\underline{\text{W-ST12 PSS}}$ Date $\underline{\text{07/14/201}}\text{6}$



Photograph Direction NE

Comments:		

Project/Site: MVP	City/County: Harrisor	า	_ Sampling Date: 07/14/2016
Applicant/Owner: MVP		State: WV	Sampling Point: W-ST12 UP
	Section, Township, Rar		<u> </u>
Landform (hillslope, terrace, etc.): Hillslope			Slope (%): 10-15
Subregion (LRR or MLRA): LRR N			
Soil Map Unit Name: Gilpin-Upshur complex,			
Are climatic / hydrologic conditions on the site type			
Are Vegetation, Soil, or Hydrolog	y significantly disturbed? Are "l	Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally problematic? (If ne-	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sampling point lo	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes _	No Is the Sampled		
	No V		No
	No within a Wetlan	id? fes	NO
Remarks: Cowardin Code: UPLAND	_		
Cowardin Code. OF LAND	rigivi. Water i	i ype.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi	_
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots	s (C3) Moss Trim l	_ines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C	C6) Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)			c Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)			raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	ii Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	, I	Alond Undrology Droco	mt2 Voc No V
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches): we	tland Hydrology Prese	nt? Yes No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections), if available:	
Damarka			
Remarks:			
İ			

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

Sampling Point: W-ST12 UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot size)		Species?		Number of Dominant Species	4	
1. Carya ovata	30		FACU	That Are OBL, FACW, or FAC:	4	(A)
2. Fraxinus pennsylvanica	20		<u>FACW</u>	Total Number of Dominant		
3. Quercus rubra	20		FACU_	Species Across All Strata:	7	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	57	(A/B)
6						` ′
7				Prevalence Index worksheet:		
	70	= Total Cov	ver	Total % Cover of:	Multiply by:	
50% of total cover: 35	20% of	total cover	: <u>14</u>	OBL species x 1	ı =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1. Elaeagnus umbellata	60	✓	UPL	FAC species x 3	3 =	_
2				FACU species x 4	1 =	_
3				UPL species x 5	ō =	
				Column Totals: (A)		
4		-		、,		_ ` '
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indicat	ors:	
7				1 - Rapid Test for Hydrophyti	c Vegetation	
8				✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 ¹		
		= Total Cov		4 - Morphological Adaptation		porting
50% of total cover: 30	20% of	total cover	:12	data in Remarks or on a s		
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Veg		
1. Polygonum pensylvanicum	15		FACW_	Problematic Hydrophytic veg	jetation (Expla	···· <i>)</i>
2. Microstegium virminium	15		FAC	11. disease of booking and and one		
3. Thelypteris noveboracensis	10		FAC	¹ Indicators of hydric soil and wetla be present, unless disturbed or p		must
4				Definitions of Four Vegetation		
5				Definitions of Four Vegetation	Juata.	
6				Tree – Woody plants, excluding v		
7				more in diameter at breast height height.	(DBH), regard	less of
				neight.		
9.				Sapling/Shrub – Woody plants, e		
		-		than 3 in. DBH and greater than (m) tall.	or equal to 3.28	3 ft (1
10				my tan.		
11	40			Herb – All herbaceous (non-wood		ırdless
50% -((-)-)		= Total Cov		of size, and woody plants less that	an 3.28 π tall.	
50% of total cover: 20	20% 01	total cover	:	Woody vine - All woody vines gr	reater than 3.28	3 ft in
Woody Vine Stratum (Plot size:15')				height.		
1						
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	ver	Present? Yes	No	
50% of total cover:0	20% of	total cover	: 0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Depth	Matrix		needed to document the indicator or c Redox Features				
(inches)	Color (moist)	%	Color (moist) % Type ¹ L	oc ² Text		Remarks	
0-8	7.5YR 5/4	100		SI	<u>L</u>		
							
