Project/Site: MVP	City/County	_{/:} Webster	Sampling Date: 05/05/2015
Applicant/Owner: MVP			Sampling Point: W-H79
Investigator(s): A. Grech, S. Kelly, M. Whitten			
Landform (hillslope, terrace, etc.): Summit	Local relief (co	oncave, convex, none): Concav	/e Slope (%): 0-1
Subregion (LRR or MLRA): LRRN Lat	38.602048	Long: -80.508531	Datum: NAD 83
Soil Map Unit Name: Gilpin silt loam, 3 to 15 pe			
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes	No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstance	es" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any ar	nswers in Remarks.)
SUMMARY OF FINDINGS – Attach site n	nap showing samplin	ng point locations, transe	ects, important features, etc.
Hydrophytic Vegetation Present? Yes	No L. (I		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	- Is th	ne Sampled Area	v
Wetland Hydrology Present?	No with	nin a Wetland? Yes _	No
Remarks:			
Cowardin Code: PEM; HGM: slope; WT: N	RPWW		
Information listed on this form represents the	ne data collected in 20	15. The wetland was revis	ited on 11/10/2019. Presence
of wetland hydrology, hydrophytic vegetation	on, and hydric soils wa	s confirmed using the USA	ACE EMP Regional
Supplement delineation methodology.	,	J	5
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary II	ndicators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that annly)		Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1		e Patterns (B10)
	Oxidized Rhizospheres on	-	im Lines (B16)
	Presence of Reduced Iron		son Water Table (C2)
	Recent Iron Reduction in T		Burrows (C8)
	Thin Muck Surface (C7)		on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		or Stressed Plants (D1)
Iron Deposits (B5)			phic Position (D2)
Inundation Visible on Aerial Imagery (B7)			Aquitard (D3)
✓ Water-Stained Leaves (B9)			pographic Relief (D4)
Aquatic Fauna (B13)			utral Test (D5)
Field Observations:		<u> </u>	
_	Depth (inches): 2		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Pr	esent? Yes ✔ No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous	inspections), if available:	
Remarks:			

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

'EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: W-H79
201	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')		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)
4				(B)
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:
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				(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 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. Microstegium viminum	50		F <u>AC</u>	1 Toblematic Hydrophytic Vegetation (Explain)
2. Scirpus cyperinus	20		OBL	¹ Indicators of hydric coil and watland hydrology must
3. Juncus effusus	10		FACW_	¹ Indicators of hydric soil and wetland hydrology must 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 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
	80	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		total cover:		W 1 2 20 6
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
1				g.m.
2.				
3.				
4				
5				Hydrophytic Vegetation
-	^	= Total Cov	er	Present? Yes V No No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate sh				
riomano: (morado prioto namesto noto el en a coparato el	,			

SOIL Sampling Point: W-H79

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abse	ence of indicators.)
Depth	Matrix			x Features	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Textu</u>	
0-20	10YR 6/2	98	7.5YR 6/8	2	С	M/PL	SIC	
	-				-			
							-	
¹ Type: C=Ce	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:							ndicators for Problematic Hydric Soils ³ :
Histosol	(A1)		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)
	n Sulfide (A4)		Loamy Gleye	, ,	•			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 Surface	(A11)	Depleted Dar	k Surface	(F7)		_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre	essions (F	3)			
	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) ((LRR N,		
	\ 147, 148)		MLRA 13	-				
	lleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (ML R	RA 127, 147	7)	unless disturbed or problematic.
Restrictive I	ayer (if observed):							
Type:			<u> </u>					
Depth (in	ches):						Hydric	Soil Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H79



Photograph Direction NW

Date: 05/05/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 11/10/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: V	Vebster	_ Sampling Date: 05/05/2015				
Applicant/Owner: MVP			Sampling Point: W-H79-UP				
Investigator(s): A. Grech, S.Kelly, M. Whitter	n Section, Town		<u> </u>				
Landform (hillslope, terrace, etc.): Summit			Slope (%): 0-1				
Subregion (LRR or MLRA): LRRN							
Soil Map Unit Name: Gilpin silt loam, 3 to 15							
Are climatic / hydrologic conditions on the site typical	_						
Are Vegetation, Soil, or Hydrology _	·		· .				
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site							
		omit locations, transcot	o, important reatures, etc.				
	No V Is the S	Sampled Area					
	No within	a Wetland? Yes	No				
Wetland Hydrology Present? Yes Remarks:	NO						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)				
Primary Indicators (minimum of one is required; ch	neck all that annly)	·					
Surface Water (A1)	True Aquatic Plants (B14)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Liv	_					
Water Marks (B1)	Presence of Reduced Iron (C	-	Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tille						
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)			c Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aq					
Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopog FAC-Neutra	raphic Relief (D4)				
Field Observations:		FAC-Neutra	ar rest (D3)				
	Depth (inches):						
	Depth (inches):						
	Depth (inches):	Wetland Hydrology Prese	ent? Yes No 🗸				
(includes capillary fringe)		, ,,					
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous ins	pections), if available:					
Remarks:							

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

Sampling Point: W-H79-UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tice offatarii (Flot Size		Species?		Number of Dominant Species	
1. Acer rubrum	40		FAC	That Are OBL, FACW, or FAC: 2	(A)
2. Quercus montana	20		<u>UPL</u>	Total Number of Dominant	
3				Species Across All Strata: 5	(B)
4					` '
				Percent of Dominant Species That Are OBL FACW or FAC: 40	
5				That Are OBL, FACW, or FAC: 40	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply b	
		= Total Cov			
50% of total cover: 30	20% of	total cover:	12	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Liriodendron tulipifera	20	✓	FACU	FAC species x 3 =	
2. Acer rubrum	10		FAC	FACU species x 4 =	_
3. Rubus occidentalis	10		UPL	UPL species x 5 =	
				Column Totals: (A)	
4				Column rotals (A)	(B)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7					
8				1 - Rapid Test for Hydrophytic Vegetation	n
				2 - Dominance Test is >50%	
9	40			3 - Prevalence Index is ≤3.0 ¹	
		= 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 sh	
Herb Stratum (Plot size: 5')				· '	,
1				Problematic Hydrophytic Vegetation ¹ (E	xpiain)
2					
				¹ Indicators of hydric soil and wetland hydrole	
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree Woody plants evaluding vince 3 in	(7.6 om) or
6				Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), reg	
7				height.	jaraicos or
8					
				Sapling/Shrub – Woody plants, excluding v	
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
	0	= Total Cov	er	of size, and woody plants less than 3.28 ft to	
50% of total cover:0	20% of	total cover:	0	Mandy vine All woods vines greater than	2 20 ft in
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than height.	3.28 π In
1				noight.	
_					
2					
3					
4				Hydrophytic	
5				Vegetation	
	0 .	= Total Cov	er	Present? Yes No	
50% of total cover: 0		total cover:	_		
Remarks: (Include photo numbers here or on a separate s	neet.)				

Sampling Point: W-H79-UP

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the i	indicator	or confirm	the absence	of indicators	s.)	
Depth	Matrix		Redox	<u>Feature</u>	S					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-20	2.5Y 6/3	98	7.5YR 6/8	2	<u>C</u>	M	SIC			
								-		
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	=Masked	d Sand Gr	ains.	² Location: Pl	L=Pore Lining	g, M=Matrix.	
Hydric Soil I	ndicators:						Indica	ators for Prol	blematic Hyd	lric Soils³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A1	0) (MLRA 14	7)
Histic Ep	ipedon (A2)		Polyvalue Bel				148) C	oast Prairie R	Redox (A16)	
Black His			Thin Dark Sur			147, 148)		(MLRA 147,		
	n Sulfide (A4)		Loamy Gleye		(F2)		P	iedmont Floo		- 19)
	Layers (A5)		Depleted Mat		-0)			(MLRA 136,		(TE 4.0)
	ck (A10) (LRR N) I Below Dark Surface	(//11)	Redox Dark S Depleted Darl					ery Shallow D ther (Explain		(TF12)
	rk Surface (A12)	(A11)	Redox Depres				0	ullei (Explaili	iii Neiliaiks)	
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			LRR N.				
	147, 148)	,	MLRA 136		() (,				
	leyed Matrix (S4)		Umbric Surfac	-	(MLRA 13	6, 122)	³ Ind	icators of hyd	rophytic vege	tation and
Sandy R	edox (S5)		Piedmont Floo	odplain S	oils (F19)	(MLRA 14	l8) we	tland hydrolo	gy must be pr	esent,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	7) unl	less disturbed	d or problema	tic.
Restrictive L	.ayer (if observed):									
Туре:			<u> </u>							
Depth (inc	ches):		<u> </u>				Hydric Soil	Present?	Yes	No
Remarks:							•			

Project/Site: MVP	City/Co	ounty: Webster		Sampling Date: 05/05/2015			
Applicant/Owner: MVP				Sampling Point: W-H81			
Investigator(s): A. Grech, S. Kelly, M. Whitte	n Section	n, Township, Range: N/A	4				
Landform (hillslope, terrace, etc.): Summit	Local relie	ef (concave, convex, none	_{e):} Concave	Slope (%): 0-3			
Subregion (LRR or MLRA): LRRN L							
Soil Map Unit Name: Gilpin-Dekalb complex,							
Are climatic / hydrologic conditions on the site typica	al for this time of year? Ye	es <u> </u>	 f no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology _	significantly disturb	ed? Are "Normal (Circumstances" p	eresent? Yes No			
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site		•	•	,			
Lindraphytic Vegetation Present?	No						
	/ No	Is the Sampled Area	/				
Wetland Hydrology Present?	No_	within a Wetland?	Yes	No			
Remarks: Cowardin Code: PEM; HGM: depressional Information listed on this form represents of wetland hydrology, hydrophytic vegeta Supplement delineation methodology.	the data collected in	2015. The wetland was confirmed usin	was revisited ng the USACE	on 11/10/2019. Presence EMP Regional			
HYDROLOGY							
Wetland Hydrology Indicators:				tors (minimum of two required)			
Primary Indicators (minimum of one is required; ch			Surface Soil Cracks (B6)				
i i	True Aquatic Plants (B		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odo	• •	Drainage Patterns (B10)				
<u> </u>	Oxidized Rhizosphere	• , ,	Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1)	Presence of ReducedRecent Iron Reduction	` '	Dry-Season v Crayfish Burr				
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7	` '	_ ′	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rem			tressed Plants (D1)			
Iron Deposits (B5)	Other (Explain in Rem	<u>.</u>	Geomorphic				
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aqui	, ,			
Water-Stained Leaves (B9)		-		phic Relief (D4)			
Aquatic Fauna (B13)		- -	FAC-Neutral				
Field Observations:							
Surface Water Present? Yes No	Depth (inches):1	6					
Water Table Present? Yes No	Depth (inches):						
Saturation Present? Yes No	Depth (inches):		ydrology Presen	t? Yes 🗸 No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitorir	ng well, aerial photos, prev	ious inspections), if avail	able:				
Remarks:							
Large pool in road is feeding wetland hyd	Irology						
Large poor in road is recalling welland rive	лоюду						

VEGET

EGETATION (Four Strata) – Use scientific r	Absolute	Dominant Indicator	Sampling Point: W-H81 Dominance Test worksheet:
Free Stratum (Plot size: 30')		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/E
<u> </u>			
			Prevalence Index worksheet:
	0	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:0			OBL species x 1 =
apling/Shrub Stratum (Plot 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 =
<u>. </u>			Hydrophytic Vegetation Indicators:
<u> </u>			1 - Rapid Test for Hydrophytic Vegetation
i.			✓ 2 - Dominance Test is >50%
l			3 - Prevalence Index is ≤3.0 ¹
50% -(1-1-1		= Total Cover	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: <u>0</u> Herb Stratum (Plot size: 5')	20% of	total cover:	data in Remarks or on a separate sheet)
(i lot olzo:	30	1 ODI	Problematic Hydrophytic Vegetation ¹ (Explain)
Scirpus atrovirens		OBL	
Typha angustifolia	20	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must
. Carex lacustris	20	OBL	be present, unless disturbed or problematic.
l			Definitions of Four Vegetation Strata:
<u>. </u>			The Mandaglests and dispersion 0 is (7.0 cm)
i			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
- -			height.
<u>. </u>			Continue/Charak Was de alanta suchedia a sina a lacca
<u> </u>			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0			m) tall.
1.			Have All have account (non-woods) plants regardless
	70	= Total Cover	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: 14	
Voody Vine Stratum (Plot size: 15')			Woody vine – All woody vines greater than 3.28 ft in height.
			подп.
·			
·			
			Hydrophytic
	0		Vegetation Present? Yes ✓ No ✓ No ✓ No ✓ No ✓ No No
500/ - () - () - ()		= Total Cover	11030111: 163
50% of total cover:0		total cover: 0	
Remarks: (Include photo numbers here or on a separate	sheet.)		

SOIL Sampling Point: W-H81

Profile Desc	ription: (Describe t	o the dept	h needed to docum	ent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	<u>Feature</u>	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 5/2	98	10YR 5/6	_ 2	С	M/PL	SIC	
6-20	10YR 5/1	100					SIC	
				-				
			-					
					-			
					-			
¹ Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: P	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)
Histic Ep	pipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (N	ILRA 147,	148) C	coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S	,	,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar		. ,		0	other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	A 147, 148)		MLRA 136				•	
-	Gleyed Matrix (S4)		Umbric Surfac					icators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	') un	less disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H81



Photograph Direction NE

Date: 05/05/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 11/10/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: W	ebster	_ Sampling Date: 05/05/2015			
Applicant/Owner: MVP			Sampling Point: W-H81-UP			
Investigator(s): A. Grech, S.Kelly, M. Whitte	en Section, Townsh					
Landform (hillslope, terrace, etc.): Shoulder slo			Slope (%): 3			
Subregion (LRR or MLRA): LRRN						
Soil Map Unit Name: Gilpin-Dekalb complex		_				
Are climatic / hydrologic conditions on the site typi			·			
Are Vegetation, Soil, or Hydrology	•					
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit						
- Attach sin		This locations, transects	s, important reatures, etc.			
	No Is the Sa	mpled Area				
	No within a	Wetland? Yes	No <u> </u>			
Wetland Hydrology Present? Yes Remarks:	No					
HYDROLOGY		O a see done to the	atom (minimum at the manufact)			
Wetland Hydrology Indicators:		·	ators (minimum of two required)			
Primary Indicators (minimum of one is required; of Surface Water (A1)		Surface Soi				
Surface Water (A1) High Water Table (A2)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Livin	_				
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled					
Drift Deposits (B3)	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or S	Stressed Plants (D1)			
Iron Deposits (B5)		Geomorphic	Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu				
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	ni Test (D5)			
Field Observations: Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Wetland Hydrology Prese	nt? Yes No ✔			
(includes capillary fringe)		, ,	1103 103			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspe	ections), if available:				
Remarks:						

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

Sampling Point: W-H81-UP

Troo Stratum (Blot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	
1. Quercus rubra	20		<u>FACU</u>	That Are OBL, FACW, or FAC: 2	_ (A)
2. Quercus montana	20		<u>UPL</u>	Total Number of Dominant	
3. Acer rubrum	20		FAC	Species Across All Strata: 5	(B)
4				Dercent of Deminent Charles	
5			<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: 40	(A/B)
6					_ (,,,,)
7				Prevalence Index worksheet:	
	60	= Total Cov	er er	Total % Cover of: Multiply by:	
50% of total cover:30		total cover:		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Kalmia latifolia	20	~	FACU	FAC species x 3 =	
2. Acer rubrum	10	<u> </u>		FACU species x 4 =	
		-	FAC	UPL species x 5 =	
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%	
<u> </u>	00	= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
50% of total cover: 15				4 - Morphological Adaptations ¹ (Provide st	pporting
5 !	20 /6 01	iolai covei.		data in Remarks or on a separate shee	t)
TIEID STRATUITI (1 IOT SIZE)				Problematic Hydrophytic Vegetation ¹ (Exp	lain)
1					,
2				¹ Indicators of hydric soil and wetland hydrology	/ must
3				be present, unless disturbed or problematic.	illust
4				Definitions of Four Vegetation Strata:	
5			<u> </u>		
6				Tree – Woody plants, excluding vines, 3 in. (7.	
7				more in diameter at breast height (DBH), regain height.	dless of
				noight.	
8				Sapling/Shrub – Woody plants, excluding vine	
9				than 3 in. DBH and greater than or equal to 3.2	28 ft (1
10		-		m) tall.	
11				Herb - All herbaceous (non-woody) plants, reg	jardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 0	20% of	total cover:	. 0	Woody vine – All woody vines greater than 3.	28 ft in
Woody Vine Stratum (Plot size:15')				height.	20 11 111
1					
2					
3					
4					
5.				Hydrophytic Vegetation	
o	$\overline{}$	Tatal Car		Present? Yes No	
50% of total cover: 0		= Total Cov total cover:	_		
		total cover.			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Sampling Point: W-H81-UP

SOIL

Depth	ription: (Describe t Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remark	IS
0-20	10YR 5/6	99	7.5YR 6/8	1	<u>C</u>	<u>M</u>	CL			
								-		
										
								-		
								-		
								-		
Type: C=Co	oncentration, D=Depl	etion RM=F	Reduced Matrix MS	S=Masked	Sand G	rains	² Location: F	PI =Pore I in	ing M=Matr	ix
lydric Soil I		otion, rtivi–i	toddood Watnix, We	<u>J-Maskea</u>	ound o	uiiio.				Hydric Soils ³ :
Histosol			Dark Surface	(S7)					A10) (MLRA	
	pipedon (A2)		Polyvalue Be		e (S8) (I	MLRA 147.			e Redox (A1	
Black Hi			Thin Dark Su		. , .			(MLRA 14		-,
	n Sulfide (A4)		Loamy Gleye			. ,	F		oodplain So	ils (F19)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)				(MLRA 13	36, 147)	
	ick (A10) (LRR N)		Redox Dark S	•	•				v Dark Surfa	
	d Below Dark Surface	e (A11)	Depleted Dar		. ,		_ (Other (Expla	in in Remar	·ks)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12)	(LRR N,				
	147, 148)		MLRA 130	•	AL DA 4	00 400)	31	l:t		
	edox (S5)		Umbric Surfa Piedmont Flo						ology must b	regetation and
	Matrix (S6)		Red Parent N					-	ed or proble	
	_ayer (if observed):		Red r arent n	nateriai (i z	. 1) (IVILI	XA 121, 141	, ui	iless distuit	led of proble	anauc.
Type:	-ayer (ii observea).									
	phoo):						Hydric Soi	l Brosont?	Voc	No. V
	ches):						nyuric Soi	i Present?	Yes	No
emarks:										

Project/Site: MVP	City/County: Webster		Sampling Date: 05/05/2015
Applicant/Owner: MVP			Sampling Point: W-H82
Investigator(s): A. Grech, S. Kelly, M. Whitten	Section, Township, Range: N	/A	
Landform (hillslope, terrace, etc.): Summit			Slope (%): 0-1
Subregion (LRR or MLRA): LRRN Lat			
Soil Map Unit Name: Gilpin-Dekalb complex, 15			
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology		explain any answe	
SUMMARY OF FINDINGS – Attach site n			
Ukudasahudia Vanatatian Brassat2	No		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sampled Area	/	
Wetland Hydrology Present?	— No within a Wetland?	Yes	No
Remarks:			
Cowardin Code: PEM; HGM: Depressional Information listed on this form represents the of wetland hydrology, hydrophytic vegetation Supplement delineation methodology.	ne data collected in 2015. The wetland	d was revisited ng the USACE	on 11/10/2019. Presence EMP Regional
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	k 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 Odor (C1)	Drainage Pat	terns (B10)
	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season \	Water Table (C2)
<u> </u>	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burr	` ,
	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)
	Other (Explain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)		Geomorphic	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	phic Relief (D4)
Water-Stained Leaves (B9) Aquatic Fauna (B13)		FAC-Neutral	
Field Observations:		17.0 1404141	1001 (20)
	Depth (inches): 10		
	Depth (inches):		
		lydrology Presen	t? Yes ✔ No
(includes capillary fringe)		,	
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if ava	ilable:	
Remarks:			

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

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H82
201		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
				That Ale OBE, I ACW, OI I AC (A)
2 3.				Total Number of Dominant Species Across All Strata: 3 (B)
		-		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	0			Total % Cover of: Multiply by:
50% of total cover:0		= Total Cov	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20% 01	total cover		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 (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')	20			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	30		OBL	
2. Juncus effusus	20		F <u>ACW</u>	¹ Indicators of hydric soil and wetland hydrology must
3. Solidago rugosa			FACW_	be present, unless disturbed or problematic.
4. Microstegium viminum	5		F <u>AC</u>	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			. <u></u>	height.
8			. <u></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
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>37.5</u>	<u>)</u> 20% of	total cover	15	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
		= 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.)			