	·						
		etion, RM=R	educed Matrix, MS=Masked Sand Grains	. ² Locati	on: PL=Pore Lini		
lydric Soil I	Indicators:				Indicators for P	roblematic H	ydric Soils ³ :
Histosol			Dark Surface (S7)		2 cm Muck (, .	•
	pipedon (A2)		Polyvalue Below Surface (S8) (MLR		Coast Prairie)
Black Hi	, ,		Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Flo		s (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(TE 4.0)
	ick (A10) (LRR N) d Below Dark Surface	. (111)	Redox Dark Surface (F6)			Dark Surfac in in Remarks	
	ark Surface (A12)	# (ATT)	Depleted Dark Surface (F7)Redox Depressions (F8)		Other (Expla	III III Kemark	5)
	fucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (LRR	N			
	147, 148)	.1111 14,	MLRA 136)	. I V ,			
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	³ Indicators of h	vdronhytic ve	getation and
	tedox (S5)		Piedmont Floodplain Soils (F19) (ML		wetland hydro		
	Matrix (S6)		Red Parent Material (F21) (MLRA 12		unless disturb		
	_ayer (if observed):						
	efusal CF						
Depth (inc			_	Hydri	c Soil Present?	Yes	No 🗸
	51163). <u>-</u>			riyuri	C John Fresent:	163	_ 140
Remarks:							

Project/Site: MVP		City/Co	ounty: Harrison		Sampling Date: 07/14/2016
Applicant/Owner: MVP		State: W\			Sampling Point: W-ST12 PE
Investigator(s): J. McGuirk, D. Quinn		Sectio	n, Township, Range: N		
Landform (hillslope, terrace, etc.): Flood					Slope (%): 0-3
Subregion (LRR or MLRA): LRR N					Datum: NAD 83
Soil Map Unit Name: Gilpin-Upshur comp					
Are climatic / hydrologic conditions on the s					
Are Vegetation, Soil, or Hyd				l Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hyd	drology	naturally problema	tic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Atta	ch site map	showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area within a Wetland?	Vos V	No
Wetland Hydrology Present?	Yes	No	within a Wetland:	163	
Remarks: Cowardin Code: PEM	H	GM: Riverine	Water Type:	RPWWD	
Open	• • •			111 1111	
Ореп					
HYDROLOGY				0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Wetland Hydrology Indicators:		1 th at an ab .)			ators (minimum of two required)
Primary Indicators (minimum of one is req			24.4\	Surface Soil	
Surface Water (A1)		ue Aquatic Plants (E			getated Concave Surface (B8)
High Water Table (A2)		drogen Sulfide Odo	r (C1) s on Living Roots (C3)	✓ Drainage Pa Mose Trim I	
Saturation (A3) Water Marks (B1)		esence of Reduced		Moss Trim L	Water Table (C2)
Sediment Deposits (B2)			in Tilled Soils (C6)	Crayfish Bur	
Orift Deposits (B3)		in Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		her (Explain in Rem			tressed Plants (D1)
Iron Deposits (B5)		(=xp.a	u)	Geomorphic	
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	
Water-Stained Leaves (B9)	` ,				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present? Yes	_ No D	epth (inches):			
Water Table Present? Yes	_ No _ 🖊 D	epth (inches):			
	_ No D	epth (inches):	Wetland I	lydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, i	monitoring well	aerial photos, prev	ious inspections), if ava	nilable:	
	g	, ac.ia. piictos, p.c.			
Remarks:					

Sampling	Point: W-ST12 PEM
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Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 4	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 4	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:100	(A/B)
6					` ′
7				Prevalence Index worksheet:	
	0 _	= Total Co	ver	Total % Cover of: Multiply by:	
50% of total cover:0	20% of	total cover	: <u> </u>	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				✓ 2 - Dominance Test is >50%	
9	^			3 - Prevalence Index is ≤3.0 ¹	
500/ -fft-l		= Total Co	_	4 - Morphological Adaptations ¹ (Provide supp	oorting
50% of total cover: 0	20% of	total cover	:	data in Remarks or on a separate sheet)	
(1 lot size)	10		540	Problematic Hydrophytic Vegetation ¹ (Explain	ո)
1. Verbesina alternifolia	5		FAC		,
2. Euthamia graminifolia			FAC	¹ Indicators of hydric soil and wetland hydrology m	nust
3. Dichanthelium clandestium	10		FAC	be present, unless disturbed or problematic.	
4. Carex vulpinoidea	20		<u>OBL</u>	Definitions of Four Vegetation Strata:	
5. Scirpus atrovirens	15		OBL	Total Washington and dispute 0 is (7.0 a	
6. Polygonum sagittatum	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless	
7. Carex Iurida	15		OBL	height.	
_{8.} Solidago gigantea	10		FACW	Continu/Church Woody plants avaluating vines	loos
9. Impatiens capensis	15		FACW_	Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28	ft (1
10				m) tall.	
11.				Herb – All herbaceous (non-woody) plants, regard	dlocc
	105	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.	uless
50% of total cover:52.5					
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 height.	ft in
1				noight.	
2					
3					
4					
				Hydrophytic	
5		= Total Co		Vegetation Present? Yes ✓ No	
50% of total cover: 0		total cover	•		
Remarks: (Include photo numbers here or on a separate s		total cover	·		
Remarks. (include prioto numbers here of on a separate s	neet.)				

inches)	Matrix Color (moist)	%	Color (moist)	x Features % Typ	pe ¹ Loc ²	Texture		Remarks	
	7.5YR 4/2		7.5YR 4/6		M/PL	SL		Disturbe	
0-4		90		<u>10</u> <u>C</u>				Disturbe	e u
4-15	7.5YR 4/1	90	7.5YR 4/6	<u>10</u> C	<u>M/PL</u>	CL	ī		
							-		
pe: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	² Location: PL	_=Pore Linir	ng, M=Matrix.	
	ndicators:							oblematic Hy	dric Soils ³
Histosol ((A1)		Dark Surface				cm Muck (A	10) (MLRA 1	47)
	ipedon (A2)		·	low Surface (S		148) C		Redox (A16)	
Black His				rface (S9) (ML	RA 147, 148)		(MLRA 147		(= . a)
	n Sulfide (A4)		Loamy Gleye	, ,		Pi		odplain Soils	(F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Mar			V	(MLRA 136	Dark Surface	(TF12)
	Below Dark Surface	e (A11)		k Surface (F7)			•	n in Remarks)	, ,
	rk Surface (A12)	,	Redox Depre				` '	,	
	ucky Mineral (S1) (L	RR N,	-	ese Masses (F	12) (LRR N,				
	147, 148)		MLRA 13	•		3			
	leyed Matrix (S4)			ce (F13) (MLR				drophytic veg	
	edox (S5) Matrix (S6)			odplain Soils (I			-	ogy must be ped or problema	
	ayer (if observed):		Red Parent N	Material (F21) (I	VILKA 127, 147) uni	ess disturbe	ed of problema	auc.
	ayer (ii observed).								
						Hydric Soil	Present?	Yes 🗸	No
• • • • • • • • • • • • • • • • • • • •	has).					Tiyane con	i ieseiit:	103	
Depth (inc	hes):								
Type: Depth (inc marks:	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
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	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								
Depth (inc	hes):								

Wetland Photograph Page

Wetland ID $\underline{\text{W-ST12 PEM}}$ Date $\underline{\text{07/14/201}}$ 6



Photograph Direction NE

Comments:		

Project/Site: MVP	City/County: Harrison		Sampling Date: 07/14/2016			
Applicant/Owner: MVP						
	Section, Township, Range:		Sampling Point: W-ST12 UP			
Landform (hillslope, terrace, etc.): Hillslope			Slone (%): 10-15			
Subregion (LRR or MLRA): LRR N						
Soil Map Unit Name: Gilpin-Upshur complex, 15	_					
Are climatic / hydrologic conditions on the site typic						
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norm	al Circumstances" ¡	present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point locat	ions, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area					
	No V		No			
	No within a Wetland?	res	NO			
Remarks: Cowardin Code: UPLAND		·•				
Cowardin Code. OPLAND	rigivi. Water rype	·•				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; of	check 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)	Oxidized Rhizospheres on Living Roots (C3					
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Bur	rrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)			
Iron Deposits (B5)			Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu				
Water-Stained Leaves (B9)			aphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	Trest (D5)			
Field Observations: Surface Water Present? Yes No	Depth (inches):					
Water Table Present? Yes No	Depth (inches):					
		L Uvdueleev Duese	mt2 Van Na V			
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches) wetland	Hydrology Presei	nt? Yes No			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if a	vailable:				
Remarks:						
Remarks.						