SOIL Sampling Point: W-H82

Profile Desc	ription: (Describe t	o the dept	h needed to docum	ent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 5/2	98	7.5YR 4/6	2	С	M/PL	C	
7-20	10YR 5/3	98	7.5YR 4/6	2	С	M/PL	С	
						· <u></u>		
					·			
							-	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.		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)
Histic Ep	oipedon (A2)		Polyvalue Bel	ow Surfa	ice (S8) (N	/ILRA 147,	148) C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Sur	face (S9) (MLRA 1	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat	. ,				(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S	,	,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Darl				0	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depres					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	A 147, 148)		MLRA 136		/MI DA 40)C 400\	31	instant of budges budges and
	Gleyed Matrix (S4) Redox (S5)		Umbric Surface Piedmont Floo					icators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent M					land hydrology must be present, less disturbed or problematic.
	Layer (if observed):		Red Falelit IV	ialeriai (i	Z1) (WILK	A 121, 141	, un	ess disturbed of problematic.
	Layer (ii observeu).							
Type:								
	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H82



Photograph Direction North

Date: 05/05/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 11/10/19

Project/Site: MVP	City/County: Webster Sampling Date: 05/05/2						
Applicant/Owner: MVP	State: WV Sampling Point: W-H82-						
	n Section, Township, Range: N/A						
• , -	orm (hillslope, terrace, etc.): Summit Local relief (concave, convex, none): None Slope						
· · · · · · · · · · · · · · · · · · ·	Lat: _38°35'54.62						
Soil Map Unit Name: Gilpin-Dekalb complex, 1							
Are climatic / hydrologic conditions on the site typical							
Are Vegetation, Soil, or Hydrology	-	_					
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site							
Attach site	, and showing sampling point location						
	No Is the Sampled Area						
	No within a Wetland?	Yes No					
Wetland Hydrology Present? Yes Remarks:	No						
Upland, mountain top hardwood forest.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil Cracks (B6)					
	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)					
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
	Oxidized Rhizospheres on Living Roots (C3)						
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)						
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9)					
Algar Wat of Grust (B4)	_ Other (Explain in Nemarks)	Stunted or Stressed Plants (D1) 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):						
Water Table Present? Yes No	Depth (inches):						
Saturation Present? Yes No	Depth (inches): Wetland	Hydrology Present? Yes No					
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections), if av	ailable:					
Remarks:							
Remarks.							

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

_)

% Cover Species? Status

= Total Cover

40 = Total Cover

0 = Total Cover

0 = Total Cover

20% of total cover:

FACU

UPL

20

20

20

50% of total cover: 30 20% of total cover: 12

50% of total cover: 20 20% of total cover: 8

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

Tree Stratum (Plot size:

2. Quercus montana

3. Liriodendron tulipifera

Liriodendron tulipifera

Herb Stratum (Plot size: ___

Sapling/Shrub Stratum (Plot size: 15')

1 Quercus rubra

Sampling Point: W-H82-UP Absolute Dominant Indicator Dominance Test worksheet: **Number of Dominant Species** 0____(A) That Are OBL, FACW, or FAC: **Total Number of Dominant** <u>FACU</u> _ (B) Species Across All Strata: Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: 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. **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. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes ____ No ___ Present?

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

50% of total cover: 0

10.____

Woody Vine Stratum (Plot size: 15'

Sampling Point: W-H82-UP

SOIL

Profile Description: (Describe to	the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)	
Depth Matrix		Redox	Features	3				
(inches) Color (moist)	%	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-14 10YR 5/4	98	7.5YR 4/6	2	<u>C</u>	M	C		
14-20 10YR 6/6	100					С		
		_						
							-	
¹ Type: C=Concentration, D=Deplet	ion. RM=R	educed Matrix. MS	=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil Indicators:		,,,					ators for Problematic Hydric Soils ³ :	
Histosol (A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2)		Polyvalue Bel		ce (S8) (N	ILRA 147,		coast Prairie Redox (A16)	
Black Histic (A3)		Thin Dark Sur				· —	(MLRA 147, 148)	
Hydrogen Sulfide (A4)		Loamy Gleyed	d Matrix (F2)		P	iedmont Floodplain Soils (F19)	
Stratified Layers (A5)		Depleted Mate	rix (F3)				(MLRA 136, 147)	
2 cm Muck (A10) (LRR N)		Redox Dark S	Surface (F	6)		V	ery Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11)	Depleted Dark				0	ther (Explain in Remarks)	
Thick Dark Surface (A12)		Redox Depres						
Sandy Mucky Mineral (S1) (LR	R N,	Iron-Mangane		es (F12) (LRR N,			
MLRA 147, 148)		MLRA 136	-			2		
Sandy Gleyed Matrix (S4)		Umbric Surfac					icators of hydrophytic vegetation and	
Sandy Redox (S5)		Piedmont Floo					tland hydrology must be present,	
Stripped Matrix (S6)		Red Parent M	aterial (F	21) (MLR	A 127, 147	r) uni	less disturbed or problematic.	
Restrictive Layer (if observed):								
Type:		_				1		
Depth (inches):		<u> </u>				Hydric Soil	Present? Yes No	
Remarks:								

Project/Site: MVP	City/County: Webster	r	Sampling Date: 05/05/2015			
Applicant/Owner: MVP	Sampling Point: W-H86					
Investigator(s): A. Grech, S. Kelly, M. Whitten	Section Township Ran	<u> </u>	_			
Landform (hillslope, terrace, etc.): Shoulder slope		-	Slone (%): 1-2			
Subregion (LRR or MLRA): LRRN Lat:			Datum: NAD 83			
Soil Map Unit Name: Gilpin silt loam, 3 to 15 per						
Are climatic / hydrologic conditions on the site typical fo						
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "l	Normal Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If ne	eded, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site m	ap showing sampling point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present?	No Is the Sampled					
Hydric Soil Present? Yes	N. Is the bampied					
Wetland Hydrology Present?	No within a Wetlan	id? Yes	No			
Remarks:						
Cowardin Code: PEM; HGM: Slope; WT: NF	RPWW					
Information listed on this form represents the	e data collected in 2015. The w	etland was revisited	on 11/10/2019. Presence			
of wetland hydrology, hydrophytic vegetation	n, and hydric soils was confirme	ed using the USACE	EMP Regional			
Supplement delineation methodology.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil				
	True Aquatic Plants (B14)		getated Concave Surface (B8)			
4	Hydrogen Sulfide Odor (C1)	Drainage Pa				
	Oxidized Rhizospheres on Living Roots					
	Presence of Reduced Iron (C4)		Water Table (C2)			
· ·	Recent Iron Reduction in Tilled Soils (C					
	Thin Muck Surface (C7)	· ·	isible on Aerial Imagery (C9)			
	Other (Explain in Remarks)		tressed Plants (D1)			
Iron Deposits (B5)		Geomorphic	Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu				
Water-Stained Leaves (B9)		Microtopogra	Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)			
Field Observations:						
Surface Water Present? Yes No						
Water Table Present? Yes No	Depth (inches): 0					
Saturation Present? Yes No		tland Hydrology Preser	nt? Yes <u>/</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vall parial photos province increations) if available.				
Describe Recorded Data (Stream gauge, monitoring w	eli, aeriai priotos, previous irispectioris,	,, ii avaliable.				
Remarks:						

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

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H86
201		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Openies Across Air cirata.
				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7	0	Tatal Car		Total % Cover of: Multiply by:
50% of total cover:0		= Total Cover	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20 /6 01	i total covel		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 rotals (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 Co	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	f total cover	:0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Scirpus atrovirens	30		OBL	Problematic Hydrophytic vegetation (Explain)
2. Viola cucullata	20		FACW_	The Processing Charles and Cha
3. Juncus effusus	15	<u> </u>	<u>FACW</u>	¹ Indicators of hydric soil and wetland hydrology must 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.
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.				
···-	65	= Total Co		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>32.5</u>				of olzo, and woody plante loop than 0.20 it tall.
Woody Vine Stratum (Plot size: 15')				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		100 100
		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			

SOIL Sampling Point: W-H86

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abs	sence of indicators.)
Depth	Matrix			x Features	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	
0-10	10YR 8/2	95	10YR 6/8	5	С	M/PL	С	
					-			
							-	
							-	
								·
¹ Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand G	ains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (I	MLRA 147,	148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				-	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Piedmont Floodplain Soils (F19)
Stratified	d 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)
	d Below Dark Surface	(A11)	Depleted Dar					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	-				2
	Gleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
-	tedox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLF	RA 127, 147	7)	unless disturbed or problematic.
	ayer (if observed):							
туре: <u>На</u>			_					
Depth (ind	ches): 10						Hydri	c Soil Present? Yes 🗸 No
Remarks:								

Wetland Photograph Page

Wetland ID W-H86



Photograph Direction NE

Date: 05/05/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/10/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	county: Webster		Sampling Date: 05/05/2015
Applicant/Owner: MVP		,			Sampling Point: W-H86-UP
Investigator(s): A. Grech, S	S.Kelly, M. Whitte	en Section	on, Township, Range: N/		_
Landform (hillslope, terrace, et					Slone (%): 0-3
Subregion (LRR or MLRA): L					
Soil Map Unit Name: Gilpin					
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	GS – Attach sit	e map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Pres	ent? Voc	No_ 🗸			
Hydric Soil Present?		No	Is the Sampled Area	v	🗸
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No
Remarks:					
Upland, mountain top lo	gged area.				
HYDROLOGY					
Wetland Hydrology Indicat	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is required; of	heck all that apply)	_	Surface Soil	Cracks (B6)
Surface Water (A1)	getated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa	tterns (B10)
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		tressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Ae	rial Imagery (R7)			Shallow Aqu	Position (D2)
Water-Stained Leaves (I					aphic Relief (D4)
Aquatic Fauna (B13)	30)			FAC-Neutral	
Field Observations:				_	
Surface Water Present?	Yes No	✓ Depth (inches):			
Water Table Present?	Yes No	Depth (inches):			
Saturation Present?		Depth (inches):		lvdrology Preser	nt? Yes No
(includes capillary fringe)				-	
Describe Recorded Data (str	eam gauge, monitor	ing well, aerial photos, pre	vious inspections), if ava	ılable:	
Remarks:					
. tomanto					

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

2. Magnolia acuminata

Sapling/Shrub Stratum (Plot size: 15')

50% of total cover: 30 20% of total cover: 12

50% of total cover: $30 \frac{}{20\%}$ of total cover: 12

50% of total cover: 15 20% of total cover: 6

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

Tree Stratum (Plot size: _

1. Rubus allegheniensis

Herb Stratum (Plot size: 5' 1. Dryopteris sp.

2 Prunus serotina

1. Betula lenta

ies of	plants.		Sampling		/V-H86-U	JP
solute			Dominance Test workshee	et:		
40	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FA		0	(A)
20		FACU_	Total Number of Dominant Species Across All Strata:		4*	_ (B)
			Percent of Dominant Specie That Are OBL, FACW, or FA		0	_ (A/E
			Prevalence Index workshe	et:		
60	= Total Cov		Total % Cover of:	Mu	ıltiply by:	
	total cover:		OBL species	x 1 =		
2070 01	total covor.		FACW species	x 2 =		
40	~	FACU	FAC species			
20	~	FACU	FACU species			
		IACU	·			
			Column Totals:			
				_ (' ' ' -		
			Prevalence Index = B	/A =		
			Hydrophytic Vegetation In	dicators		
			1 - Rapid Test for Hydro	ophytic Ve	egetation	
			2 - Dominance Test is >	>50%		
60			3 - Prevalence Index is	≤3.0 ¹		
	= Total Cov total cover:	40	4 - Morphological Adapt	tations¹ (F	Provide su	pporti
20 /6 01	total cover.		data in Remarks or o	on a sepa	rate sheet	:)
30		ND	Problematic Hydrophyti	c Vegetat	ion¹ (Expl	ain)
			¹ Indicators of hydric soil and be present, unless disturbed			must
		-	Definitions of Four Vegeta	tion Stra	ta:	
			Tree – Woody plants, excluded 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			ardles
20% 01	total cover:		Woody vine – All woody vinheight.	nes greate	er than 3.2	8 ft in
			Hydrophytic Vegetation Present? Yes	No.	. •	

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

Woody Vine Stratum (Plot size: 15')

ND- not determined

*Vegetation not ID'd down to species level not included in dominance test.

Sampling Point: W-H86-UP

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the	indicator	or confirr	n the absence	of indicators.))	
Depth	Matrix		Redox	K Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-7	10YR 5/4	98	7.5YR 4/6	2	<u>C</u>	M	SC			
7-16	10YR 6/6	100			. <u> </u>		C			
16-20	10YR 4/3	98	7.5YR 4/6	2	С	M	SC			
	-					<u> </u>		-		-
ı <u> </u>						<u> </u>				
1Type: C-C	oncentration, D=Depl	etion RM-	Reduced Matrix MS		d Sand Gr	ains	² Location: Pl	L=Pore Lining,	M-Matriy	
Hydric Soil		elion, Rivi=	Reduced Matrix, Mc	=ivia5KE	u Sanu Gi	ali is.			ematic Hydric	Soils ³ :
Histosol			Dark Surface	(\$7)				cm Muck (A10	_	
	pipedon (A2)		Polyvalue Be		ace (S8) (N	/ILRA 147		oast Prairie Re		
Black Hi			Thin Dark Su				, . , 0	(MLRA 147, 1		
	n Sulfide (A4)		Loamy Gleye			, ,	Р		olain Soils (F19)	
	d Layers (A5)		Depleted Mat		(- –)			(MLRA 136, 1		
	ick (A10) (LRR N)		Redox Dark S		F6)		V		rk Surface (TF1	2)
	d Below Dark Surface	e (A11)	Depleted Dar					ther (Explain ir	,	,
Thick Da	ark Surface (A12)		Redox Depre							
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Mass	es (F12) (LRR N,				
MLRA	A 147, 148)		MLRA 136	6)						
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	86, 122)	³ Indi	icators of hydro	phytic vegetation	on and
Sandy R	ledox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 1	48) we	tland hydrology	must be prese	nt,
Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) (MLR	A 127, 14	7) unl	ess disturbed of	or problematic.	
Restrictive I	_ayer (if observed):									
Type:										
Depth (inc	ches):		<u>—</u>				Hydric Soil	Present? Y	es No	
Remarks:										

Project/Site: MVP	City/County: Webs	City/County: Webster					
Applicant/Owner: MVP	- , , , ,		Sampling Point: W-H83				
Investigator(s): A. Grech, S. Kelly, M. Whitte							
Landform (hillslope, terrace, etc.): Summit		-	Slope (%): 0-1				
Subregion (LRR or MLRA): LRRN			Datum: NAD 83				
Soil Map Unit Name: Gilpin silt loam, 3 to 15		-					
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	o (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology _	significantly disturbed? A	re "Normal Circumstances" p	present? Yes No				
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site							
	No Is the Sample within a Wet		No				
Wetland Hydrology Present? Yes	No	lialiu: les					
Remarks:							
Cowardin Code: PEM; HGM: Slope; WT:			-				
Information listed on this form represents							
of wetland hydrology, hydrophytic vegeta	ation, and hydric soils was confir	med using the USACE	EMP Regional				
Supplement delineation methodology.							
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) Saturation (A3)	✓ Hydrogen Sulfide Odor (C1)✓ Oxidized Rhizospheres on Living Ro	Drainage Pa oots (C3) Moss Trim Li					
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soil						
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)				
Iron Deposits (B5)		Geomorphic	Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu					
Water-Stained Leaves (B9)			aphic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)				
Field Observations:	Denth (inches)· 16						
	Depth (inches): 16 Depth (inches): 0						
	•	Wetland Hydrology Preser	nt? Yes ✔ No				
(includes capillary fringe)	Depth (inches)	wetiand hydrology Preser	it? fes No				
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspection	ons), if available:					
Remarks:							

'EGETATION (Four Strata) – Use scientific n	ames of	piants.		Sampling Point: vv-no.	<u> </u>
_ 30'	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover			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					` ′
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 species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
			· ——	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	on
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 sh	
Herb Stratum (Plot size: 5')					-
1. Scirpus atrovirens	15		OBL	Problematic Hydrophytic Vegetation ¹ (Ex	xpiain)
2. Juncus effusus	15	✓	FACW_		
3. Carex gynandra	15	<u> </u>	OBL	¹ Indicators of hydric soil and wetland hydrolo	
4. Dicanthelium clandestinum	5		FAC	be present, unless disturbed or problematic.	
		· ·		Definitions of Four Vegetation Strata:	
			·	Tree – Woody plants, excluding vines, 3 in. ((7.6 cm) or
6				more in diameter at breast height (DBH), reg	ardless of
7				height.	
8		-		Sapling/Shrub - Woody plants, excluding vi	ines, 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, r	egardless
		= Total Cov		of size, and woody plants less than 3.28 ft ta	dl.
50% of total cover: <u>25</u>	20% of	total cover	: 10	Woody vine – All woody vines greater than	3 28 ft in
Woody Vine Stratum (Plot size: 15')				height.	0.20 11 111
1					
2		ī			
3					
4					
5.				Hydrophytic Vegetation	
<u> </u>	0	= Total Cov		Present? Yes V No No	
50% of total cover: 0		total cover	_		<u>—</u>
Remarks: (Include photo numbers here or on a separate s		10101 00101	·		
Remarks. (include prioto numbers here of on a separate s	neet.)				

SOIL Sampling Point: W-H83

Depth	cription: (Describe	to the depti		<u>k Feature</u>		or commi	i tile absence	of mulcators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 5/1	97	7.5YR 6/8	3	С	M/PL	SC	
18-20	10YR 5/2	100					SC	
10 20	10111 0/2							
·								
		·						
		· ——						
		·						
		·						
1- 0.0							21 5	
Type: C=Co	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	S=Masked	Sand G	rains.		L=Pore Lining, M=Matrix.
-			5 10 ((07)				ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(CO) (MI DA 447		cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Bel				140) (Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		•	147, 140)	D	riedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		172)			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S	, ,	- 6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	o (/ (Redox Depre				~	Aller (Explain in Remarks)
	Mucky Mineral (S1) (L	RR N.	Iron-Mangane			(LRR N.		
	A 147, 148)	,	MLRA 136		00 ()	(=::::,		
	Gleyed Matrix (S4)		Umbric Surfa	-	MLRA 1	36. 122)	³ Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):						<u>í</u>	<u> </u>
Type:	,							
Depth (inc	ches):						Hydric Soil	Present? Yes V No No
Remarks:							11,700.10 00.11	
Nemaiks.								