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

Sampling Point: W-ST12 UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot size)		Species?		Number of Dominant Species	4	
1. Carya ovata	30		FACU	That Are OBL, FACW, or FAC: _	4	(A)
2. Fraxinus pennsylvanica	20		FACW_	Total Number of Dominant		
3. Quercus rubra	20		FACU_	Species Across All Strata:	7	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	57	(A/B)
6				_		` ,
7				Prevalence Index worksheet:		
	70	= Total Cov	er er		Multiply by:	
50% of total cover: 35	20% of	total cover	14	OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	=	_
1. Elaeagnus umbellata	60	~	UPL	FAC species x 3	=	_
2			· ——	FACU species x 4	=	_
			· -	UPL species x 5		
3				Column Totals: (A)		
4			· ——	(1)		_ (-)
5			· ——	Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicato	rs:	
7			·	1 - Rapid Test for Hydrophytic	Vegetation	
8				✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 ¹		
	60	= Total Cov	er er	4 - Morphological Adaptations	1 (Provide our	norting
50% of total cover: 30	20% of	total cover	12			porting
Herb Stratum (Plot size: 5')				data in Remarks or on a se		
1. Polygonum pensylvanicum	15		FACW_	Problematic Hydrophytic Vege	tation' (Expla	in)
2. Microstegium virminium	15	V	FAC			
3. Thelypteris noveboracensis	10	~	FAC	¹ Indicators of hydric soil and wetlar		must
4	-	-	· ——	be present, unless disturbed or pro		
_			· -	Definitions of Four Vegetation S	trata:	
				Tree – Woody plants, excluding vir	nes, 3 in. (7.6	cm) or
6			· ——	more in diameter at breast height (
7				height.		
8				Sapling/Shrub – Woody plants, ex	xcluding vines	, less
9			·	than 3 in. DBH and greater than or		
10			<u> </u>	m) tall.		
11				Herb – All herbaceous (non-wood)	v) plants, rega	rdless
	40	= Total Cov	er er	of size, and woody plants less than		
50% of total cover: 20	20% of	total cover	8	Woody vine – All woody vines gre	otor than 2 20) #4 in
Woody Vine Stratum (Plot size: 15')				height.	ater than 3.20) 11 111
1				- 3		
2						
3.						
4						
_				Hydrophytic		
5	0	Tatal Car		Vegetation Present? Yes	No	
50% of total cover: 0		= Total Cover	_			
		total cover				
Remarks: (Include photo numbers here or on a separate s	neet.)					

Depth	Matrix		needed to document the indicator o Redox Features				
(inches)	Color (moist)	%	Color (moist) % Type ¹		kture	Remarks	
0-8	7.5YR 5/4	100			SIL		
				-			
							
	·						
		etion, RM=R	educed Matrix, MS=Masked Sand Grai	ns. ² Loca	ation: PL=Pore Lin		
lydric Soil I	ndicators:				Indicators for P	roblematic Hyd	dric Soils ³ :
Histosol			Dark Surface (S7)			A10) (MLRA 1 4	17)
	pipedon (A2)		Polyvalue Below Surface (S8) (ML			e Redox (A16)	
Black Hi	, ,		Thin Dark Surface (S9) (MLRA 14	7, 148)	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			oodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(TE40)
	ick (A10) (LRR N) d Below Dark Surface	. (111)	Redox Dark Surface (F6)			v Dark Surface in in Remarks)	(TF12)
	ark Surface (A12)	(A11)	Depleted Dark Surface (F7)Redox Depressions (F8)		Other (Expla	in in Remarks)	
	lucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (L	R N			
	147, 148)	iixiix i v ,	MLRA 136)	XIX IV,			
	sleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136	122)	³ Indicators of h	ydrophytic vege	etation and
	edox (S5)		Piedmont Floodplain Soils (F19) (I			logy must be p	
	Matrix (S6)		Red Parent Material (F21) (MLRA			ed or problema	
	_ayer (if observed):						
	efusal CF						
Depth (inc			_	Hvd	ric Soil Present?	Yes	No 🗸
	Jiles). <u>-</u>		_	Пуц	iic 30ii Fieseiit!	162	110
Remarks:							

Project/Site: MVP		City/C	ounty: Harrison		Sampling Date: 05/30/2015			
Applicant/Owner: MVP			Sampling Point: W-F52					
Investigator(s): Ed Strohmaier, I	Dawn McCullou				_ ,			
Landform (hillslope, terrace, etc.): te					Slope (%): 0-1			
Subregion (LRR or MLRA): LRRN					Datum: NAD 83			
Soil Map Unit Name: Gilpin-Upshur comp								
Are climatic / hydrologic conditions o	n the site typical fo	or this time of year? Y	es <u>/</u> No (If no, explain in R	temarks.)			
Are Vegetation, Soil,	or Hydrology	significantly disturl	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil,								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Yes_	No						
Hydric Soil Present?		No	Is the Sampled Area	V	No			
Wetland Hydrology Present?	Yes 🗸	No	within a Wetland?	res	NO			
Remarks: Cowardin Code: PEM HGM:	Slope WT: N	RPWW						
Information listed on this form presence of wetland hydrolog was obstructed by timber ma	av. hvdrophytic	ne data collected in collected	n 2015. The wetland nydric soils was unal	l was revisited ble to be confi	on 09/18/2019. The rmed because the wetland			
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one	e is required: chec	k all that apply)		Surface Soil				
Surface Water (A1)	-	True Aquatic Plants (getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	= : :			
Saturation (A3)			es on Living Roots (C3)	- · · · · · · · · · · · · · · · · · · ·				
Water Marks (B1)		Presence of Reduced	= : : :		Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)			
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)			
Iron Deposits (B5)				Geomorphic	Position (D2)			
Inundation Visible on Aerial Im	agery (B7)			✓ Shallow Aqu	itard (D3)			
Water-Stained Leaves (B9)					aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
	s No							
Water Table Present? Yes	s No		12					
Saturation Present? Yes (includes capillary fringe)	s No	Depth (inches):	4 Wetland H	ydrology Preser	nt? Yes No			
Describe Recorded Data (stream g	auge, monitoring v	well, aerial photos, pre	vious inspections), if avai	ilable:				
Domorko								
Remarks:								

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

30'

Sapling/Shrub Stratum (Plot size: 15')

3. Microstigium vimineum

Tree Stratum (Plot size: __

2. Juncus tenuis

4. Trifolium repens

___)

4.______ ____ _____

50% of total cover: ___0

% Cover Species? Status

0 = Total Cover

0 = Total Cover

5

10

50% of total cover: <u>32.5</u> 20% of total cover: <u>13</u>

50% of total cover: 0 20% of total cover: 0

20% of total cover:_ 0

65 = Total Cover

0 = Total Cover

FACW FAC

✓ FAC

Hydrophytic Vegetation

Present?

___ FACU

50% of total cover: 0 20% of total cover: 0

	Sampling Poir	nt: <u>W-F52</u>	
	Dominance Test worksheet:		
î	Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
1	Total Number of Dominant Species Across All Strata:	3	(B)
1	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		
		S =	
-		=	
-	UPL species x 5	i =	
-	Column Totals: (A)		(B)
	Prevalence Index = B/A = _		_
-	Hydrophytic Vegetation Indicate	ors:	
-	1 - Rapid Test for Hydrophyti	c Vegetation	
-	✓ 2 - Dominance Test is >50%		
-	3 - Prevalence Index is ≤3.0 ¹		
	4 - Morphological Adaptations	s ¹ (Provide sup	porting
-	data in Remarks or on a s	eparate sheet)	
ı	Problematic Hydrophytic Veg	etation ¹ (Expla	in)
1	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	and hydrology i oblematic.	must
-	Definitions of Four Vegetation S	Strata:	
-	Tree – Woody plants, excluding v	ines. 3 in. (7 6	cm) or
-	more in diameter at breast height	(DBH), regard	less of
-	height.		
-	Sapling/Shrub – Woody plants, e		
-	than 3 in. DBH and greater than c m) tall.	or equal to 3.28	3 ft (1
-			
	Herb – All herbaceous (non-wood of size, and woody plants less that		rdless
-	Woody vine – All woody vines gr height.	eater than 3.28	3 ft in
-			
-			
_			