Wetland Photograph Page

Wetland ID W-H83



Photograph Direction NW

Date: 05/05/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 11/10/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/C	County: Webster		Sampling Date: 05/05/2015			
Applicant/Owner: MVP				Sampling Point: W-H83-UP			
Investigator(s): A. Grech, S.Kelly, M. Whitten Section, Township, Range: N/A							
Landform (hillslope, terrace, etc.): Shoulder s				Slope (%): 0-2			
Subregion (LRR or MLRA): LRRN							
Soil Map Unit Name: Gilpin silt loam, 3 to 1							
Are climatic / hydrologic conditions on the site ty		_					
Are Vegetation, Soil, or Hydrolog	· · · · · · · · · · · · · · · · · · ·						
Are Vegetation, Soil, or Hydrolog							
SUMMARY OF FINDINGS – Attach s			xplain any answe				
Somman of Tindings - Attach s	ince map snowing san		iis, transcots	, important reatures, etc.			
	No	Is the Sampled Area					
	No	within a Wetland?	Yes	No <u> </u>			
Wetland Hydrology Present? Yes _ Remarks:	No						
HYDROLOGY			Casandan Indias	tore (minimum of two required)			
Wetland Hydrology Indicators:	· chook all that apply)			tors (minimum of two required)			
Primary Indicators (minimum of one is required			Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B							
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)	d Iron (C4)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	on in Tilled Soils (C6)						
Drift Deposits (B3)	C7)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	marks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		<pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre>					
Aquatic Fauna (B13)		Г	FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes No	Depth (inches):						
	Depth (inches):						
Saturation Present? Yes No		ydrology Presen	t? Yes No ✔				
(includes capillary fringe)				11: 165 NO			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	evious inspections), if avai	ilable:				
Remarks:							

VEGETATION (Four Strata)

30'		Dominant		Dominance Test works	heet:		
ree Stratum (Plot size: 30') Liriodendron tulipifera	% Cover 70	Species?	Status FACU	Number of Dominant Sp That Are OBL, FACW, o		0	_ (A)
				Total Number of Domina Species Across All Strat		3	(B)
				Percent of Dominant Sp.			_ (-)
				That Are OBL, FACW, o		0	_ (A/B)
				Prevalence Index work	sheet:		
	70	= Total Cov		Total % Cover of:	Mu	ultiply by:	
50% of total cover: 35		total cover:		OBL species	x 1 =		
apling/Shrub Stratum (Plot size: 15')	20 /0 01	total cover.		FACW species			
Prunus serotina	30	~	FACU	FAC species			
Acer pensylvanicum	10			FACU species			
		· ———	F <u>ACU</u>	1	x 5 =		
				Column Totals:			
				Prevalence Index			
				Hydrophytic Vegetatio			
				1 - Rapid Test for H	ydrophytic V	egetation	
	-			2 - Dominance Test			
	40			3 - Prevalence Inde	x is ≤3.0 ¹		
50% of total cover: 20		= Total Cov		4 - Morphological A	daptations1 (Provide sı	upporting
<u></u>	20% 01	total cover		data in Remarks	or on a sepa	rate shee	et)
eib Stratum (i lot size.				Problematic Hydrop	hytic Vegeta	tion ¹ (Exp	lain)
					, ,	` .	,
·				¹ Indicators of hydric soil	and wetland	hydrology	v must
				be present, unless distu			,
				Definitions of Four Veg	etation Stra	nta:	
	-			Tree – Woody plants, ex more in diameter at brea			
				height.	ist neight (Di	οπ), regai	uless of
				Sapling/Shrub – Woody		udina vin	es less
				than 3 in. DBH and grea			
)				than 3 in. DBH and gream) tall.	ter than or e	qual to 3.2	28 ft (1
0				than 3 in. DBH and gream) tall. Herb – All herbaceous (ter than or e	qual to 3.2	28 ft (1 gardless
0	0	= Total Cov	ver	than 3 in. DBH and gream) tall.	ter than or e	qual to 3.2	28 ft (1 gardless
01	0	= Total Cov	ver	than 3 in. DBH and gream) tall. Herb – All herbaceous (ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover:0 /oody Vine Stratum (Plot size:15')	0 20% of	= Total Cov	rer 0	than 3 in. DBH and gream) tall. Herb – All herbaceous (of size, and woody plant	ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover:0 /oody Vine Stratum (Plot size:15')	0 20% of	= Total Cov	rer 0	than 3 in. DBH and gream) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody	ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover:0 /oody Vine Stratum (Plot size:15')	0 20% of	= Total Cov	rer 0	than 3 in. DBH and gream) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody	ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover:0 /oody Vine Stratum (Plot size:15')	0 20% of	= Total Covers	er 0	than 3 in. DBH and gream) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody	ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover: 0	0 20% of	= Total Cover:	er 0	than 3 in. DBH and gream) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody height.	ter than or ed non-woody) s less than 3	qual to 3.2 plants, reg 2.28 ft tall.	28 ft (1 gardless
50% of total cover: 0 /oody Vine Stratum (Plot size: 15')	0 20% of	= Total Cover:	er 0	than 3 in. DBH and great m) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody height. Hydrophytic Vegetation	ter than or ed non-woody) s less than 3 / vines great	plants, recolons that the colons is a colonial to the colonial	28 ft (1 gardless
50% of total cover: 0 /oody Vine Stratum (Plot size: 15')	0 20% of	= Total Cover:	0	than 3 in. DBH and great m) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody height. Hydrophytic Vegetation	ter than or ed non-woody) s less than 3	plants, recolons that the colons is a colonial to the colonial	28 ft (1 gardless
Voody Vine Stratum (Plot size: 15')	0 20% of	= Total Covers	0	than 3 in. DBH and great m) tall. Herb – All herbaceous (of size, and woody plant Woody vine – All woody height. Hydrophytic Vegetation	ter than or ed non-woody) s less than 3 / vines great	plants, recolons that the colons is a colonial to the colonial	28 ft (1 gardless

Sampling Point: W-H83-UP

Depth	Matrix	<u> </u>	Redox Features		5
nches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc ²		Remarks
0-10	10YR 4/4	100		SIL	
10-14	10YR 5/3	100		SICL	
14-20	10YR 5/6	100		С	
				<u> </u>	•
					• •
	-				
					
	-				
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.	Location: F	PL=Pore Lining, M=Matrix.
	Indicators:		Darl Orafa a (OZ)		eators for Problematic Hydric Soils ³ :
_ Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
Black Hi	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14Thin Dark Surface (S9) (MLRA 147, 148		Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)	<u> </u>	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark Surface (F6)	\	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
	lucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)		MLRA 136)	3.	
	Sleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		dicators of hydrophytic vegetation and
	ledox (S5) Matrix (S6)		Piedmont Floodplain Soils (F19) (MLRARed Parent Material (F21) (MLRA 127, 121)		etland hydrology must be present, nless disturbed or problematic.
	_ayer (if observed):		Red Faletit Material (F21) (MERA 121,	147) (1	liess disturbed of problematic.
Type:		•			
Depth (inc	ches).		_	Hydric Soi	I Present? Yes No
emarks:			_	11,411.000	<u> </u>
alliaiks.					

Project/Site: MVP	City/Cour	Sampling Date: 10/16/2015							
Applicant/Owner: MVP				Sampling Point: W-T4					
Investigator(s): J. Heule, L. McCarrell, J.Kovaks Section, Township, Range: N/A									
Landform (hillslope, terrace, etc.): Riverine	Local relief ((concave, convex, none): I	Vone	Slope (%): 10					
Subregion (LRR or MLRA): LRRN Lat:	38.587006	Long: -80.518		Datum: NAD 83					
Soil Map Unit Name: Pineville-Gilpin-Dekalb-Buc									
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	No (If no	, explain in Rer	marks.)					
Are Vegetation, Soil, or Hydrology	significantly disturbed	d? Are "Normal Circ	umstances" pre	esent? Yes V No No					
Are Vegetation, Soil, or Hydrology	naturally problematic	? (If needed, explai	n any answers	in Remarks.)					
SUMMARY OF FINDINGS – Attach site ma	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes	No I-								
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Yes	IS	the Sampled Area	/						
Wetland Hydrology Present?	No w	ithin a Wetland?	Yes	No					
Remarks:									
Cowardin Code: PEM; HGM: Riverine; WT:	NRPWW								
Information listed on this form represents the	data collected in 2	2015. The wetland wa	s revisited o	on 10/09/2019. Presence					
of wetland hydrology, hydrophytic vegetation									
Supplement delineation methodology.	,	J		5					
HYDROLOGY									
Wetland Hydrology Indicators:		Sec	ondary Indicato	ors (minimum of two required)					
	all that annly)	<u></u>							
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) V Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)									
	Hydrogen Sulfide Odor (Drainage Patte						
1 a									
✓ 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)									
	Other (Explain in Remark			essed Plants (D1)					
Iron Deposits (B5)			Geomorphic P						
Inundation Visible on Aerial Imagery (B7)			Shallow Aquita						
Water-Stained Leaves (B9)			Microtopograp						
Aquatic Fauna (B13) FAC-Neutral Test (D5)									
Field Observations:									
Surface Water Present? Yes No									
Water Table Present? Yes No									
Saturation Present? Yes No	Depth (inches): 2	Wetland Hydro	logy Present?	? Yes <u>/</u> No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we	all agrical photos, proviou	us inspections) if available	·						
Describe Recorded Data (stream gauge, monitoring we	iii, aeriai priotos, previot	us irispections), ii avaliable	·-						
Remarks:									

Sam	plina	Point:	W-T4

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		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				
5				Percent of Dominant Species That Are OBL FACW or FAC: 67
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
500/ (1.1.)		= 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')	40			
1. Liriodendron tulipifera	10		FACU_	FAC species x 3 =
2. Rubus allegheniensis	2		FACU_	FACU species x 4 =
3. Acer rubrum	2		FAC	UPL species x 5 =
4. Sambucus canadensis	8	V	FAC	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: 11	20% of	total cover:	4.4	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Parathelypteris noveboracensis	10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Solidago rugosa	85	~	FAC	
3. Panicum clandestinum			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				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.				Hade All back account (and words) along a second
	100	= 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: 50		total cover:		or ozer, and woody plante 1996 than 0.25 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	er	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
(menado proto namboro noto er en a coparato e	,			

SOIL Sampling Point: W-T4

Profile Desc	cription: (Describe t	o the dep	th needed to docur	nent the	indicator	or confirm	n the abs	sence of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	•
0-4	10YR 6/3	95	7.5YR 4/6	5	С	<u>M</u>	SC	<u> </u>
4-20	10YR 5/2	90	7.5YR 4/6	10	С	M	SC	
							<u>, </u>	
						. 		
				-				
					·			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	. ,				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(F2)			Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		F6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dai	•				Other (Explain in Remarks)
	ark Surface (A12)	(,	Redox Depre		. ,			
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	F21) (MLR	RA 127, 14	7)	unless disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (in	ches):						Hydri	c Soil Present? Yes No
Remarks:								



Photograph Direction NW

Date: 10/16/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 10/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/C	_{ounty:} Webster	Sampling Date: 06/17/2015
Applicant/Owner: MVP	,		// Sampling Point: UP-T4
	Section		
Landform (hillslope, terrace, etc.): Hillslope		ef (concave, convex, none): Conv	ex Slope (%): 15
Subregion (LRR or MLRA): LRRN			Datum: NAD83
Soil Map Unit Name: Gilpin-Dekalb comp		_	
Are climatic / hydrologic conditions on the site			
Are Vegetation, Soil, or Hydrol			
Are Vegetation, Soil, or Hydrol			
SUMMARY OF FINDINGS – Attach	site map snowing sam	pling point locations, trans	sects, important features, etc.
	s No	Is the Sampled Area	
	s No		No
Wetland Hydrology Present? Ye Remarks:	s No		
Upland			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surfac	ce Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (ely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odd		age Patterns (B10)
Saturation (A3)	Oxidized Rhizosphere	- · · · · ·	Trim Lines (B16)
Water Marks (B1)	Presence of Reduced	· · ·	eason Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		sh Burrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C Other (Explain in Ren		ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Neil		orphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		ow Aquitard (D3)
Water-Stained Leaves (B9)	,		copographic Relief (D4)
Aquatic Fauna (B13)		FAC-N	Neutral Test (D5)
Field Observations:			
	lo Depth (inches):		
	lo Depth (inches):		
Saturation Present? Yes N (includes capillary fringe)	lo Depth (inches):	Wetland Hydrology F	Present? Yes No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:			

	Sampling	Point:	UP-	Γ4
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Trop Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stiatum (Fiot Size)		Species?		Number of Dominant Species
1. Liriodendron tulipifera	20		<u>FACU</u>	That Are OBL, FACW, or FAC: 2 (A)
2. Prunus serotina	15		FACU	Total Number of Dominant
3. Populus grandidentata	5		FACU_	Species Across All Strata: 12 (B)
4. Quercus montana	15	~	UPL	、 /
5. Acer rubrum	20	~	FAC	Percent of Dominant Species That Are OBL FACW or FAC: 17 (A/B)
				That Are OBL, FACW, or FAC:(A/B)
6	·			Prevalence Index worksheet:
7	75	T-1-1-0		Total % Cover of: Multiply by:
50% of total cover: 37.		= Total Cov		OBL species x 1 =
451	<u>J</u> 20% 01	total cover.		FACW species x 2 =
Sapinig/Siliub Stratum (Flot Size)	10	~	LIDI	FAC species x 3 =
1. Quercus montana			<u>UPL</u>	
2. Liriodendron tulipifera	30		F <u>ACU</u>	FACU species x 4 =
3. Acer rubrum	10		FAC	UPL species x 5 =
4. Prunus serotina	10		FACU_	Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7	· - <u></u>			
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	00	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 30				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Lysimachia quadrifolia	10	/	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Parathelypteris noveboracensis	5		FAC	
3. Quercus montana	2		<u> </u>	¹ Indicators of hydric soil and wetland hydrology must
4. Acer rubrum			UPL	be present, unless disturbed or problematic.
	5		FAC	Definitions of Four Vegetation Strata:
5. Panicum clandestinum			FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Sassafras albidum	15		F <u>ACU</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
	45	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22.	5_ 20% of	total cover:	9	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Rubus allegheniensis	20	✓	FACU	noight.
2. Smilax rotundifolia	20	<u> </u>	FACU	
3				
4				
4		-		Hydrophytic
5	40			Vegetation Present? Yes No ✓
50% of total cover: 20		= Total Cov	_	100 <u> </u>
		total cover:		
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Sampling Point: UP-T4

Depth	Matrix		Redox Features	1 . 2	_	_	
inches)	Color (moist)	<u>%</u>	Color (moist) % Type	e ¹ Loc ²	Texture	Remark	ks
0-19	10YR 3/2	30					
	10YR 6/6	70					
	_						
	-	·			-		
		·					
			- ,				
		. <u></u> -					
	-	·			-		
	-	·					
		letion, RM=Re	educed Matrix, MS=Masked Sand	Grains.	² Location: PL	=Pore Lining, M=Mat	rix.
ydric Soil	Indicators:				Indica	tors for Problematic	Hydric Soils':
Histosol			Dark Surface (S7)			cm Muck (A10) (MLR	
	pipedon (A2)		Polyvalue Below Surface (S8			oast Prairie Redox (A	16)
	istic (A3)		Thin Dark Surface (S9) (MLR	A 147, 148)		(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)			edmont Floodplain Sc	oils (F19)
	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)	
	uck (A10) (LRR N)	(8.4.4)	Redox Dark Surface (F6)			ery Shallow Dark Surf	
	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Ot	her (Explain in Rema	rks)
	ark Surface (A12)	DD N	Redox Depressions (F8)	0) // DD N			
	Mucky Mineral (S1) (L	LKK N,	Iron-Manganese Masses (F12	2) (LRR N,			
	A 147, 148)		MLRA 136)	426 422)	3 lo dia	notore of budronbution	vogatation and
	Gleyed Matrix (S4) Redox (S5)		Umbric Surface (F13) (MLRA			cators of hydrophytic	-
	d Matrix (S6)		Piedmont Floodplain Soils (FRed Parent Material (F21) (M			land hydrology must bess disturbed or probl	
	Layer (if observed):		Red Farent Material (F21) (W	LKA 121, 141) unit	ess disturbed of probl	emanc.
	Layer (II observed).						
Type:			<u> </u>				
Depth (in	ches):		<u> </u>		Hydric Soil I	Present? Yes	No
emarks:							

Project/Site: MVP	City/County: We	oster	Sampling Date: 10/16/2015
Applicant/Owner: MVP			Sampling Point: W-H85
Investigator(s): A. Grech, S. Kelly, M. Whitten	Section, Township		
Landform (hillslope, terrace, etc.): Shoulder slope	Local relief (concave	convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRRN Lat			Datum: NAD 83
Soil Map Unit Name: Gilpin-Dekalb complex, 15		•	· · · · · · · · · · · · · · · · · · ·
Are climatic / hydrologic conditions on the site typical f	for this time of year? Yes	No (If no, explain in F	temarks.)
Are Vegetation, Soil, or Hydrology	•	Are "Normal Circumstances"	·
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site n	nap showing sampling po	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sam		
Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No within a W	etland? Yes	No
Remarks:			
Cowardin Code: PEM; HGM: Slope; WT: N	IRPWW		
Information listed on this form represents the		ne wetland was revisited	I on 10/10/2019. Presence
of wetland hydrology, hydrophytic vegetation			
Supplement delineation methodology.	on, and my and done was don	minica doing the CO/tOL	Elvii Regional
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; chec		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		
	Presence of Reduced Iron (C4)		Water Table (C2)
	Recent Iron Reduction in Tilled S		
	Thin Muck Surface (C7)		isible 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 Aqu	
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		<u>✓</u> FAC-Neutra	Test (D5)
Field Observations:			
	_ Depth (inches):		
	Depth (inches):		•
Saturation Present? Yes No	_ Depth (inches):	Wetland Hydrology Presei	nt? Yes <u>/</u> No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	I tions), if available:	
Remarks:			

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H85
30'	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% 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		-	·	Percent of Dominant Species
5		-	·	That Are OBL, FACW, or FAC:100 (A/B)
6			·	Prevalence Index worksheet:
7			·	Total % Cover of: Multiply by:
500/ / / / 0		= 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')				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				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	0	= Total Cov	er er	1
50% of total cover:0	20% of	total cover	0	4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size:5'				data in Remarks or on a separate sheet)
1. Solidago rugosa	20		F <u>AC</u>	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Packera aurea	20	V	F <u>ACW</u>	4
3. Scirpus atrovirens	15		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Juncus effusus	15		FACW	
5. Impatiens capensis	15		FACW	Definitions of Four Vegetation Strata:
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
40	-		·	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		THI CALL
11	85			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: _ 42.5		= Total Cov		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')	<u> </u>	lotal cover	·	Woody vine - All woody vines greater than 3.28 ft in
				height.
1		· <u></u>	· ——	
2		· ·		
3				
4			·	Hydrophytic
5				Vegetation Vac V
		= Total Cov	^	Present? Yes V No No
50% of total cover:0		total cover	. 0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

SOIL Sampling Point: W-H85

Profile Desc	ription: (Describe t	o the dept	h needed to docum	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-20	10YR 5/2	95	7.5YR 4/6	5	С	M/PL	SC	
			-		-	-		
					· -			
			-		. —			
								
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel				148) C	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		P	riedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ck (A10) (LRR N)	(*)	Redox Dark S	•	,			ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				c	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			I DD N		
	lucky Mineral (S1) (L	KK N,	Iron-Mangane		es (F12) (LKK N,		
	147, 148) sleyed Matrix (S4)		MLRA 136 Umbric Surfa	-	/MI D A 14	DE 122\	3Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	ayer (if observed):		Red r archit iv	iatoriai (i	21) (IIILI	121, 171) un	icas disturbed of problematic.
	-uyo. (oboo. rou).							
Type:	-h\-						Unadaia Cail	Dunnanta Van V
	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H85