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: ____15' ____)

Yes V No ____

SOIL Sampling Point: W-F52

Profile Desc	cription: (Describe t	o the dept				or confirm	the ab	sence of indi	cators.)
Depth	Matrix			x Features	-	1 2	+		Damanlır
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type'	Loc ²	Text		Remarks
0-12	5YR 3/3	100					C	;	
							-		
							-		
Type: C=C	oncentration, D=Depl	etion. RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² l ocat	ion: PI =Pore	Lining, M=Matrix.
	Indicators:	ouon, run	rtoadood Watiix, Wi	<u>J-Macked</u>	Cana Ore		Local		r Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Mu	ck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.	148)		airie Redox (A16)
	stic (A3)		Thin Dark Su				,		A 147, 148)
	en Sulfide (A4)		Loamy Gleye			,,		•	t Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	•	. –,				A 136, 147)
	uck (A10) (LRR N)		Redox Dark		·6)			•	illow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dai	•	•				rplain in Remarks)
	ark Surface (A12)	(,	Redox Depre						,
	Mucky Mineral (S1) (L	RR N.	Iron-Mangan			_RR N.			
	A 147, 148)	,	MLRA 13		oo (<u>-</u> , (-				
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)		³ Indicators	of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				18)		drology must be present,
-	Matrix (S6)		Red Parent N						turbed or problematic.
	Layer (if observed):			(/ (, ,	,		
	ense clay								
	ches): 12						Livedo	ic Soil Preser	va Van V
Remarks:	cnes): <u>'</u>						пуаг	ic Soil Preser	nt? Yes V No No

Wetland ID W-F52 Cowardin Code PEM



Photograph Direction SSW

Date: 05/30/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 09/18/2019

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Cour	_{ity:} Harrison	Sampling Date: 05/30/2015				
Applicant/Owner: MVP		State: WV	Sampling Point: W-F52-UP				
Investigator(s): Ed Strohmaier, Dawn McCulle							
Landform (hillslope, terrace, etc.): hillside			Slope (%):				
Subregion (LRR or MLRA): LRRN La		Long: -80.551803					
Soil Map Unit Name: Gilpin-Upshur complex,		-					
Are climatic / hydrologic conditions on the site typical			<u></u>				
Are Vegetation, Soil, or Hydrology	-		s" present? Yes <u>√</u> No				
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site	- "	· -					
SOMMANT OF FINDINGS - Attach site	inap snowing sample	ing point locations, transet	5.5, important reatures, etc.				
	No/ Is	the Sampled Area					
	No ✓ wi		No <u> </u>				
	No						
Remarks: Upland							
Opialia							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)				
Primary Indicators (minimum of one is required; che	eck all that apply)		Soil Cracks (B6)				
	_ True Aquatic Plants (B14		Sparsely Vegetated Concave Surface (B8)				
		-	Drainage Patterns (B10)				
-	_ Oxidized Rhizospheres of						
Water Marks (B1)	_ Presence of Reduced Iro	_	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	_ Recent Iron Reduction in	Tilled Soils (C6) Crayfish I	Burrows (C8)				
Drift Deposits (B3)	_ Thin Muck Surface (C7)	Saturation	n Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_ Other (Explain in Remark	(s) Stunted o	r Stressed Plants (D1)				
Iron Deposits (B5)			hic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow A	Aquitard (D3)				
Water-Stained Leaves (B9)			ographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neu	tral Test (D5)				
Field Observations:	, 5 , 1 (1 , 1 , 1 , 1						
	Depth (inches):						
	Depth (inches):						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Pre	sent? Yes No✓				
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previou	ıs inspections), if available:					
Remarks:							
Plot is located on the downhill side of the	access road						
The is located on the downline side of the	400000 TOUG.						