Photograph Direction NW

Date: 10/16/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 10/10/19

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

Sapling/Shrub Stratum (Plot size: 15') 1 Rubus allegheniensis

Tree Stratum (Plot size: __ 1. Rhus typhina

2 Rhus typhina

Herb Stratum (Plot size: ___

4.______ ____ _____

1. Plantago lanceolata 30 V UPL

5._____

Total Number of Dominant Species Across All Strata: 4 (0	ır Strata) – Use scientific n	ames or	piants.		Sampi	ing Foint.	W-H85-	01
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (30'				Dominance Test works	sheet:		
Species Across All Strata: 4 (0) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (0) (Plot size: 15') sis 60	s:)						0	_ (A)
That Are OBL, FACW, or FAC: 50				·			4	_ (B)
Total Cover Sow of total cover: 25							0	_ (A/
Total Cover Sow of total cover: 25					Prevalence Index work	sheet:		
Sow of total cover: 25 20% of total cover: 10 OBL species x 1 =		50					ultiply by:	
(Plot size:15'	50% of total cover: 25							
FAC species	4.51	20% 01	iolai covei.					
FACU species x 4 =	-	60	/	FACII				
UPL species x 5 =			_ 					
Column Totals:				UPL				
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) 5 - Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation National Covers of the Mydrophytic Vegetation of the Hydrophytic Vegetation National Covers of the Hydrophytic Vegetation National C				• ——	•			
					Prevalence Index	= B/A =		
2 - Dominance Test is >50% TO _ = Total Cover 20% of total cover: 14 35				· -	Hydrophytic Vegetation	n Indicators):	
3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft height. Hydrophytic Vegetation Vegetation		-			1 - Rapid Test for H	ydrophytic V	egetation	
4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) 30					2 - Dominance Test	is >50%		
50% of total cover: 35 20% of total cover: 14 30 V UPL 1 Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft mi) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft with a size, and woody plants less than 3.28 ft tall. Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft than 3 in. DBH and greater than or equal to 3.28 ft than 3 in. DBH and greater than or equal to 3.28 ft tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody vines greater than 3.28 ft tall. Hydrophytic Vegetation		70			3 - Prevalence Inde	x is ≤3.0 ¹		
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Tree – Woody plants excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft height.					4 - Morphological Ad	daptations1 (Provide su	uppor
Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Vegetation Vegetation Vegetation		20% of	total cover:				arate shee	t)
1 Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree — Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub — Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb — All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine — All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Hydrophytic Vegetation	5 .				data in Remarks	or on a sepa		,,,
be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Hydrophytic Vegetation	.	30	~	LIDI				•
Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Hydrophytic Vegetation	;)	30	· /	<u>UPL</u>				•
Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Rydrophytic Vegetation	.	30		UPL	Problematic Hydrop 1 Indicators of hydric soil	hytic Vegeta	tion ¹ (Exp	lain)
more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Hydrophytic Vegetation	 	30	<i>V</i>	UPL	Problematic Hydrop ¹ Indicators of hydric soil be present, unless distur	hytic Vegeta and wetland	tion ¹ (Exp hydrology ematic.	lain)
than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Wegetation	 	30		<u>UPL</u>	Problematic Hydrop Indicators of hydric soil be present, unless distured Definitions of Four Veg	hytic Vegeta and wetland rbed or probl getation Stra	tion ¹ (Exp hydrology lematic. ata:	lain) / mus
30 = Total Cover 50% of total cover: 15 20% of total cover: 6 Plot size: 15' Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Vegetation	.	30		UPL	Problematic Hydrop Indicators of hydric soil be present, unless disture Definitions of Four Veg Tree – Woody plants, ex more in diameter at brea	hytic Vegeta and wetland rbed or proble getation Stra coluding vine	hydrology lematic. ata: s, 3 in. (7.	lain) / mus 6 cm)
Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Vegetation Vegetation	.	30		UPL	Problematic Hydrop Indicators of hydric soil be present, unless disture Definitions of Four Veg Tree – Woody plants, ex more in diameter at breatheight. Sapling/Shrub – Woody than 3 in. DBH and greatheight.	and wetland rbed or problem getation Strates coluding vine ast height (Di	hydrology lematic. ata: s, 3 in. (7. BH), regar	lain) / mus 6 cm) rdless
Vegetation	a	30		ver	Problematic Hydrop Indicators of hydric soil be present, unless distured by the present of the	and wetland rbed or problem of the color of	hydrology lematic. ata: s, 3 in. (7. BH), regar luding vine qual to 3.2	lain) / mus 6 cm) rdless es, les 28 ft (
Vegetation	50% of total cover:	30		ver	Problematic Hydrop Indicators of hydric soil be present, unless distured by the present of the present o	and wetland rbed or problem of the desired of the d	hydrology lematic. ata: s, 3 in. (7. BH), regar luding vine qual to 3.2 plants, reg	fain) mus factorial control f
O Present? Yes No V	50% of total cover:	30		ver	Problematic Hydrop Indicators of hydric soil be present, unless distured by the present, unless distured by the present of th	and wetland rbed or problem of the desired of the d	hydrology lematic. ata: s, 3 in. (7. BH), regar luding vine qual to 3.2 plants, reg	fain) factorial material from the factorial from t
50% of total cover: 0 20% of total cover: 0	50% of total cover:	30		ver	Problematic Hydrop Indicators of hydric soil be present, unless distured by the present, unless distured by the present of th	and wetland rbed or problem of petation Strate (Discourage) and the petation strate (Discourage) and the petation of the petat	hydrology lematic. ata: s, 3 in. (7. BH), regar luding vine qual to 3.2 plants, reg 3.28 ft tall. er than 3.2	fain) mus 6 cm) cdless es, les 28 ft (

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

Woody Vine Stratum (Plot size: 15')

Sampling Point: W-H85-UP

/! L - \	Matrix	0′	Redo	x Feature	es T	1 - 2	T		ъ.		
nches)	Color (moist) 10YR 5/4	<u>%</u>	Color (moist)	<u>%</u> 2	Type ¹	Loc ²	Texture SC		Remarl	KS	
0-7	-	98	7.5YR 4/6		<u>C</u>	<u>M</u>					
7-16	10YR 6/6	100					C				
16-20	10YR 4/3	98	7.5YR 4/6	2	C	M	SC				
		·		-	· -			-			
	_	. ———						-			
					· ——						
							-	-			
								-			
				'							
vpe: C=Cc	oncentration, D=Dep	letion RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: F	PI =Pore I ini	ng. M=Mat	rix.	
	ndicators:	1011011, 11111	rtoddod Matrix, Mi	<u>S-Macro</u>	a cana ci	anio.	Indic	ators for Pi	oblematic	Hydric Soi	ls³:
Histosol	(A1)		Dark Surface	e (S7)				cm Muck (
	pipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) (I	/ILRA 147		Coast Prairie			
_ Black His			Thin Dark Sເ			147, 148)		(MLRA 14			
	n Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	Piedmont Flo		oils (F19)	
	Layers (A5)		Depleted Ma		Fc\		,	(MLRA 13		(TE40)	
	ck (A10) (LRR N) I Below Dark Surfac	e (Δ11)	Redox Dark Depleted Da		,			/ery Shallov Other (Expla			
	rk Surface (A12)	C (ATT)	Redox Depre		. ,		_ `	otrici (Expla	iii iii itteilia	11(3)	
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan			LRR N,					
	147, 148)		MLRA 13								
	leyed Matrix (S4)		Umbric Surfa							vegetation a	nd
	edox (S5)		Piedmont Flo					etland hydro			
	Matrix (S6)		Red Parent N	Material (F	F21) (ML R	A 127, 14	7) ur	less disturb	ed or probl	ematic.	
4-1-41 1	/:f - \.										
	.ayer (if observed):	i									
Туре:									.,		√
Type:			<u> </u>				Hydric Soi	I Present?	Yes	No	<u> </u>
Type: Depth (inc							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>~</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	
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> </u>
Type:							Hydric Soi	I Present?	Yes	No	<u> </u>
Type:							Hydric Soi	I Present?	Yes	No	
Type:							Hydric Soi	I Present?	Yes	No	
Type: Depth (inc							Hydric Soi	I Present?	Yes	No	
Туре:							Hydric Soi	I Present?	Yes	No	
Type: Depth (inc							Hydric Soi	I Present?	Yes	No	_
Type: Depth (inc							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>~</u>
Type:							Hydric Soi	I Present?	Yes	No	<u>~</u>

Project/Site: MVP	City/County: Webster	Sampling Date: 05/04/2015
Applicant/Owner: MVP		Sampling Point: W-A20 PFO
	Section, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Hilltop		Slope (%): 2
Subregion (LRR or MLRA): LRRN Lat: 38.5669		
Soil Map Unit Name: Pineville-Gilpin-Guyandotte association		
Are climatic / hydrologic conditions on the site typical for this time		
		_
Are Vegetation, Soil, or Hydrology signification		
Are Vegetation, Soil, or Hydrology naturall	y problematic? (If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ring sampling point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No No No	is the Sampled Area	No
Remarks:		
Information listed on this form represents the data co		
presence of wetland hydrology, hydrophytic vegetati	-	
restoration activities within the LOD. The wetland wa	, -	•
construction in 2018. Vegetation listed on this form r	epresents the vegetative community pres	ent in the wettand phor to
HYDROLOGY Wetland Hydrology Indicators:		cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap Surface Water (A1)	ches):	il Cracks (B6) egetated Concave Surface (B8) atterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)
Remarks: Cowardin Code: PFO; HGM: Depressional; WT: NRI PFO adjacent to PEM wetland. Majority of tree layer	PWW	rvey.

Troo Stratum (Plot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot Size.		Species?		Number of Dominant Species _
1. Liriodendron tulipifera	17		<u>FACU</u>	That Are OBL, FACW, or FAC:5 (A)
2. Nyssa sylvatica	9		FAC	Total Number of Dominant
3. Quercus rubra	5		FACU	Species Across All Strata: 8 (B)
4. Quercus muehlenbergii	5		UPL	
5. Acer rubrum	7	-	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 62 (A/B)
6				That Are OBL, FACW, or FAC: 62 (A/B)
7				Prevalence Index worksheet:
1	43	T-1-1-0		Total % Cover of: Multiply by:
50% of total cover: _ 21.5		= Total Co		OBL species x 1 =
4.51	<u>J</u> 20% 01	total cover		FACW species x 2 =
Japinig/Siliub Stratum (1 lot size)	8		E40	FAC species x 3 =
1. Nyssa sylvatica			FAC	
2. Liriodendron tulipifera	6		FACU_	FACU species x 4 =
3. Acer rubrum	5		FAC	UPL species x 5 =
4. Quercus rubra	2		FACU_	Column Totals: (A) (B)
5. Quercus muehlenbergii	4		UPL	Prevalence Index = B/A =
6. Vaccinium corymbosum	3		FACW	Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				✓ 2 - Dominance Test is >50%
		= Total Co	ver	3 - Prevalence Index is ≤3.0¹
50% of total cover:14				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Osamunda cinnamonea	5	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Scirpus atrovirens	4		OBL	
3. Carex stipata	2		OBL	¹ Indicators of hydric soil and wetland hydrology must
		-	ODL	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
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Co		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5.5	20% of	total cover	: 2.2	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Smilax rotundifolia	4		<u>FACU</u>	
2. Smilax araculata	5	✓	FAC	
3.				
4.				
5.				Hydrophytic Vegetation
<u>. </u>	9	= Total Co	uor.	Present? Yes V No No
50% of total cover: 4.5		total cover		
Remarks: (Include photo numbers here or on a separate s		10101 00701		
Remarks. (include prioto numbers here of off a separate s	neet.)			

Sampling Point: W-A20 PFO

SOIL

Depth	Matrix	%		x Features	Tuna	Loc²	Toytura		Domorto	
(inches)	Color (moist) 10YR 5/2		Color (moist)	_ <u>%</u> _ 15	Type ¹		Texture SC		Remarks	
0-8		85	2.5YR 3/6		<u>C</u>	<u>PL</u>				
8-20	10YR 6/3	60	7.5YR 4/6	40	<u>C</u>	<u>PL</u>	SC	Oxi	dized rhizos	spheres
Type: C=C	oncentration, D=Dep	 letion, RM=	Reduced Matrix, M	 S=Masked \$	Sand G	rains.	² Location: PL	 _=Pore Lini	ng, M=Matrix.	
	Indicators:								oblematic Hy	dric Soils ³
Black Hi	pipedon (A2) istic (A3) en Sulfide (A4)		Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye	elow Surface urface (S9) (ed Matrix (F	(MLRA		148) C	oast Prairie (MLRA 14 edmont Flo	odplain Soils	·
_ 2 cm Mu	d Layers (A5) uck (A10) (LRR N) d Below Dark Surface	a (Δ11)	Depleted Ma Redox Dark Depleted Da	Surface (F6					6, 147) Dark Surface in in Remarks)	
	ark Surface (A12)	5 (ATT)	Redox Depre					шег (схріа	iii iii Neiliaiks)	1
	/lucky Mineral (S1) (L	.RR N,	Iron-Mangan			(LRR N,				
	A 147, 148)	,	MLRA 13		- (,				
	Bleyed Matrix (S4)		Umbric Surfa	ace (F13) (N	ILRA 1	36, 122)	³ Indi	cators of h	ydrophytic veg	etation and
	Redox (S5)		Piedmont Flo	odplain So	ils (F19) (MLRA 14	8) we	tland hydro	logy must be p	oresent,
	l Matrix (S6)		Red Parent N	Material (F2	1) (ML F	RA 127, 147	') unl	ess disturb	ed or problema	atic.
estrictive	Layer (if observed):									
Type:	-1>						Headala Call	D	v	NI -
Depth (in	cnes):						Hydric Soil	Present?	Yes	No
emarks:										

Wetland Photograph Page

Wetland ID W-A20 PFO



Photograph Direction East

Date: 05/04/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 10/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/C	ounty: Webster		Sampling Date: 05/04/2015		
Applicant/Owner: MVP						Sampling Point: W-A20-PE		
Investigator(s): Cook, Heule	e, Lew		Section	on, Township, Range: N	/A			
Landform (hillslope, terrace, et						Slope (%): 2		
Subregion (LRR or MLRA): L						Datum: NAD 83		
Soil Map Unit Name: Gilpin-l				_				
Are climatic / hydrologic condit				4				
· · · · · · · · · · · · · · · · · · ·			-					
		• •	_ • •		l Circumstances" p	resent? Yes No		
Are Vegetation, Soil					explain any answe			
SUMMARY OF FINDIN	GS – Atta	ch site ma	p showing sam	pling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Pres	ent?	Yes 🗸	No	In the Commissi Asse				
Hydric Soil Present?		Yes 🗸	No	Is the Sampled Area within a Wetland?	Yes 🗸	No		
Wetland Hydrology Present?		Yes	No	within a Wetland:	103			
Remarks:			•					
Information listed on this	•							
wetland is located outside				•				
· ·			•	•		ds; however, the presence		
of wetland hydrology & I	nydrophyti	c vegetatio	n was confirmed	d visually from within	the construct	ion LOD.		
HYDROLOGY								
Wetland Hydrology Indicate	ors:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum	of one is req	uired; check	all that apply)		Surface Soil			
Surface Water (A1)		T	rue Aquatic Plants (l	B14)	✓ Sparsely Veg	getated Concave Surface (B8)		
High Water Table (A2)			lydrogen Sulfide Odd		✓ Drainage Par	tterns (B10)		
Saturation (A3)				es on Living Roots (C3)	Moss Trim Li			
Water Marks (B1)			resence of Reduced	` '		Water Table (C2)		
Sediment Deposits (B2)				n in Tilled Soils (C6)	Crayfish Buri			
Drift Deposits (B3)			hin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		_ c	Other (Explain in Ren	narks)		tressed Plants (D1)		
Iron Deposits (B5)		(D=)			Geomorphic			
Inundation Visible on Ae		(B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (E	39)				Microtopographic Relief (D4)FAC-Neutral Test (D5)			
Aquatic Fauna (B13)				T	FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present?	Voc V	No	Depth (inches):	0				
Water Table Present?				0				
Saturation Present?				0 Wetland I	lydrology Presen	t? Yes ✔ No		
(includes capillary fringe)						11: 165 <u> </u>		
Describe Recorded Data (stre	eam gauge, r	monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:								
Cowardin Code: PEM; H	IGM: Depr	ressional; \	NT: NRPWW					
Small complex from roa	d, transitio	n from pen	n to pfo					
'	,	•	•					

Sampling P	oint.	W-	A20-	PEM
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,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				(,
				Total Number of Dominant Species Across All Strata: 3 (B)
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 Cov		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover	:0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
2		= 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. Juncus effusus	5		FACW_	Froblematic Hydrophytic vegetation (Explain)
2. Viola sorroria	3		F <u>AC</u>	The directions of boundings of the original conditions and boundings of the original conditions and the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition of the original conditions are directly as a first original condition or directly as a first original condition or directly and the original conditions are directly as a first original condition or directly as a first original condition or directly as a first original condition or directly are directly as a first original condition or directly and the original condition or directly as a first original condition or direc
3. Lamium amplexicaule	2		ND	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Packera aurea	1		FACW	Definitions of Four Vegetation Strata:
5. Scirpus atrovirens	3	V	OBL	Definitions of Four Vegetation Strata.
6. Rubus allegheniensis	2		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
···			17100	more in diameter at breast height (DBH), regardless of height.
7				neight.
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
2		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 8	20% of	total cover	3.2	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Hudnouhudio
5.				Hydrophytic Vegetation
	^	= Total Cov	/er	Present? Yes V No No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
ND - Not determined	,			
The determined				
Most of this pem is bare ground covered by wat	ar stains	d leaves		
wiost of this pent is pare ground covered by wat	ei siaili e	u icaves		

Sampling Point: W-A20-PEM

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	k Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8	5Y 5/3	98	10YR 6/8	2	С	PL	C	Oxidized rhizospheres
8-20	2.5Y 6/1	50	5Y 5/3	40	С	M	SC	Dual matrix
			10YR 6/8	10	С	PL	SC	Concentrations
							•	
							·	
						_		
1 _{Tympo} , C. C.	anneantration D. Donl		Paduaad Matrix MC	· Mookoo			² L continue DI	Doro Lining M. Motrix
Hydric Soil	oncentration, D=Depl	etion, Rivi=F	reduced Matrix, MS	=IVIasked	Sand Gr	ains.		=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel	. ,	ce (S8) (I	/II RΔ 147		past Prairie Redox (A16)
Black Hi			Thin Dark Su		. , .			(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			141, 140)		edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		/			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		- 6)			ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			her (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre					,
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,		
	A 147, 148)		MLRA 136					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) ((MLRA 1	36, 122)	³ Indi	cators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wet	land hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) (MLR	A 127, 147	') unle	ess disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:			<u> </u>					
Depth (in	ches):		<u> </u>				Hydric Soil	Present? Yes 🟏 No
Remarks:								

Wetland Photograph Page

Wetland ID W-A20-PEM



Photograph Direction West

Date: 05/04/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 10/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County	Webster	Sampling Date: 05/04/2015			
Applicant/Owner: MVP			Sampling Point: W-A20-up1			
Investigator(s): Cook, Heule, Lew Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.): Road/hilltop		ncave, convex, none): None	Slope (%): 2			
Subregion (LRR or MLRA): LRRN		Long: 80°31'48.19"				
Soil Map Unit Name: Gilpin-Dekalb complex		=				
Are climatic / hydrologic conditions on the site typ			•			
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach si						
	4	g point locations, transco.	io, important routaros, otor			
	No Is th	e Sampled Area				
	No with	in a Wetland? Yes	No			
Wetland Hydrology Present? Yes _ Remarks:	NO					
Nemarks.						
Upland						
·						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Sc	oil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1) Drainage F	Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on	Living Roots (C3) Moss Trim	Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron	· ·	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in T		urrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)			
Iron Deposits (B5)			ic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Ac				
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutr	ai rest (D5)			
Field Observations: Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
	Depth (inches):		ent? Yes No 🗸			
(includes capillary fringe)		, ,				
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous	inspections), if available:				
Remarks:						
None						

Sampling	Point:	W-A20-up	շ1
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Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot size)		Species?		Number of Dominant Species
1. Quercus rubra			<u>FACU</u>	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	20		FAC	Total Number of Deminerat
3. Quercus muehlenbergii	5		UPL	Total Number of Dominant Species Across All Strata:6 (B)
4 Nyssa sylvatica	6		FAC	Openies / toross / tir etrata.
" <u> </u>			1710	Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 40 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 19	20% of	total cover	7.6	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Quercus rubra	7	~	FACU	FAC species x 3 =
2. Quercus muehlenbergii	9		UPL	FACU species x 4 =
3. Acer rubrum	3			UPL species x 5 =
			FAC	
4. Nyssa sylvatica			F <u>AC</u>	Column Totals: (A) (B)
{5.} Festuca rubra	3		FACU	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: 14	20% of	total cover	5.6	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Festuca rubra	3	~	FACU	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				Johnson Coll Vogetation Chata
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				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.				Houte All books assure (non-unach) mlanta manadiana
	3	= Total Cov	· · ·	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 1.5		total cover		of size, and woody plants less than 3.20 it tall.
4 = 1	20% 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
violuy vine Stratum (Flot Size)	4-			height.
1. Smilax auriculata	15		<u>FACU</u>	
2				
3				
4				Hydrophytic
5			·	Vegetation
		= Total Cov	_	Present? Yes No
50% of total cover: 7.5	20% of	total cover	3	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-A20-up1

General Color (moist) % Color (moist) % Type Loc Teature Remarks	Depth	Matrix			Features	12	T		D	_	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Ratains. Type: C=Concentration, RM=Ratains. Type: C=Concentration, RM=Ratains. Type: C=Concentration, RM=Ratain		•		Color (moist)	<u>% Type</u>	LOC			Remark	(S	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hyc 2 cm Muck (A10) (MLRA 14 4, 148) 2 com Surface (S8) (MLRA 147, 148) 3 Loamy Gleyed Matrix (F2) 4 Loamy Gleyed Matrix (F2) 5 Loamy Gleyed Matrix (F2) 5 Loamy Gleyed Matrix (F3) 5 Loamy Gleyed Matrix (F3) 6 Loamy Gleyed Matrix (F3) 7 Loamy Gleyed Matrix (F3) 7 Loamy Gleyed Matrix (F3) 7 Loamy Gleyed Matrix (F3) 8 Loamy Gleyed Matrix (F3) 9 Loamy Gleyed Matri											
Histosol (A1)	8-20	10 YR 5/6	100				SIL	_			
Histosol (A1)								_			
Histosol (A1)											
Histosol (A1)			-					_			
Histosol (A1)											
Histosol (A1)											
Histosol (A1)		-	<u> </u>					_			
Histosol (A1)											
Histosol (A1)			·								
Histosol (A1)											
Histosol (A1)		-									
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydric Soil Present? Polyvalue Below Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Polyvalue Below Surface (S8) (MLRA 147, 148) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (International Soils (Interna			letion, RM=	Reduced Matrix, MS	=Masked Sand Gra	ains.					3
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sirtipped Matrix (S4) Sandy Redox (S5) Sirtipped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depleted Below Dark Surface (A12) Sandy Redox Depressions (F8) Liron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sirtipped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Type: Depth (inches): Hydric Soil Present? Yes Loamy Gleyed Matrix, 148) Loamy Gleyed Matrix, (F2) Piedmont Floodplain Soils (F19) (MLRA 127, 147) Brictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes										-	oiis":
Black Histic (A3)	_				• •	U D A 447					
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F2) Piedmont Floodplain Soils (F3) Piedmont Floodplain Soils (F4) (MLRA 148) Piedmont Floodplain Soils (F4) (MLRA 148) Piedmont Floodplain Soils (F4) (MLRA 127, 147)				·			148)			6)	
						47, 140)				ile (F10)	
2 cm Muck (A10) (LRR N)										113 (1 13)	
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) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Dark Bases (F12) (LRR N, D								•		ace (TF12)
	Depleted	Below Dark Surface	e (A11)	Depleted Dark	Surface (F7)		_	Other (Expla	in in Rema	ks)	
MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Estrictive Layer (if observed): Type: Depth (inches): MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Wetland hydrology must be proposed in the proposed in											
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)			_RR N,			LRR N,					
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be proposed Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic districtive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes							3,				
Stripped Matrix (\$6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problemate estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes										-	
Type: Hydric Soil Present? Yes	-							-			,
Type:				Neu Falelit Wi	ateriai (FZT) (WILK	H 121, 141) u	illess distuib	ed of proble	emanc.	
Depth (inches): Hydric Soil Present? Yes		-uyo: (0200: 10u).									
	iypc.						Hydric So	il Drocont?	Voc	No	~
emarks:	• • • • • • • • • • • • • • • • • • • •	shoc):					Hyuric 30	II FIESEIIL:	162	NO_	
	Depth (inc	ches):									
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	Depth (inc	ches):									
	Depth (inc	ches):									
	Depth (inc	ches):									

Project/Site: MVP	City/County: Webster	Sampling Date: 05/03/2015				
Applicant/Owner: MVP	State: W	V Sampling Point: W-A19				
	Section, Township, Range: N/A					
	Local relief (concave, convex, none): None	Slope (%): 6				
Subregion (LRR or MLRA): LRRN						
	-Buchanan (s8830) NWI cl					
	cal for this time of year? Yes No (If no, explai					
	significantly disturbed? Are "Normal Circumstan	ices" present? Yes No				
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point locations, trans	ects, important features, etc.				
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area					
Hydric Soil Present? Yes	, is the bampica Area	✓ No				
Wetland Hydrology Present? Yes	<u>✓ No</u>					
Remarks:						
Cowardin Code: PEM; HGM: Slope; W7						
•	s the data collected in 2015. The wetland was revi					
	ation, and hydric soils was confirmed using the US	SACE EMP Regional				
Supplement delineation methodology.						
HYDROLOGY						
Wetland Hydrology Indicators:	<u>Secondary</u>	Indicators (minimum of two required)				
Primary Indicators (minimum of one is required;	check all that apply) Surface	e Soil Cracks (B6)				
Surface Water (A1)	✓ True Aquatic Plants (B14) Sparse	ely Vegetated Concave Surface (B8)				
High Water Table (A2)		ge Patterns (B10)				
Saturation (A3)		Γrim Lines (B16)				
Water Marks (B1)		eason Water Table (C2)				
Sediment Deposits (B2)		sh Burrows (C8)				
Drift Deposits (B3)		tion Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		d or Stressed Plants (D1)				
Iron Deposits (B5)		orphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		w Aquitard (D3)				
Water-Stained Leaves (B9) ✓ Aquatic Fauna (B13)		Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)				
	<u>▼</u> FAC-N	editai Test (D5)				
Field Observations: Surface Water Present? Yes No	Depth (inches):0					
	Depth (inches): 0					
		Present? Yes V No				
Saturation Present? Yes No (includes capillary fringe)	Deptir (inches) wetland hydrology F	Present? Yes V No				
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if available:					
Remarks:						
Sopping wet linear side slope wetland, I	inear road, 2015 field survey notes.					
	•					

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

Sampling Point: W-A19

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
1100 Ottatam (1 lot bize.		Species?	·	Number of Dominant Species	5	(4)
1				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	•	
3				Species Across All Strata:	6	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	83	(A/B)
6	-	-		Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total Cov				
50% of total cover: 0	20% of	total cover		OBL species x		
Sapling/Shrub Stratum (Plot size: 15')	_			FACW species x 2		
1. Alnus serrulata	5		FACW_	FAC species x :		
2. Acer rubrum	1		F <u>AC</u>	FACU species x		
3. Rubus hispidus	2		FACW_	UPL species x :		
4. Rubus allegheniensis	2		F <u>ACU</u>	Column Totals: (A))	(B)
5. Acer saccharum	2		FAC	Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicate		_
7						
8				1 - Rapid Test for Hydrophyt ✓ 2 - Dominance Test is >50%		
9						
	12	= Total Cov	er	3 - Prevalence Index is ≤3.0		
50% of total cover: 6	20% of	total cover	2.4	4 - Morphological Adaptation		
Herb Stratum (Plot size: 5')				data in Remarks or on a s		
1. Juncus effusus	5		FACW	Problematic Hydrophytic Veg	jetation' (Expla	iin)
2. Viola sororia	20	~	FAC			
3. Osmunda cinnamonea	5		FACW	¹ Indicators of hydric soil and wetl		must
4. Polystichum acrostichoides	2		FACU	be present, unless disturbed or p		
5. Potentilla simplex	2		FACU	Definitions of Four Vegetation	Strata:	
6. Scirpus atrovirens	15		OBL	Tree – Woody plants, excluding v		
7	-	-		more in diameter at breast height height.	ι (DBH), regard	less of
8				noight.		
9				Sapling/Shrub – Woody plants,		
				than 3 in. DBH and greater than (m) tall.	or equal to 3.28	3 π (1
10	-		· ——	,		
11	49	= Total Cov		Herb – All herbaceous (non-wood of size, and woody plants less that		ırdless
50% of total cover: <u>24.5</u>				or size, and woody plants less the	311 3.20 It tall.	
Woody Vine Stratum (Plot size: 15')	2070 01	total cover		Woody vine – All woody vines g	reater than 3.28	3 ft in
				height.		
1						
2						
3						
4			· ——	Hydrophytic		
5	^			Vegetation Present? Yes ✓	No	
50% of total cover: 0		= Total Cover	_	163	NO	
		total cover				
Remarks: (Include photo numbers here or on a separate s		iaturbad	route for	r traval		
Tons of moss and aquatic vegetation. Veg is ob	viousiy u	isturbeu,	route ioi	rtiavei.		

SOIL Sampling Point: W-A19

Profile Desc	ription: (Describe to	o the dept	h needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-9	10YR 3/1	55	10 YR 5/1	_20	С	M	SaC	Dual matrix
			10YR 5/8	25	С	PL	SaC	Oxidized rhizospheres
9-20	10YR 6/1	80	10 YR 7/8	20	С	M		Dual matrix
					•			
					-			
1		- Con DM	De desert Matrice M				21	N. Dana Linian M. Martin
Hydric Soil I	ncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
-			Dorle Curtono	(07)				•
Histosol	ipedon (A2)		Dark Surface Polyvalue Be		ce (S8) (N	II RΔ 147		cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
Black His			Tolyvalde Be				((MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			, ,	F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	,	,			/ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar				_ 0	Other (Explain in Remarks)
	irk Surface (A12) lucky Mineral (S1) (L l	DD NI	Redox Depre			I DD N		
	147, 148)	KK N,	MLRA 13		es (F12) (LKK N,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 13	6. 122)	³ Inc	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
-	Matrix (S6)		Red Parent N					lless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soi	Present? Yes 🖊 No
Remarks:								
Disturbed s	soils.							

Wetland Photograph Page

Wetland ID W-A19



Photograph Direction SE

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 11/25/19

Project/Site: MVP		City/C	ounty: Webster		Sampling Date: 05/03/2015			
Applicant/Owner: MVP					Sampling Point: W-A19-UP			
Investigator(s): Cook, Heule, Lew		Section	on, Township, Range: N/					
Landform (hillslope, terrace, etc.): Slop					Slope (%): 35			
Subregion (LRR or MLRA): LRRN					Datum: NAD83			
Soil Map Unit Name: Pineville-Gilpin								
· · · · · · · · · · · · · · · · · · ·				NWI classific				
Are climatic / hydrologic conditions on the		•		•	·			
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes 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 san	pling point location	ns, transects	s, important features, etc.			
Hydrophytic Vegetation Present?								
Hydric Soil Present?	Yes	No 🗸	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				
Surface Water (A1)	-	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L				
Water Marks (B1)		Presence of Reduced	l 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 V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)			
Iron Deposits (B5)					Position (D2)			
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu				
Water-Stained Leaves (B9)				Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)			
Field Observations:	🗸	5 4 ()						
Surface Water Present? Yes	No	Depth (inches):						
	_	Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	lydrology Presei	nt? Yes No			
Describe Recorded Data (stream gaug	e, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
Remarks.								

Sampling	Point·\	N-A	19-UP
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30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')		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:5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6				That Are OBL, FACW, OF FAC.
7		-		Prevalence Index worksheet:
r	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 oovel		FACW species x 2 =
1. Carpinus caroliniana	15	~	FAC	FAC species x 3 =
	10			FACU species x 4 =
2. Ulmus americana			FACW_	
3. Acer saccharum	10		FACU_	UPL species x 5 =
4. Acer negundo	1		FAC	Column Totals: (A) (B)
5. Vaccinium corymbosum	1		<u>FACW</u>	Prevalence Index = B/A =
6. Liriodendron tulipifera	15		<u>FACU</u>	Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
<u></u>	52	= Total Cov	uor.	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 26				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	2070 01	total oovel		data in Remarks or on a separate sheet)
1. Dennstaedtia punctilobula	1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Galium sp			I <u>ACU</u>	
3. Polystichum acrostichoides	7			¹ Indicators of hydric soil and wetland hydrology must
-	4		FACU_	be present, unless disturbed or problematic.
4. Viola sororia			FAC	Definitions of Four Vegetation Strata:
5. Viola blanda	3		FACW_	Tree Mondy plants evaluding vince 2 in (7.6 cm) or
6. Viola hastata	4		<u>UPL</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Packera aurea	1		FACW_	height.
8				One Provide the Management and the section of the s
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.				
	22	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 11		total cover		or size, and woody plants loss than 6.20 it tall.
Woody Vine Stratum (Plot size: 15')	2070 01	total oovel		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	: <u> </u>	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Clear upland vegetation				
1 3				

SOIL Sampling Point: W-A19-UP

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirn	the ab	sence of indica	tors.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		ture	Remark	S
0-20	2.5 Y 6/6	100					Sa	aC		
										
								 -		
					, <u> </u>	,				
							-			
							_			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Loca	tion: PL=Pore Li		
Hydric Soil								Indicators for I		-
Histosol			Dark Surface					2 cm Muck		
	pipedon (A2)		Polyvalue Be				148)	Coast Prair	•	6)
Black H	stic (A3)		Thin Dark Sເ	ırface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)	
	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Piedmont F	loodplain Soi	ls (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 1	36, 147)	
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallo	w Dark Surfa	ce (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)			Other (Expl	ain in Remarl	ks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)					
Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (I	LRR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy C	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)		³ Indicators of	hydrophytic v	egetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l8)	wetland hydr	ology must be	e present,
Stripped	Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 147	7)	unless distur	bed or proble	matic.
Restrictive	Layer (if observed):									
Type:										
Depth (in	chas).						Hydi	ric Soil Present?	Yes	No 🗸
	onco).						yu.	TO CONTITUCCENT.		
Remarks:	nd soils									
Good upla	iu solis									

Project/Site: MVP	City/County: Web	ster	Sampling Date: 05/03/2015						
Applicant/Owner: MVP									
Investigator(s): A. Grech, S. Kelly, M. Whitte									
Landform (hillslope, terrace, etc.): Sideslope			Slope (%): 0-3						
Subregion (LRR or MLRA): LRRN			Datum: NAD 83						
Soil Map Unit Name: Pineville-Gilpin-Guyandott		=							
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes N	lo (If no, explain in F	Remarks.)						
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	oresent? Yes No						
Are Vegetation, Soil, or Hydrology _									
SUMMARY OF FINDINGS – Attach site		•							
Hydrophytic Vegetation Present? Yes	No Is the Sam								
	/ No is the Same		No						
Wetland Hydrology Present? Yes	No within a We	etiano? Yes	NO						
Remarks: Cowardin Code: PEM; HGM: Depressional; WT: NRPWW Information listed on this form represents the data collected in 2015. The wetland was revisited on 10/9/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.									
HYDROLOGY									
Wetland Hydrology Indicators:			ators (minimum of two required)						
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soil							
	True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)						
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)							
<u> </u>	Oxidized Rhizospheres on Living F	· , , —							
Water Marks (B1)	Presence of Reduced Iron (C4)	-	Water Table (C2)						
Sediment Deposits (B2)	Recent Iron Reduction in Tilled So								
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)		isible on Aerial Imagery (C9) stressed Plants (D1)						
Iron Deposits (B5)	Other (Explain in Remarks)		Position (D2)						
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu							
✓ Water-Stained Leaves (B9)			ographic Relief (D4)						
Aquatic Fauna (B13)		FAC-Neutral							
Field Observations:			. ,						
Surface Water Present? Yes No	Depth (inches):2								
Water Table Present? Yes No	Depth (inches):								
	Depth (inches):	Wetland Hydrology Presei	nt? Yes 🗸 No						
(includes capillary fringe)		Sanah Mana Yahila							
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspect	ions), if available:							
Remarks:									

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

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H70
201		Dominant		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)
4				Openies Across Air Strata.
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7	0	Tatal Car		Total % Cover of: Multiply by:
50% of total cover:0		= Total Cover	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20 /6 01	total cover		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 rotals (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 Co	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover	r: <u> </u>	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Juncus effusus	35		FACW_	1 Toblematic Hydrophytic Vegetation (Explain)
2. Scirpus atrovirens	30		OBL	1 adjectors of hydric coil and wetland hydrology must
3				¹ Indicators of hydric soil and wetland hydrology must 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.
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.				
· ·· <u> </u>	65	= Total Co		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>32.5</u>				or orze, and wedgy plante lede than 0.20 it tall.
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				
4				
	-			Hydrophytic
5	0	= Total Co		Vegetation Present? Yes ✓ No
50% of total cover: 0				
Remarks: (Include photo numbers here or on a separate s		10101 00101	·	
Transaction (morado prioto numbora nere or on a acparate a				

SOIL Sampling Point: W-H70

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	indicator	or confirm	the abser	nce of indicators.)
Depth	Matrix		Redox	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 5/2	98	7.5YR 4/6	2	С	M/PL	SICL	
2-15	10YR 5/3	98	7.5YR 4/6	2	С	M/PL	SICL	
15-20	Gley1 5/10Y	100					CL	
							'	
-	-							
-							-	
						·	'	
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I							Inc	dicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black His			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(F2)			Piedmont Floodplain Soils (F19)
	ck (A10) (LRR N)		Redox Dark S		- 6)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre					- ,
	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
	147, 148)		MLRA 130	•				
	leyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
	edox (S5) Matrix (S6)		Piedmont Flo Red Parent M					wetland hydrology must be present, unless disturbed or problematic.
	_ayer (if observed):		Ned Falentin	iateriai (i	Z1) (IVILIN	A 121, 141	' <i>)</i>	unless disturbed of problematic.
Type:								
	ches):						Hydric S	Soil Present? Yes No
Remarks:							,	
rtomants.								

Wetland Photograph Page

Wetland ID W-H70



Photograph Direction SW

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 10/09/19

Project/Site: MVP		City/0	County: Webster		Sampling Date: 05/03/2015			
Applicant/Owner: MVP					Sampling Point: W-H70-UP			
Investigator(s): A. Grech, S.Kelly, M. W.	hitten	Secti						
Landform (hillslope, terrace, etc.): Sideslope					Slope (%): 2-5			
Subregion (LRR or MLRA): LRRN								
Soil Map Unit Name: Pineville-Gilpin-Guy								
Are climatic / hydrologic conditions on the site					<u>-</u>			
Are Vegetation, Soil, or Hydrol								
Are Vegetation, Soil, or Hydrol								
SUMMARY OF FINDINGS – Attach	site map s	nowing sar	npling point location	ons, transects	, important features, etc.			
	es No_		Is the Sampled Area					
	es No_		within a Wetland?	Yes	No			
Wetland Hydrology Present? Ye Remarks:	es No_							
HYDROLOGY				Canandam, ladia				
Wetland Hydrology Indicators:	طلا العاداء عاماء المعا	at ample)			ators (minimum of two required)			
Primary Indicators (minimum of one is requir			(D14)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
Surface Water (A1) High Water Table (A2)		Aquatic Plants ogen Sulfide Oc		Sparsely vegetated Concave Surface (B6) Drainage Patterns (B10)				
Saturation (A3)	-	-	res on Living Roots (C3)					
Water Marks (B1)		nce of Reduce	= : : :					
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Bur				
Drift Deposits (B3)		Muck Surface (-	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other	(Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic	Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7	7)			Shallow Aqu				
Water-Stained Leaves (B9)					ographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No <u> </u>	h (inahaa):						
	No Dept							
	No Pept			Wetland Hydrology Present? Yes No				
(includes capillary fringe)		, ,			K: 103			
Describe Recorded Data (stream gauge, mo	nitoring well, as	erial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
1								

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

4.______ ____ _____

6._____

30'

Sapling/Shrub Stratum (Plot size: 15')

2. Dactylis glomerata

Tree Stratum (Plot size: ___

Herb Stratum (Plot size: ___ 1. Trifolium pratense

 Use scientific n 			la di a atau	Sampling Point: W-l	
)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:	
, 				Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
				Total Number of Dominant Species Across All Strata:	2 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	O (A/E
				Prevalence Index worksheet:	
	0	= Total Cov	er	Total % Cover of: Multip	ly by:
% of total cover:0	20% of	total cover:	0	OBL species x 1 =	
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 Indicators:	
				1 - Rapid Test for Hydrophytic Vege	tation
				2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov	_	4 - Morphological Adaptations ¹ (Prov	vide supportii
% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate	e sheet)
)	70	./	540 11	Problematic Hydrophytic Vegetation	1 (Explain)
	30		FACU_	, , , ,	` ' '
			F <u>ACU</u>	¹ Indicators of hydric soil and wetland hyd be present, unless disturbed or problema	
				Definitions of Four Vegetation Strata:	
				Tree – Woody plants, excluding vines, 3 more in diameter at breast height (DBH), height.	
				Sapling/Shrub – Woody plants, excludir than 3 in. DBH and greater than or equal m) tall.	
% of total cover: 50		= Total Cov total cover:		Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28	
% of total cover: <u>50</u> 15')	20 % 01	total cover.		Woody vine – All woody vines greater the height.	nan 3.28 ft in
				Hydrophytic Vegetation Present? Yes No	~
00/ of total		= Total Cov	_	165 NO_	<u>·</u>
0% of total cover: 0	20% of	total cover:	<u> </u>		

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

Woody Vine Stratum (Plot size: _______)

Sampling Point: W-H70-UP

SOIL

	Matrix	0/		x Features		1 2	T	Domorko		
inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture SICL	-	Remark	S
0-20	10YR 6/4	98	7.5YR 4/6	2	<u>C</u>	<u>M</u>	SICL	·		
<u> </u>										
								·		
					-					
	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: I	PL=Pore Lin	ing, M=Matri	ix.
	ndicators:									Hydric Soils
Histosol			Dark Surface		\			2 cm Muck (, .	•
	ipedon (A2)		Polyvalue Be				148)	Coast Prairie		6)
_ Black His	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 148)		MLRA 14 Piedmont Flo		lo (E10)
	Layers (A5)		Depleted Ma	,	-Z)		_	MLRA 13)		15 (F 19)
	ck (A10) (LRR N)		Redox Dark		6)		,	Very Shallov		ce (TF12)
	Below Dark Surface	(A11)	Depleted Dai	•	•			Other (Expla		
	rk Surface (A12)		Redox Depre	essions (F8	3)					
	ucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) ((LRR N,				
	147, 148)		MLRA 13	-			2			
	leyed Matrix (S4)		Umbric Surfa							egetation ar
-	edox (S5)		Piedmont Flo					etland hydro		
	Matrix (S6) ayer (if observed):		Red Parent N	viateriai (F	21) (WLH	A 127, 14	/) u	nless disturb	ea or proble	ematic.
estrictive L	ayer (ii observed).									
T										4
Type:									Yes	No <u>•</u>
Depth (inc	ches):						Hydric So	il Present?		
Depth (inc	thes):						Hydric So	il Present?		
Depth (inc	hes):		<u> </u>				Hydric So	il Present?		
Depth (inc	hes):						Hydric So	il Present?		
Depth (inc	:hes):						Hydric So	il Present?		
Depth (inc	hes):						Hydric So	Il Present?		
Depth (inc	hes):						Hydric So	Il Present?		
Depth (inc	rhes):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	hes):						Hydric So	Il Present?		
Depth (inc	hes):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	rhes):						Hydric So	Il Present?		
Depth (inc	hes):						Hydric So	Il Present?		
	hes):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	ches):						Hydric So	Il Present?		
Depth (inc	rhes):						Hydric So	Il Present?		
Depth (inc	rhes):						Hydric So	Il Present?		