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

EGETATION (Four Strata) – Use scientific na		•		Sampling Po	oint: <u>W-F52-U</u>	<u> </u>
				Dominance Test worksheet:		
ree Stratum (Plot size: 30) Ailanthus altissima	<u>% Cover</u>	Species?	<u>Status</u> FACU	Number of Dominant Species	1	(4)
'			. FACO	That Are OBL, FACW, or FAC:		_ (A)
				Total Number of Dominant	2	
3				Species Across All Strata:	3	_ (B)
ł				Percent of Dominant Species	220/	
				That Are OBL, FACW, or FAC:	33%	_ (A/B)
				Prevalence Index worksheet:		
	20			Total % Cover of:	Multiply by:	
50% of total cover:15	300/ of	= Total Cov	ver : 6	OBL species x		
	20% 01	total cover:		FACW species x		
Sapling/Shrub Stratum (Plot size: 15') Rubus allegheniensis	15	./	FACU	FAC species x		
		. <u> </u>	. F <u>ACU</u>	FACU species x		
)					(4 = (5 =	
3				.	·	
l				Column Totals: (A	4)	— (D)
5				Prevalence Index = B/A =	:	_
S				Hydrophytic Vegetation Indica		
7		- ——		1 - Rapid Test for Hydrophy		
3		- ——		2 - Dominance Test is >50%	-	
9				3 - Prevalence Index is ≤3.0	_	
7.5		= Total Cov		4 - Morphological Adaptation		nitroac
50% of total cover: 7.5	20% or	total cover:	: 3	data in Remarks or on a		
Terb Stratum (Flot Size)	90	,		Problematic Hydrophytic Ve	•	
1. Microstegium vimineum	80		FAC	_ , , , ,	79	,
2				¹ Indicators of hydric soil and wet	tland hvdrology	must
3		- ——		be present, unless disturbed or p	problematic.	Tite
4				Definitions of Four Vegetation	1 Strata:	
5				Tree – Woody plants, excluding	wines 2 in (7.6	, vw) U
5				more in diameter at breast heigh	onnes, م ۱۱۱۰ رم ht (DBH), regard	lless o
7				height.		
3				Sapling/Shrub – Woody plants,	excluding vines	s less
9				than 3 in. DBH and greater than		
10		<u> </u>		m) tall.		
11				Herb – All herbaceous (non-woo	ody) plants, rega	ardless
		= Total Cov	4.0	of size, and woody plants less th		-
50% of total cover: 40	20% of	f total cover:	: 16	Woody vine – All woody vines of	greater than 3.2	ጻ ft in
Woody Vine Stratum (Plot size:15')				height.		
l						
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	/er		_ No <u></u> ✓	
50% of total cover: 0		f total cover:	_			

Sampling Point: W-F52-UP

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the ir	ndicator o	or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redo	x Features	;						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>		Remar	ks	
0-16	5YR 3/3	_100					GrC				
								_			
								_			
¹ Type: C=Co	ncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	nins.	² Location:	PL=Pore Li	ning, M=Mat	rix.	
Hydric Soil I		·	·						Problematic		oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147.	148)		rie Redox (A		
Black His			Thin Dark Su				<i>,</i>		147, 148)	-,	
	n Sulfide (A4)		Loamy Gleye			,,			Floodplain So	oils (F19)	
	Layers (A5)		Depleted Mai		_,		_		136, 147)	()	
	ck (A10) (LRR N)		Redox Dark S		6)				ow Dark Surf	ace (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				_		lain in Rema		,
	rk Surface (A12)	(Redox Depre					() -		,	
	ucky Mineral (S1) (L	RR N.	Iron-Mangan			_RR N.					
	. 147, 148)	·······	MLRA 13		· · · - / (-						
	leyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)	³	ndicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo						rology must		
	Matrix (S6)		Red Parent N						rbed or prob		,
	ayer (if observed):		_		., (<u>, </u>				
Туре:	,										
	:hes):		_				Hydric S	oil Present?	? Yes	No_	1
			_				Tiyunc 3	on resent	103		
Remarks:											