Project/Site: MVP	City/County: Webster		Sampling Date: 05/03/2015
Applicant/Owner: MVP			Sampling Point: W-H71
Investigator(s): A. Grech, S. Kelly, M. Whitten	Section. Township. Rand		
Landform (hillslope, terrace, etc.): Ridgetop		-	Slope (%): -0
Subregion (LRR or MLRA): LRRN Lat:			Datum: NAD 83
Soil Map Unit Name: Gilpin-Dekalb complex, 15	_		
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach site ma			
			important reatares, etc.
Hydrophytic Vegetation Present?	Is the Sampled A		
Hydric Soil Present? Yes	Willing Welland	l? Yes <u>'</u>	No
Wetland Hydrology Present? Yes	_ No		
Remarks: Information listed on this form represents the	data collected in 2015. The we	tland was revisited	on 11/25/2019 The
wetland is located outside the current constr			
restrictions, wetland criteria could not be eva	•		
of wetland hydrology & hydrophytic vegetation	J J	• •	· •
	n was committee visually from v	vitiliii tile constructio	on LOD.
HYDROLOGY		0	((
Wetland Hydrology Indicators:	all that and h	·	tors (minimum of two required)
Primary Indicators (minimum of one is required; check		Surface Soil (
	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)		etated Concave Surface (B8)
	Oxidized Rhizospheres on Living Roots	Drainage Patt (C3) Moss Trim Lir	
	Presence of Reduced Iron (C4)		Vater Table (C2)
	Recent Iron Reduction in Tilled Soils (C6		
	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)
	Other (Explain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	Street (Explain in Heliante)	Geomorphic F	, ,
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	
✓ Water-Stained Leaves (B9)			phic Relief (D4)
✓ Aquatic Fauna (B13)		FAC-Neutral	
Field Observations:			. ,
	Depth (inches): 12		
Water Table Present? Yes No	Depth (inches):		
Saturation Present? Yes No		and Hydrology Present	t? Yes 🗸 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspections),	if available:	
Remarks: Red-spotted newts present during 2015 surv	/ev.		
Cowardin Code: PEM; HGM: Depressional;	WT: NRPWW		

VE

				1 - . -
ree Stratum (Plot size: 30')		Dominant Species?		Dominance Test worksheet:
			Otatao	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
				That Ale OBE, I AOW, OI I AO.
-				Total Number of Dominant Species Across All Strata: 3 (B)
				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:
		= Total Cov	_	OBL species x 1 =
50% of total cover: 0	20% of	total cover	. 0	
apling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
•				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				Provolence Index - P/A -
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
		-		2 - Dominance Test is >50%
	0	= Total Cov	or .	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0			_	4 - Morphological Adaptations ¹ (Provide supportin
erb Stratum (Plot size: 5')		10101 00701		data in Remarks or on a separate sheet)
Juncus effusus	35	/	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Scirpus atrovirens	30		OBL	
Dichanthelium clandestinum	30			¹ Indicators of hydric soil and wetland hydrology must
			FAC	be present, unless disturbed or problematic.
		-	· ——	Definitions of Four Vegetation Strata:
·				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
·				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
0				m) tall.
1				Herb – All herbaceous (non-woody) plants, regardless
	95	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>47.</u>	5 20% of	total cover	19	Mandania Allega de da constante de a 0.00 filia
/oody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
·				noight.
		-	·	
		-		Hydrophytic
	0		· 	Vegetation Present? Yes ✓ No ———
500/ of total occurs 0		Total Cover total cover		1703CHL. 103 110
		total cover		
emarks: (Include photo numbers here or on a separate s	sheet.)			

SOIL Sampling Point: W-H71

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absen	ce of indicators.)
Depth	Matrix		Redo	x Features	S			
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-4"	10YR 5/1	95	7.5YR 4/6	5	С	M/PL	SICL	
4-9"	10YR 5/6	100					SiCL	
							-	
1Type: C-C	oncentration, D=Depl	etion RM-F	Peduced Matrix MS	S-Maskad	Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		elion, Kivi=r	veduced Matrix, Mi	3=IVIASKEU	i Sanu Gi	airis.		licators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	/II RΔ 147	148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			141, 140,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dai					Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre					,
	lucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	86, 122)	3	Indicators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8)	wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7)	unless disturbed or problematic.
Restrictive I	Layer (if observed):							
_{Туре:} <u>В</u> є	edrock							
Depth (in	ches): <u>9</u>						Hydric S	oil Present? Yes No
Remarks:							1	

Wetland Photograph Page

Wetland ID W-H71



Photograph Direction SW

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 11/25/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	ounty: Webster		Sampling Date: 05/03/2015
Applicant/Owner: MVP		,			Sampling Point: W-H71-UP
Investigator(s): A. Grech, S	S.Kelly, M. Whitte	en Section	on Township Range N/		
Landform (hillslope, terrace, e					Slone (%): 0-3
			_		
Soil Map Unit Name: Gilpin-					
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 problems	atic? (If needed, e	xplain any answe	ers in Remarks.)
SUMMARY OF FINDIN	IGS – Attach si	te map showing sam	pling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Pres	cent? Ves				
Hydric Soil Present?	Yes	No	Is the Sampled Area	.,	🗸
Wetland Hydrology Present?	Yes _	No	within a Wetland?	Yes	No
Remarks:		<u> </u>			
Upland, mountain top c	learing.				
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 (B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa	tterns (B10)
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rer	narks)		tressed Plants (D1) Position (D2)
Inundation Visible on Ae	rial Imagery (R7)			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?		Depth (inches):		ydrology Preser	nt? Yes No
(includes capillary fringe)				,	
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if avai	ilable:	
Remarks:					

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

Sampling Point: W-H71-UP	
t worksheet:	

? Status	Number of Dominant Species 0 (A That Are OBL, FACW, or FAC: 0 (A Total Number of Dominant Species Across All Strata: 2 (E Percent of Dominant Species 0 (A That Are OBL, FACW, or FAC: 0 (A Prevalence Index worksheet:	
over o	Species Across All Strata: 2 (Example of Example of E	
over 0	Percent of Dominant Species 0 (A Prevalence Index worksheet:	
over 0	That Are OBL, FACW, or FAC: 0 (A Prevalence Index worksheet:	4/B)
over 0	Prevalence Index worksheet: Total % Cover of:	
over 0	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 =	
O	OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =	
	FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =	
	FAC species x 3 = FACU species x 4 = UPL species x 5 =	
	FACU species x 4 = UPL species x 5 =	
 	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%	
	_	
over		rtina
er:0		ung
FACU_	Problematic Hydrophytic Vegetation (Explain)	
FACU_	The Program of headers and an allowed broden have	
		ST.
	height.	3 01
	Continue (Charalta Wassington and Latin and Latin	
	m) tall.	`
	Herb – All herbaceous (non-woody) plants, regardle	222
over	of size, and woody plants less than 3.28 ft tall.	,,,,
er: 20	Woody vine All woody vines greater than 2.29 ft	in
	height.	""
	Hydrophytic	
	Vegetation	
over	Present? Yes No	
er:0		
	pover 20	### Accu

Sampling Point: W-H71-UP

SOIL

Depth	cription: (Describe to Matrix	to the dep		x Features	icator or comi	illi tile absence	or mulcate) i s. j	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ Loc ²			Remarks	
0-10	10YR 5/6	99	7.5YR 4/6	1 (<u> M</u>	CL			
10-20	10.5YR 5/2	95	7.5YR 4/6	5 (С М	CL			
							'		
							-		
							•		
Type: C=C	oncentration, D=Depl	etion. RM=	=Reduced Matrix. MS	S=Masked Sa	and Grains.	² Location: Pl	L=Pore Lini	ng, M=Matrix.	
	Indicators:							roblematic Hy	dric Soils ³ :
Histosol			Dark Surface	(S7)				A10) (MLRA 1 4	
	oipedon (A2)				(S8) (MLRA 14		,	Redox (A16)	,
Black Hi					ILRA 147, 148)		(MLRA 14	, ,	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2))	P	iedmont Flo	oodplain Soils ((F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(MLRA 13		
	ıck (A10) (LRR N)		Redox Dark	, ,				/ Dark Surface	
	d Below Dark Surface	e (A11)	<u>✓</u> Depleted Dar	•	7)	0	ther (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre		(540) (155)				
	Mucky Mineral (S1) (L	.RR N,			(F12) (LRR N,				
	A 147, 148) Gleyed Matrix (S4)		MLRA 13	•	.RA 136, 122)	3Ind	iontoro of h	ydrophytic veg	otation and
	Redox (S5)				(F19) (MLRA			logy must be p	
	Matrix (S6)				(MLRA 127, 1			ed or problema	
	Layer (if observed):			natorial (1 2 1)	, (, .	11)		ou or probleme	A.I.O.
Type:	, ,								
	ches):					Hydric Soil	Present?	Yes 🗸	No
						Tiyano con			
Remarks:									

Project/Site: MVP	City/County: Web	ster	Sampling Date: 05/03/2015
Applicant/Owner: MVP			Sampling Point: W-H72
Investigator(s): A. Grech, S. Kelly, M. Whitten			
Landform (hillslope, terrace, etc.): Ridgetop	Local relief (concave,	convex, none): Concave	Slope (%): 0
Subregion (LRR or MLRA): LRRN La	t: 38.553759	Long: -80.52775	Datum: NAD 83
Soil Map Unit Name: Gilpin silt loam, 3 to 15 pe		=	
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes N	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	oresent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site r	map showing sampling poi	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No La tha Garage		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	- Is the Sam	·	
Wetland Hydrology Present?	No within a W	etland? Yes	No
Remarks:			
Cowardin Code: PEM; HGM: Depressional Information listed on this form represents the presence of wetland hydrology, hydrophytic construction activity within the LOD.	he data collected in 2015. Th	e wetland was revisited was unable to be confi	on 10/10/2019. The irmed because of
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	_ True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)
	_ Hydrogen Sulfide Odor (C1)	Drainage Pa	itterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living I	Roots (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 So	ils (C6) Crayfish Bur	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)
1	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-Neutra	Test (D5)
Field Observations:			
	_ Depth (inches):		
	_ Depth (inches):		
	_ Depth (inches):	Wetland Hydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	ions), if available:	
Remarks:			
ixemaiks.			

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H72
201	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
				That Ale OBL, FACW, OF FAC (A)
2				Total Number of Dominant Species Across All Strata: 3 (B)
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	0			Total % Cover of: Multiply by:
50% of total cover:0		= Total Co	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	20 % 01	ioiai covei		FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4 5.				
5 6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0	Tatal Car		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. Juncus effusus	15	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Scirpus atrovirens	10		OBL OBL	
3. Microstegium viminum	10	<u> </u>	FAC	¹ Indicators of hydric soil and wetland hydrology must 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 more in diameter at breast height (DBH), regardless of
7				height.
8				One the original to the control of t
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
	35	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>17.5</u>				We advising All was divising a sector than 2 20 ft 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
	0	= Total Co	ver	Present? Yes V No No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
(,			

SOIL Sampling Point: W-H72

Depth	cription: (Describe	to the depti		<u>k Feature</u>		or commi	i tile absence	of mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type ¹	Loc ²	Texture	Remarks
0-15	10YR 5/1	95	7.5YR 4/6	5	С	M/PL	CL	
15-20	10YR 6/8	100					CL	
10 20	10111 0/0							
		· -			-			
		· —— -						
		· —— -						
			_					
		· -			-			
1- 0.0							21 5	
Type: C=C Hydric Soil	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	S=Masked	Sand G	rains.		L=Pore Lining, M=Matrix.
-			D 10 ((07)				ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(CO) (MI DA 447		cm Muck (A10) (MLRA 147)
	oipedon (A2) stic (A3)		Polyvalue Be Thin Dark Su				148) (Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		•	147, 140)	D	riedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		1 2)		'	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		- 6)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre					, ,
Sandy N	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Mass	es (F12)	(LRR N,		
MLRA	A 147, 148)		MLRA 136	6)				
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	1aterial (F	21) (ML F	RA 127, 147	7) un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								_
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H72



Photograph Direction South

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 10/10/19

Project/Site: MVP	City/County: W	ebster	_ Sampling Date: 05/03/2015			
Applicant/Owner: MVP			Sampling Point: W-H72-UP			
Investigator(s): A. Grech, S.Kelly, M. Whitte	en Section, Towns					
Landform (hillslope, terrace, etc.): Ridgetop			Slope (%): 0-3			
Subregion (LRR or MLRA): LRRN						
Soil Map Unit Name: Gilpin silt loam, 3 to 15						
Are climatic / hydrologic conditions on the site typi						
Are Vegetation, Soil, or Hydrology	· ·					
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit						
Somman of Findings - Attach sit	e map snowing sampling p	onit locations, transect	s, important reatures, etc.			
	No Is the Sa	ampled Area				
	No within a	Wetland? Yes	No			
Wetland Hydrology Present? Yes Remarks:	No					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi				
Surface Water (A1)		egetated Concave Surface (B8)				
Surface Water (A1)						
Saturation (A3)	ig Roots (C3) Moss Trim					
Water Marks (B1)	Presence of Reduced Iron (C4)	-	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled					
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)			c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aq				
Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopogi FAC-Neutra	raphic Relief (D4)			
Field Observations:		FAC-Neutra	ar rest (D3)			
	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Wetland Hydrology Prese	ent? Yes No_ 🗸			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ring well perial photos previous insp	ections) if available:				
Describe Recorded Data (Stream gauge, monitor	ing well, aeriai priotos, previous insp	ections), if available.				
Remarks:						

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

Sampling Point: W-H72-UP

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')		Species?		Number of Dominant Species
1. Quercus montana	70		UPL	That Are OBL, FACW, or FAC: (A)
2				
				Total Number of Dominant Species Across All Strata: 4 (B)
3				Species Across All Strata: 4 (B)
4			· ——	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				
7		•		Prevalence Index worksheet:
	70	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>35</u>				OBL species x 1 =
4.51	20% 01	total cover		FACW species x 2 =
Sapinig/Sinub Stratum (Flot Size)				
_{1.} Acer pensylvanicum	10		FACU	FAC species x 3 =
2. Acer rubrum	10	✓	FAC	FACU species x 4 =
3				UPL species x 5 =
			· ——	Column Totals: (A) (B)
4				(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
	20	= Total Cov	/er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:10	20% of	total cover	4	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1				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				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6			· ——	more in diameter at breast height (DBH), regardless of
7				height.
8				Continue/Chruth Woody plants avaluating visca 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				Herb – All herbaceous (non-woody) plants, regardless
_		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0	20% of	total cover	:0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1 Smilax rotundifolia	30	✓	FAC	noight.
			1710	
2				
3				
4				Hydrophytic
5.				Hydrophytic Vegetation
	30	Total Co.		Present? Yes No
50% of total cover: 15		= Total Cov	_	
		total cover	:	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-H72-UP

Profile Desc	ription: (Describe t	to the depth	needed to docum	nent the i	ndicator	or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redox	k Features	S						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-20	10YR 5/6	100					С				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I		•	,					licators for F			oils³:
Histosol			Dark Surface	(S7)				2 cm Muck		-	
	ipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prair			
Black His			Thin Dark Su				,	(MLRA 1		,	
	n Sulfide (A4)		Loamy Gleye	. ,	•	, ,		Piedmont F		oils (F19)	
	Layers (A5)		Depleted Mat		,			(MLRA 1		,	
	ck (A10) (LRR N)		Redox Dark S		6)				w Dark Surf	ace (TF12))
	Below Dark Surface	e (A11)	Depleted Dar					Other (Expl			
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	3)						
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	es (F12) (LRR N,					
MLRA	147, 148)		MLRA 136	6)							
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ l	ndicators of	hydrophytic	vegetation	and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8)	wetland hydr	ology must	be present	,
Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) (MLR	A 127, 147	')	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			<u></u>								
Depth (inc	ches):						Hvdric S	oil Present?	Yes	No	/
Remarks:			<u> </u>				1 ,				_
rtemants.											

Project/Site: MVP	City/County: Web	oster	Sampling Date: 05/03/2015					
Applicant/Owner: MVP		State: WV						
Investigator(s): A. Grech, S. Kelly, M. Whitten								
Landform (hillslope, terrace, etc.): Ridgetop	Local relief (concave,	convex, none): Concave	Slope (%): 0					
Subregion (LRR or MLRA): LRRN Lat		· · ·	Datum: NAD83					
Soil Map Unit Name: Gilpin silt loam, 3 to 15 pe		_						
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes 1	No (If no, explain in R	temarks.)					
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances"	oresent? Yes V No No					
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)					
SUMMARY OF FINDINGS – Attach site n	nap showing sampling poi	nt locations, transects	s, important features, etc.					
Hadrada fin Vanda fin Branca (2)	N-							
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sam	•						
Wetland Hydrology Present?	No within a W	etland? Yes	No					
Remarks:								
Cowardin Code: PEM; HGM: Depressional; WT: NRPWW Information listed on this form represents the data collected in 2015. The wetland was revisited on 10/9/2019. The presence of wetland hydrology, hydrophytic vegetation, and hydric soils was unable to be confirmed because of construction activity within the LOD.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)					
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil	Cracks (B6)					
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)								
	Hydrogen Sulfide Odor (C1)	Drainage Pa	tterns (B10)					
Saturation (A3)	Oxidized Rhizospheres on Living	Roots (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 Sc	oils (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 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)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)		✓ FAC-Neutral	Test (D5)					
Field Observations:								
	Depth (inches):							
	Depth (inches):							
	Depth (inches):	Wetland Hydrology Preser	nt? Yes 🗸 No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring)	well, aerial photos, previous inspec	tions), if available:						
, , ,	,	,						
Remarks:								

/EGETATION (Four Strata) – Use scientific n		Sampling Point: W-H73				
To 2 October (Black) 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30'</u>)		Species?		Number of Dominant Species That Are OBL FACW or FAC: 3 (A)		
1				That Are OBL, FACW, or FAC:3 (A)		
2				Total Number of Dominant Species Across All Strata: 3 (B)		
3				Species Across All Strata:3 (B)		
4 5.				Percent of Dominant Species		
~· ·				That Are OBL, FACW, or FAC: 100 (A/B)		
6				Prevalence Index worksheet:		
7	0	= Total Cov	· · · · · · · · · · · · · · · · · · ·	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 =		
3				UPL species x 5 =		
4				Column Totals: (A) (B)		
5				December of Laders - D/A		
6				Prevalence Index = B/A =		
7				Hydrophytic Vegetation Indicators:		
8				1 - Rapid Test for Hydrophytic Vegetation		
9				2 - Dominance Test is >50%		
	0 :	= Total Cov	/er	3 - Prevalence Index is ≤3.0¹		
50% of total cover:0	20% of	total cover	: 0	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)		
1. Juncus effusus	15		F <u>ACW</u>	Problematic Hydrophytic Vegetation (Explain)		
2. Carex crinita	10		<u>OBL</u>	¹ Indicators of hydric soil and wetland hydrology must		
3. Microstegium vimineum	10		F <u>AC</u>	be present, unless disturbed or problematic.		
4				Definitions of Four Vegetation Strata:		
5			<u> </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		
50% of total cover: _ 17.5		= Total Cov		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 15')	20% Of	total cover	: <u> </u>	Woody vine – All woody vines greater than 3.28 ft in		
				height.		
1						
	·					
4 5.				Hydrophytic Vegetation		
<u>. </u>	0	= Total Cov	/Or	Present? Yes V No No		
50% of total cover: 0		total cover	^			
Remarks: (Include photo numbers here or on a separate s						
the state of the s	· /					

SOIL Sampling Point: W-H73

Profile Desc	ription: (Describe t	o the depth	n needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	c Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 5/1	95	7.5YR 4/6	5	С	M/PL	CL	
			_					
								
·						· ——		
			<u> </u>					
					-	· ·		
						· '		
1							2	
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	=Masked	d Sand Gr	ains.		_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Bel	low Surfa	ce (S8) (I	/ILRA 147,	148) C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye		(F2)		P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S				V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar		. ,		0	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
MLRA	\ 147, 148)		MLRA 136					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa					cators of hydrophytic vegetation and
Sandy R	tedox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	') unl	ess disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type: Ha	ardpan							
Depth (inc							Hydric Soil	Present? Yes V No No
							,	
Remarks:								

Wetland Photograph Page

Wetland ID W-H73



Photograph Direction NE

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 10/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	county: Webster		Sampling Date: 05/03/2015			
Applicant/Owner: MVP					Sampling Point: W-H73-UP			
Investigator(s): A. Grech, S.Kelly, M. Whitten Section, Township, Range: NA								
Landform (hillslope, terrace, etc.): Ridge					Slope (%): 0-3			
Subregion (LRR or MLRA): LRRN					Datum: NAD 83			
Soil Map Unit Name: Gilpin silt loan								
Are climatic / hydrologic conditions on tl			_					
Are Vegetation, Soil, or		•						
Are Vegetation, Soil, or				explain any answe				
SUMMARY OF FINDINGS – A								
					, ,			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		Is the Sampled Area		1			
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:		<u> </u>						
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)		B14)		getated Concave Surface (B8)				
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)								
Saturation (A3)	es on Living Roots (C3)	Moss Trim Li	nes (B16)					
Water Marks (B1)		Presence of Reduced	, ,	Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reductio						
Drift Deposits (B3)		Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	 '	Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Image	any (R7)			Geomorphic Position (D2) Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	лу (Бг)				phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:				<u> </u>	()			
Surface Water Present? Yes	No 🗸	Depth (inches):						
		Depth (inches):						
		Depth (inches):		lydrology Presen	it? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge	ne monitoring w	vell perial photos pre	wious inspections) if ava	ilahle:				
Describe Necorded Data (Stream gade	je, monitoring w	reii, aeriai priotos, pre	ivious irispections), ii ava	illable.				
Remarks:								

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

Sapling/Shrub Stratum (Plot size: 15')

1. Acer pensylvanicum

Herb Stratum (Plot size: 5'

2. Acer rubrum

Tree Stratum (Plot size: _

1. Quercus montana

__)

30 = Total Cover

Hydrophytic Vegetation

Present?

50% of total cover: 35 20% of total cover: 14

50% of total cover: 10 20% of total cover: 4

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

50% of total cover: 15 20% of total cover: 6

4.______ ____ ______

5._____ ___ ____

Dominant Species?		Number of Domin That Are OBL, For Total Number of	nant Specie			
Species?		That Are OBL, F		s		
		Total Number of			2	(A)
		Species Across A			4	(B)
		Percent of Domir That Are OBL, F			50	(A/B)
		Prevalence Inde	x workshe	et:		
					ultiply by:	
				x 1 =		
Jiai cover.		_ · -		x 2 =		_
/	UPI	l	40	x 3 =	120	_
		l		x 4 =		_
	I <u>AC</u>	l	80	x 5 =	400	_
		Column Totals:	120	(A)	520	— (B)
		Prevalence	Index = B/	_ 、 / .	4.33	_
		Hydrophytic Ve	getation Inc	dicators	:	
		1 - Rapid Te	st for Hydro	phytic V	egetation	
		2 - Dominan	ce Test is >	50%		
	-	3 - Prevalen	ce Index is :	≤3.0 ¹		
		4 - Morpholo	gical Adapt	ations¹ (I	Provide sup	porting
Jiai cover.		data in R	emarks or o	n a sepa	rate sheet)	
		Problematic	Hydrophytic	c Vegeta	tion ¹ (Expla	in)
						must
		Definitions of Fo	our Vegeta	tion Stra	ıta:	
	^					ırdless
otal cover:	<u> </u>	Woody vine – A height.	ll woody vin	es greate	er than 3.28	3 ft in
	FAC					
	Total Cover:	Total Cover otal cover: 14 V UPL FAC Total Cover otal cover: 4 Total Cover otal cover: 4 Total Cover otal cover: 0	Total Cover otal cover: 14 Total Cover otal cover: 14 V UPL FAC FAC FAC FAC FAC FAC FAC FA	Total Cover otal cover: 14 V UPL FAC FAC Whydrophytic Vegetation Inc. 1 - Rapid Test for Hydro 2 - Dominance Test is > 3 - Prevalence Index is : 4 - Morphological Adapt data in Remarks or or Problematic Hydrophytic 1 Indicators of hydric soil and be present, unless disturbed Definitions of Four Vegetation of the ight. Sapling/Shrub – Woody plants, excluding more in diameter at breast height. Total Cover otal cover: 0 Woody vine – All woody vinheight.	OBL species	Prevalence Index worksheet: Total Cover OBL species

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

Woody Vine Stratum (Plot size: 15') 1. Smilax rotundifolia

Yes ____ No ___

Sampling Point: W-H73-UP

SOIL

Profile Desc	ription: (Describe t	to the depth	needed to docum	nent the i	ndicator	or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redox	k Features	S						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-20	10YR 5/6	100					С				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I		•	,					licators for F			oils³:
Histosol			Dark Surface	(S7)				2 cm Muck		-	
	ipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prair			
Black His			Thin Dark Su				,	(MLRA 1		,	
	n Sulfide (A4)		Loamy Gleye	. ,	•	, ,		Piedmont F		oils (F19)	
	Layers (A5)		Depleted Mat		,			(MLRA 1		,	
	ck (A10) (LRR N)		Redox Dark S		6)				w Dark Surf	ace (TF12))
	Below Dark Surface	e (A11)	Depleted Dar					Other (Expl			
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	3)						
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	es (F12) (LRR N,					
MLRA	147, 148)		MLRA 136	6)							
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ l	ndicators of	hydrophytic	vegetation	and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8)	wetland hydr	ology must	be present	,
Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) (MLR	A 127, 147	')	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			<u></u>								
Depth (inc	ches):						Hvdric S	oil Present?	Yes	No	/
Remarks:			<u> </u>				1 ,				_
remains.											

Project/Site: MVP	City/County: We	bster	Sampling Date: 05/03/2015					
Applicant/Owner: MVP		State: WV						
Investigator(s): A. Grech, S. Kelly, M. Whitten								
Landform (hillslope, terrace, etc.): Ridgetop	Local relief (concave	, convex, none): Concave	Slope (%): 0					
Subregion (LRR or MLRA): LRRN Lat			Datum: NAD 83					
Soil Map Unit Name: Gilpin silt loam, 3 to 15 pe		=						
Are climatic / hydrologic conditions on the site typical f	for this time of year? Yes	No (If no, explain in F	Remarks.)					
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances"						
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)					
SUMMARY OF FINDINGS – Attach site n	nap showing sampling po	int locations, transects	s, important features, etc.					
Hadaahafa Vaastafaa Baasa 10	NI-							
Hydrophytic Vegetation Present? Yes Ves Hydric Soil Present? Yes	No	npled Area						
Wetland Hydrology Present?	No within a W	Vetland? Yes	No					
Remarks:	L							
Cowardin Code: PEM; HGM: Depressional; WT: NRPWW Information listed on this form represents the data collected in 2015. The wetland was revisited on 10/9/2019. The presence of wetland hydrology, hydrophytic vegetation, and hydric soils was unable to be confirmed because of construction activity within the LOD.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicate	ators (minimum of two required)					
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil	Cracks (B6)					
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)								
	Hydrogen Sulfide Odor (C1)	Drainage Pa	atterns (B10)					
Saturation (A3)	Oxidized Rhizospheres on Living	Roots (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 S	oils (C6) Crayfish Bui	rows (C8)					
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	Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic	Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	itard (D3)					
✓ Water-Stained Leaves (B9)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)		FAC-Neutra	Test (D5)					
Field Observations:								
	_ Depth (inches):							
	_ Depth (inches):							
	_ Depth (inches):	Wetland Hydrology Prese	nt? Yes 🔽 No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	tions), if available:						
, , ,	,	,						
Remarks:								

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

____)

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

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

50% of total cover: 40 20% of total cover: 16

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: ___

2. Scirpus atrovirens

4. Juncus effusus

1. Dichanthelium clandestinum

3. Microstegium vimineum

Woody Vine Stratum (Plot size: 15')

nes of	plants.		Sampling F	Poin	t: <u>W-H74</u>	
bsolute			Dominance Test worksheet:			
<u>6 Cover</u>	Species?	<u>Status</u>	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:		
		·	Total % Cover of:		Multiply by:	
	= Total Cov	^	OBL species		=	
20% of	total cover	:	FACW species			
			FAC species		- =	
			· —		- =	_
						_
			UPL species	x 5	=	_ (D)
		·	Column Totals:	(A)	-	(B)
		·	Prevalence Index = B/A	\ =		_
			Hydrophytic Vegetation Indi	icato	rs:	
			1 - Rapid Test for Hydrop	hytic	Vegetation	
			✓ 2 - Dominance Test is >5	0%		
			3 - Prevalence Index is ≤	3.0 ¹		
	= Total Cov	_	4 - Morphological Adapta	tions	(Provide su	portin
20% of	total cover	:0	data in Remarks or on			
20			Problematic Hydrophytic		•	
30		F <u>AC</u>		- 3 -	()	,
20 20	<u> </u>	OBL FAC	¹ Indicators of hydric soil and v			must
10		FACW_	Definitions of Four Vegetati			
		·	Tree – Woody plants, excluding more in diameter at breast he height.	ng vir	nes, 3 in. (7.6	
		·	Sapling/Shrub – Woody plan than 3 in. DBH and greater the m) tall.			
	= Total Cov	40	Herb – All herbaceous (non-work of size, and woody plants less			ardless
20% 01	total cover		Woody vine – All woody vine height.	s gre	ater than 3.2	8 ft in
	= Total Cov	^	Hydrophytic Vegetation Present? Yes		No	

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

SOIL Sampling Point: W-H74

Profile Desc	ription: (Describe t	o the dept	h needed to docun	ent the i	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redox	c Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/2	80	7.5YR 4/6	20	С	M/PL	CL	
4-20	10YR 4/6	85	7.5YR 4/6	15	С	M/PL	CL	
		-						
						·		
1Tymo: C. C.	anneantration D. Donl	otion DM	Dadwaad Matrix MC	Mooko			² L continue D	L Doro Lining M Motrice
Hydric Soil	oncentration, D=Depl	etion, Rivi=	Reduced Matrix, MS	=IVIasked	Sand Gr	ains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
-			David Ouriford	(07)				•
Histosol			Dark Surface		oo (CO) (B	AL DA 447		cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148) C	coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)	Б	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		(FZ)		<u> </u>	iedmont Floodplain Soils (F19)
	ick (A10) (LRR N)		Redox Dark S	. ,	-c)		١/	(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dar	,	,			other (Explain in Remarks)
	ark Surface (A12)	(7,11)	Redox Depre				_ ~	THE (Explain in Kemarks)
	lucky Mineral (S1) (L	RR N	Iron-Mangane			I RR N		
	147, 148)	ixix i x ,	MLRA 136		C3 (1 12) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa		(MIRA 13	86 122)	³ Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):		110011 0101111	iatoriai (i			1	issoc distance of problematic.
Type:								
	ahaa):						Hydric Soil	Present? Yes V No No
	ches):						nyuric Soii	Present? res No
Remarks:								

Wetland Photograph Page

Wetland ID W-H74



Photograph Direction NW

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction East

Date: 10/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	Cit	y/County: Webster		Sampling Date: 05/03/2015		
Applicant/Owner: MVP	_	, ,		Sampling Point: W-H74-UP		
Investigator(s): A. Grech, S.Kelly, M. Wh	nitten Se					
Landform (hillslope, terrace, etc.): Ridgetop				Slope (%): 0-3		
Subregion (LRR or MLRA): LRRN				Datum: NAD 83		
Soil Map Unit Name: Gilpin silt loam, 3 to						
Are climatic / hydrologic conditions on the site						
Are Vegetation, Soil, or Hydrok				· .		
Are Vegetation, Soil, or Hydrok			explain any answe			
SUMMARY OF FINDINGS – Attach						
	· · · · · · · · · · · · · · · · · · ·			, por tant routuros, etc.		
	No	Is the Sampled Area		•		
	No No	within a Wetland?	Yes	No		
Remarks:	5 INU					
HYDROLOGY						
Wetland Hydrology Indicators:				ators (minimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil			
Surface Water (A1)	True Aquatic Plan		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide		Drainage Pa			
Saturation (A3)	Oxidized Rhizospi Presence of Redu	heres on Living Roots (C3)	Moss Trim L			
Water Marks (B1) Sediment Deposits (B2)		ction in Tilled Soils (C6)	Dry-Season Water Table (C2) Soils (C6) Crayfish Burrows (C8)			
Octament Deposits (B2) Drift Deposits (B3)	Thin Muck Surface		Craylish Bullows (Co) Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in I			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:						
	o Depth (inches):_					
	o Depth (inches):			,		
Saturation Present? Yes N (includes capillary fringe)	o Depth (inches):	Wetland F	lydrology Preser	nt? Yes No		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos,	previous inspections), if ava	ilable:			
-						
Remarks:						

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

Sampling Point: W-H74-UP

Trop Stratum (Blot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Fiot Size)		Species?		Number of Dominant Species	0	
1. Quercus montana	70		UPL	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:		(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total Cov				
50% of total cover: <u>35</u>	20% of	total cover	: 14	OBL species x ^		_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2		_
1. Acer pensylvanicum	10	~	UPL	FAC species 40 x 3	3 = <u>120</u>	_
2. Acer rubrum	10		FAC	FACU species x 4	4 =	_
				UPL species 80 x 5	5 = 400	
3				Column Totals: (A)		(B)
4				Coldifii Totals(A)	·	_ (b)
5				Prevalence Index = B/A =	4.33	
6				Hydrophytic Vegetation Indicat		_
7						
				1 - Rapid Test for Hydrophyti	-	
8		-	· ——	2 - Dominance Test is >50%		
9	00			3 - Prevalence Index is ≤3.0 ¹	I	
		= Total Cov		4 - Morphological Adaptation	ns¹ (Provide sur	portina
50% of total cover: 10	20% of	total cover	:4	data in Remarks or on a s		
Herb Stratum (Plot size: 5')					. ,	
1				Problematic Hydrophytic Veg	jetation' (Expla	in)
2				¹ Indicators of hydric soil and wetla		must
3				be present, unless disturbed or p	roblematic.	
4				Definitions of Four Vegetation	Strata:	
5						
6				Tree – Woody plants, excluding v		
7				more in diameter at breast height height.	(DBH), regard	less of
				neight.		
8				Sapling/Shrub – Woody plants,	excluding vines	, less
9				than 3 in. DBH and greater than of	or equal to 3.28	3 ft (1
10				m) tall.		
11.				Herb – All herbaceous (non-wood	dy) plante roas	rdlocc
	0	= Total Cov	ωr	of size, and woody plants less that		luiess
50% of total cover: 0		total cover		or orac, and modely prainterest and	0. <u>_</u> 0 ta	
	20 /0 01	total cover		Woody vine – All woody vines gi	reater than 3.28	3 ft in
Woody Vine Stratum (Plot size: 15')	20	.,		height.		
1. Smilax rotundifolia	30		<u>FAC</u>			
2						
3						
4						
				Hydrophytic		
5	20			Vegetation Yes	No 🗸	
45		= Total Cov	_	rieseitt! ies	NO <u>*</u>	
50% of total cover:15	20% of	total cover	<u>: 6</u>			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-H74-UP

SOIL

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	c Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-20	10YR 5/6	100					С				
								-			
								-			
								-			
¹Type: C=Co	oncentration, D=Depl	etion RM=R	educed Matrix MS	=Masked	Sand Gra	ains	² Location: I	PI =Pore I ir	ning M=Mat	rix	
Hydric Soil I		ouon, run-r	ioaaooa mainx, me	-maonoa	Cana On	AII 10.			Problematic		oils³:
Histosol			Dark Surface	(97)					(A10) (MLR	-	
	oipedon (A2)		Polyvalue Be		ce (S8) /N	II RA 147			e Redox (A		
Black His			Tolyvalde Be				,	(MLRA 1		. 5,	
	n Sulfide (A4)		Loamy Gleye	, ,	•	, 1-0)			loodplain So	oils (F19)	
	Layers (A5)		Depleted Mat		· - /			(MLRA 1)o (1 10)	
	ck (A10) (LRR N)		Redox Dark S		·6)		,		w Dark Surf	ace (TF12)	
	Below Dark Surface	e (A11)	Depleted Dar						ain in Rema		
	rk Surface (A12)	,	Redox Depre					` '		,	
	lucky Mineral (S1) (L	.RR N,	Iron-Mangane			LRR N,					
	147, 148)		MLRA 130		· / ·						
	leyed Matrix (S4)		Umbric Surfa	-	MLRA 13	6, 122)	³ In	dicators of I	nydrophytic	vegetation	and
	edox (S5)		Piedmont Flo						ology must l	-	
	Matrix (S6)		Red Parent M						bed or probl		
Restrictive L	ayer (if observed):										
Type:											
	ches):		_				Hydric So	il Present?	Yes	No	/
Remarks:	,										

Project/Site: MVP	City/County: V	Vebster	_ Sampling Date: 05/03/2015				
Applicant/Owner: MVP			Sampling Point: W-H67				
Investigator(s): A. Grech, S. Kelly, M. Whitten	Section, Town						
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (conca	ave, convex, none): None	Slope (%): 1				
Subregion (LRR or MLRA): LRRN Lat:		Long: -80.539219	Datum: NAD83				
Soil Map Unit Name: Craigsville gravelly loam, C		NWI classif					
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes	No (If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No				
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	ers in Remarks.)				
SUMMARY OF FINDINGS – Attach site m	ap showing sampling	point locations, transect	s, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes	NI ₀	Sampled Area	,				
Wetland Hydrology Present?	No within	a Wetland? Yes	No				
Remarks: Cowardin Code: PFO HGM: Riverine WT: RPWWD							
Information listed on this form represents the data of		d was revisited on 10/08/2019	Presence of wetland hydrology				
hydrophytic vegetation, and hydric soils was confirm			, ,				
was cleared of woody vegetation within LOD as par	_	=	= -				
community present in the wetland prior to the start of	of construction.						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)				
Primary Indicators (minimum of one is required; 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 P	atterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Liv	ing Roots (C3) Moss Trim	Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4	l) Dry-Seasor	Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	d Soils (C6) Crayfish Bu	rrows (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	c Position (D2)				
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)							
Water-Stained Leaves (B9)		Microtopog	raphic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)				
Field Observations:							
Surface Water Present? Yes No							
Water Table Present? Yes No			<u>.</u>				
	Depth (inches): 10	Wetland Hydrology Prese	nt? Yes <u>/</u> No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous ins	pections), if available:					
Remarks:							
Normano.							

VEGETATION (Four Strata) - Use scientific names of plants

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H67
201	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')		Species?	Status	Number of Dominant Species
1. Betula alleghaniensis	50		FAC	That Are OBL, FACW, or FAC:3 (A)
2. Acer rubrum	20	_	FAC	Total Number of Device of
3. Carpinus caroliniana	15		FAC	Total Number of Dominant Species Across All Strata: 3* (B)
4				(S)
5.				Percent of Dominant Species
				That Are OBL, FACW, or FAC:100 (A/B)
6		· ——		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
40.4		= Total Cov		OBL species x 1 =
50% of total cover: <u>42.</u>	20% of	total cover:	17	
Sapling/Shrub Stratum (Plot size: 15')	_			FACW species x 2 =
1. Carpinus caroliniana	5		FAC	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
_				
				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: 2.5	20% of	total cover:	1	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				,
1. Dryopteris sp.	35		ND	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Symplocarpus foetidus	5		OBL	
3. Onoclea sensibillis	5		FACW	¹ Indicators of hydric soil and wetland hydrology must
· ·			<u> </u>	be present, unless disturbed or problematic.
4 5.				Definitions of Four Vegetation Strata:
•				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
	45	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22.5				
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
1				neight.
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 ND - Not Determined	sheet.)			
Tion Botonimiou				
* Vegetation not identified down to species not i	included i	in domina	nce test	
vegetation not lacitatied down to species not i	i ioiuucu i	iii uoiiiiila	1100 1031	•

SOIL Sampling Point: W-H67

Profile Desc	ription: (Describe t	o the dep	th needed to docur	nent the i	indicator	or confirm	the absen	ce of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	<u>Remarks</u>
0-5"	10YR 4/3	100					SL	
5-19"	10YR 4/2	95	7.5YR 4/6	5	С	М	S	
19-21"	10YR 6/4	90	7.5YR 4/6	10	С	М	S	
					-			
					-			
					-			
					-			
					-			
1Type: C=C	oncentration, D=Depl	etion RM-	-Reduced Matrix M	S-Masker			² l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil		elion, Kivi=	-Neduced Matrix, Mi	3=IVIASKE	J Sand Gra	ali 15.		icators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147,	148) _	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				· —	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	, ,				(MLRA 136, 147)
	ick (A10) (LRR N)	(111)	Redox Dark	•	,		_	Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Date Redox Depre				_	Other (Explain in Remarks)
	lucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,		
	\ 147, 148)	,	MLRA 13		()(,		
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (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-H67



Photograph Direction NW

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 10/08/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/0	County: Webster		Sampling Date: 05/03/2015		
Applicant/Owner: MVP						Sampling Point: W-H67-UP		
	Whitten	Section, Township, Range: NA						
Landform (hillslope, terrace, etc.): Valley						Slope (%): 1-4		
Subregion (LRR or MLRA): LRRN						Datum: NAD 83		
Soil Map Unit Name: Craigsville gravel								
Are climatic / hydrologic conditions on the s								
Are Vegetation, Soil, or Hyd			-					
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Attac					explain any answe			
		-	willig Sai		ons, nansecu	s, important reatures, etc.		
	Yes		<u>/</u>	Is the Sampled Area				
	Yes		<u> </u>	within a Wetland?	Yes	No		
Wetland Hydrology Present? Remarks:	Yes	No	<u> </u>					
Upland, forest								
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one is req	uired; check	call that a	apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)		True Aqu	uatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydroge	n Sulfide Od	dor (C1)	Drainage Pa	atterns (B10)		
Saturation (A3)		Oxidized	l Rhizosphe	res on Living Roots (C3)	Moss Trim L	Lines (B16)		
Water Marks (B1)		Presence	e of Reduce	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent I	ron Reduction	on in Tilled Soils (C6)				
Drift Deposits (B3)			ck Surface (isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (E	xplain in Re	marks)		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)				1	FAC-Neutra	I Test (D5)		
Field Observations: Surface Water Present? Yes	No	Denth (i	inches):					
	No V							
	No V				Hydrology Prese	nt? Yes No ✔		
(includes capillary fringe)		• •	,			iit: 165 NO		
Describe Recorded Data (stream gauge, r	nonitoring w	vell, aeria	ıl photos, pro	evious inspections), if av	/ailable:			
Remarks:								
remand.								

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

4.______ ____ _____

0 = Total Cover

Present?

50% of total cover: 35 20% of total cover: 14

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

50% of total cover: 27.5 20% of total cover: 11

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

Tree Stratum (Plot size:

2. Fagus grandifolia

Herb Stratum (Plot size: _

1. Dichanthelium clandestinum

2. Creeping cinquifoil

3. Prunus serotina

1. Liriodendron tulipifera

Sapling/Shrub Stratum (Plot size: 15'

mes of	plants.		Sampling Po	int: <u>W-H67-L</u>	JP
Absolute			Dominance Test worksheet:		
% Cover_	Species? ✓		Number of Dominant Species	1	(4)
25		FACU FACU	That Are OBL, FACW, or FAC:		(A)
20		FACU	Total Number of Dominant	_	
20		<u>FACU</u>	Species Across All Strata:	5	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	20	(A/B)
			Prevalence Index worksheet:		
70	= Total Cov		Total % Cover of:	Multiply by:	
	total cover:		OBL species x	1 =	_
2070 01	10141 00101.		FACW species x	2 =	_
			FAC species x	3 =	
			FACU species x	4 =	
			UPL species x	5 =	
			Column Totals: (A	a)	(B)
			Prevalence Index = B/A =		_
			Hydrophytic Vegetation Indica		
			1 - Rapid Test for Hydrophy	_	
			2 - Dominance Test is >50%		
0	= Total Cov	er	3 - Prevalence Index is ≤3.0		
	total cover:	_	4 - Morphological Adaptation		
			data in Remarks or on a	•	
30		F <u>AC</u>	Problematic Hydrophytic Ve	getation' (Expla	ain)
25		F <u>ACU</u>	¹ Indicators of hydric soil and wet be present, unless disturbed or p		must
			Definitions of Four Vegetation		
			Tree – Woody plants, excluding more in diameter at breast heigh height.		
			Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.		
55	= Total Cov		Herb – All herbaceous (non-wood of size, and woody plants less the		ardless
20% of	total cover:	11	Woody vine – All woody vines gheight.	reater than 3.2	8 ft in
			Hydrophytic Vegetation		

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

Woody Vine Stratum (Plot size: 15')

Yes ____ No ___

Sampling Point: W-H67-UP

SOIL

Profile Desc	ription: (Describe t	o the depth	n needed to docum	ent the ir	ndicator o	or confirm	the absend	ce of indicat	ors.)		
Depth	Matrix		Redox	(Features	}						
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture		Remark	(S	
0-7	10YR 3/2	100					S	_			
7-14	7.5YR 4/4	100					S				
14-21	2.5YR 6/3	100					SL				
			_								
			_				-	_			
			_								
								_			
			_								
¹ Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	=Masked	Sand Gra	ins.	² l ocation:	PL=Pore Lin	ing M=Mati	ix.	
Hydric Soil		ouon, ruvi–i	toddood Matrix, Me		Odila Ole			icators for P			ls³:
Histosol			Dark Surface	(S7)				2 cm Muck (-	
	pipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,	148)	Coast Prairie			
Black Hi	. , ,		Thin Dark Su				<i>'</i> —	(MLRA 14	,	,	
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	- 2)			Piedmont FI	oodplain So	ils (F19)	
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 1	36, 147)		
	ıck (A10) (LRR N)		Redox Dark S					Very Shallov		, ,	
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Expla	ain in Remai	rks)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (L	LRR N,					
	A 147, 148)		MLRA 136				3.				
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of h		-	nd
	Redox (S5)		Piedmont Flo					wetland hydro			
	Matrix (S6) Layer (if observed):		Red Parent M	iateriai (F2	21) (WLK)	4 127, 147) (unless disturb	bea or proble	ematic.	
	Layer (ii observeu).										
Type:	ahaa):						Uvdria C	oil Present?	Yes	No	/
	ches):						nyunc so	JII Flesellt?		NO	
Remarks:											

Project/Site: MVP	City/Co	ounty: Webster		Sampling Date: 05/03/2015		
Applicant/Owner: MVP		Sampling Point: W-H66				
Investigator(s): A. Grech, S. Kelly, M. Whit	tten _{Sectio}	n. Township, Range: N		_ ,		
Landform (hillslope, terrace, etc.): Valley botto				Slope (%): 1-4		
Subregion (LRP or MLRA): LRRN	38.548874	Long: -80	.539561	Datum: NAD83		
Subregion (LRR or MLRA): LRRN Soil Map Unit Name: Craigsville gravelly loa	_ Lat am 0 to 5 percent slop	Long es	NNA/I -1 'C' -	Datum		
Are climatic / hydrologic conditions on the site type	-					
Are Vegetation, Soil, or Hydrology	y significantly disturb	ped? Are "Normal	I Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology	ynaturally problema	tic? (If needed, e	explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach si	ite map showing sam	pling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes _	✓ No					
Hydric Soil Present? Yes		Is the Sampled Area				
Wetland Hydrology Present? Yes		within a Wetland?	Yes	No		
Remarks: Cowardin Code: PFO HGM: Riverin						
Information listed on this form represer of wetland hydrology, hydrophytic vege Supplement delineation methodology. cleared of woody vegetation within LOI	nts the data collected in etation, and hydric soils A portion of the wetland D as part of Proiect cor	n 2015. The wetland was confirmed usi d was obstructed by enstruction in 2018.	d was revisited ng the USACE y timber mattin Vegetation liste	on 11/25/2019. Presence EMP Regional g and the wetland was ed on this form represents		
HYDROLOGY						
Wetland Hydrology Indicators:			-	tors (minimum of two required)		
Primary Indicators (minimum of one is required;			Surface Soil	` '		
Surface Water (A1)	True Aquatic Plants (E		Sparsely Veg	getated Concave Surface (B8)		
High Water Table (A2)	- · · ·					
Saturation (A3)	Presence of Reduced	• , ,	Moss Trim Li	` '		
Water Marks (B1) Sediment Deposits (B2)	Recent Iron Reduction	` ,	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C	` ,	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rem	,	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:						
<u> </u>	Берит (птепез)	8				
Water Table Present? Yes No _	Depth (inches):	0				
	Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, prev	/ious inspections), if ava	nilable:			
	omig from demar priotoe, pro-					
Remarks:						

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

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: W-H66
201	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30'		Species?	Status	Number of Dominant Species
1. Acer saccharinum	20		<u>FACW</u>	That Are OBL, FACW, or FAC:8 (A)
2. Acer rubrum	15		FAC	Total Number of Dominant
3. Betula alleghaniensis	15		FAC	Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Are OBE, I ACW, OF I AC.
7	-			Prevalence Index worksheet:
	50	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 25		total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	2070 01	total oover.		FACW species x 2 =
1. Salix sericea	5	~	OBL	FAC species x 3 =
2. Acer rubrum	5	<u> </u>		FACU species x 4 =
3. Betula alleghaniensis	5		FAC	UPL species x 5 =
·			F <u>AC</u>	
4				Column Totals: (A) (B)
5		·		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7		. <u></u>		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	15	= Total Cov	er	
50% of total cover: 7.5	20% of	total cover:	3	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:5'				data in Remarks or on a separate sheet)
1. Impatiens capensis	35	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Symplocarpus foetidus	35		OBL	
3. Onoclea sensibillis	20		OBL	¹ Indicators of hydric soil and wetland hydrology must
4. Osmunda cinnamomeum	15		FACW	be present, unless disturbed or problematic.
5. Viola cucullata	15		FACW	Definitions of Four Vegetation Strata:
· · ·			IAOVV	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 Cov		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		· <u></u>		
2.				
3.				
4				
5				Hydrophytic
5	^	Tatal Cau		Vegetation Present? Yes ✓ No
50% of total cover: 0		= Total Cov total cover:	_	
		total cover.		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

SOIL Sampling Point: W-H66

Profile Desc	cription: (Describe to	the dep	th needed to docun	nent the	indicator	or confirm	the abse	ence of indicators.)
Depth	Matrix			k Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	re Remarks
0-20	10YR 4/1	90	7.5YR 3/3	5	С	M/PL	LS	<u> </u>
			2.5Y 6/1	2	D	M		
								
					<u> </u>			
			-	-	<u> </u>			
								<u> </u>
					<u>C</u>			
¹ Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						lr	ndicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye				_	Piedmont 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	F6)		_	Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	e (F7)		_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	/Jucky Mineral (S1) (Li	RR N,	Iron-Mangane		ses (F12) (LRR N,		
	A 147, 148)		MLRA 136					-
	Sleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	l Matrix (S6)		Red Parent M	1aterial (F	-21) (MLR	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric	Soil Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H66



Photograph Direction West

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/25/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/County: Webs	ter	Sampling Date: 05/03/2015			
Applicant/Owner: MVP			Sampling Point: W-H66-UP			
Investigator(s): A. Grech, S.Kelly, M. Whitte	Section, Township, F	<u> </u>				
Landform (hillslope, terrace, etc.): Valley botton		-	Slope (%): 0-3			
Subregion (LRR or MLRA): LRRN			Datum: NAD 83			
Soil Map Unit Name: Craigsville gravelly loar						
Are climatic / hydrologic conditions on the site typic						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach site		needed, explain any answe				
		iocations, transcott	s, important reatures, etc.			
	No Is the Sample					
	No within a Wetl	and? Yes	No			
Wetland Hydrology Present? Yes Remarks:	No					
Upland, forest						
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	Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Living Ro	ots (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					
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)			eomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)			 Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Aquatic Fauna (B13)		FAC-Neutra	T Test (D5)			
Field Observations:	Depth (inches):					
	Depth (inches):					
		Vetlend Hudnelenu Drees				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Vetland Hydrology Prese	nt? Yes No			
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous inspectio	ns), if available:				
Domostro						
Remarks:						

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

Sampling Point: W-H66-UP

Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species
1. Betula alleghaniensis	25		FAC	That Are OBL, FACW, or FAC:3 (A)
2. Quercus marilandica	25		FACU_	Total Number of Dominant
3. Quercus alba	20		FACU_	Species Across All Strata: 7 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 43% (A/B)
6				That Ale OBE, I AOW, OF I AC.
7				Prevalence Index worksheet:
·	70	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 35				OBL species x 1 =
4.51	20 /0 01	total cover.		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15) 1 Betula lenta	10	~	FACIL	FAC species x 3 =
			FACU_	
2. Quercus alba	10		F <u>ACU</u>	FACU species x 4 =
3. Carpinus caroliniana	10		FAC	UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravalance Index D/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	00			3 - Prevalence Index is ≤3.0 ¹
4-		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:15	20% of	total cover:	6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation¹ (Explain)
1. Lycopodium clavatum	30		F <u>AC</u>	Problematic Hydrophytic Vegetation (Explain)
2				
3				¹ Indicators of hydric soil and wetland hydrology must
4				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				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	<u></u>	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:		
Woody Vine Stratum (Plot size: 15')		1010. 0010		Woody vine – All woody vines greater than 3.28 ft in
				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.)			1
(,			

Sampling Point: W-H66-UP

Depth	Matrix Color (moist)	%		x Features	Type ¹	_Loc²	Texture		Domo	·kc	
inches) 0-4	Color (moist)		Color (moist)	<u>%</u> 2			<u>l exture</u> L		Remar	KS	
	10YR 3/3	98	7.5YR 5/4		<u>C</u>	<u>M</u>					
4-20	10YR 5/6	100					SL				
		· ——									
		· ——									
	-										
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand G	rains.	² Location: PL				3
	ndicators:								roblematio	-	oils":
Histosol	• •		Dark Surface	. ,					A10) (MLR		
	pipedon (A2)		Polyvalue Be		. , .		• —		Redox (A	.16)	
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 148)		(MLRA 14	1 7, 148) Dodplain S	oilo (E10)	
	l Layers (A5)		Depleted Ma	,	F2)			(MLRA 13		olis (F 19)	
	ick (A10) (LRR N)		Redox Dark		·6)				v Dark Surf	face (TF12	')
	Below Dark Surface	e (A11)	Depleted Dar	•	,				in in Rema		• /
	ark Surface (A12)	, ,	Redox Depre					` .		,	
Sandy M	lucky Mineral (S1) (L	_RR N,	Iron-Mangan	ese Masse	es (F12)	(LRR N,					
	A 147, 148)		MLRA 13	•							
-	lleyed Matrix (S4)		Umbric Surfa						ydrophytic	-	
-	edox (S5)		Piedmont Flo					-	logy must		t,
	Matrix (S6)		Red Parent N	/laterial (F	21) (ML F	RA 127, 147	7) unle	ess disturb	ed or prob	lematic.	
	_ayer (if observed):										
Type:											.,
Depth (inc	ches):						Hydric Soil	Present?	Yes	No	<u> </u>
marks:											

Project/Site: MVP			City/C	county: Webster		Sampling Date: 05/02/2015		
Applicant/Owner: MVP			,	•		Sampling Point: W-H64-PEM		
	S. Kelly, M. V	Vhitten	Section	Section, Township, Range: N/A				
Landform (hillslope, terrace, e				· · · · · ·		Slope (%): 0-3		
Subregion (LRR or MLRA): <u>L</u>	RRN	Lat	38.548261	Long: -80		Datum: NAD83		
Soil Map Unit Name: Craigs						cation: None		
Are climatic / hydrologic condi								
· -			-			present? Yes No		
Are Vegetation, Soil _	-		-			·		
Are Vegetation, Soil _	-				explain any answe			
SUMMARY OF FINDIN	GS – Attacl	n site n	nap showing san	npling point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Pres	ent? Y	es 🖊	No	Is the Sampled Area				
Hydric Soil Present?	Y	es	No	within a Wetland?	Yes 🗸	No		
Wetland Hydrology Present?	Υ .	es <u>/</u>	No	William a Wolland	.00			
	n represents the hydric soils was g. The wetland	data col confirme was clea	lected in 2015. The we d using the USACE El red of woody vegetation	MP Regional Supplemen on within LOD as part of F	t delineation meth Project construction	oce of wetland hydrology, odology. A portion of the wetland on in 2018. Vegetation listed on		
HYDROLOGY								
Wetland Hydrology Indicat	ors:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum	ı of one is requi	red; chec	k all that apply)		Surface Soil			
Surface Water (A1)			True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)			or (C1)	Drainage Pa				
Saturation (A3)		<u> </u>		-	Moss Trim L			
Water Marks (B1)			Presence of Reduced	, ,	Dry-Season Water Table (C2)			
Sediment Deposits (B2)			Recent Iron Reduction		✓ Crayfish Burrows (C8)			
Drift Deposits (B3)			Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		-	Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5) Inundation Visible on Ae	arial Imagery (R	7)				Shallow Aquitard (D3)		
Water-Stained Leaves (,,			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)	55)				FAC-Neutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes 🗸	No	Depth (inches): 0	.25				
Water Table Present?			Depth (inches):	0				
Saturation Present?			Depth (inches):	0 Wetland h	Hydrology Presei	nt? Yes ✔ No		
(includes capillary fringe)								
Describe Recorded Data (str	eam gauge, mo	onitoring	well, aerial photos, pre	evious inspections), if ava	ailable:			
Remarks:								

Sampling Point: W-H64-PEM	M
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30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Persont of Dominant Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)
6				
7				Prevalence Index worksheet:
_		= Total Cov		
50% of total cover: 0	20% of	total cover	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	40	_		FACW species x 2 =
1. Salix sericea	10		OBL	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
		= Total Cov	er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 5	20% of	total cover	2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')		_		Problematic Hydrophytic Vegetation¹ (Explain)
1. Carex crinita	75		OBL	Problematic Hydrophytic Vegetation (Explain)
2. Scirpus cyperinus	15		OBL	Indicators of hydric cail and watland hydrology, must
3. Solidago rugosa	15		F <u>AC</u>	¹ Indicators of hydric soil and wetland hydrology must 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 more in diameter at breast height (DBH), regardless of
7				height.
8				Carling (Charles Westernlands and additional to a second of the second o
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
	105	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>52.5</u>	20% of	total cover	21	Was devices Allowed by the same than 2 00 ft in
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
	0	= Total Cov	er	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.)			

SOIL Sampling Point: W-H64-PEM

Profile Desc	cription: (Describe t	o the dept	n needed to docur	nent the i	ndicator	or confirm	the abse	ence of indicators.)
Depth	Matrix		Redo	x Feature	<u>s</u>			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	eRemarks
0-20	10YR 4/1	90	7.5YR 4/6	5	С	M/PL	SL	
			-		-			
			_					
			_					
			_					
								<u> </u>
			_					
¹ Type: C=C	oncentration, D=Deple	etion. RM=	Reduced Matrix. MS	S=Masked	Sand Gr	ains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil			,,				lı	ndicators 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)
	istic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,		_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	. ,	- 6)		_	Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Da				_	Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric	Soil Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H64-PEM



Photograph Direction West

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/25/19

Project/Site: MVP			City/County: W	ebster		Sampling Date: 05/02/2015			
						Sampling Point: W-H64-PS			
	3. Kelly, M. Wh	itten	Section, Towns	Section, Township, Range: N/A					
- : :					Slope (%): 0-3				
Subregion (LRR or MLRA): L									
Soil Map Unit Name: Craigs				_					
Are climatic / hydrologic condi			_						
Are Vegetation, Soil	-					present? Yes No			
Are Vegetation, Soil									
_					explain any answ ons. transects	s, important features, etc.			
Hydrophytic Vegetation Pres Hydric Soil Present?		No		ampled Area	./				
Wetland Hydrology Present?		<u>✓</u> No	within a	Wetland?	Yes	No			
Remarks: Cowardin Code: PSS : HGM:									
,	,		hydrology, hydrop	hytic vegetation	n, and hydric soil	s was unable to be confirmed			
because of recent restoration				-					
2018. Vegetation listed on thi	s form represents	the vegetative comm	nunity present in th	e wetland prior	r to the start of co	onstruction.			
HYDROLOGY									
Wetland Hydrology Indicat	ors:				Secondary Indic	ators (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 (B14)		Sparsely Ve	egetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Su			Drainage Pa	atterns (B10)			
Saturation (A3)		Oxidized Rhi	zospheres on Livir	ng Roots (C3)	Moss Trim I	_ines (B16)			
Water Marks (B1)		Presence of	Reduced Iron (C4)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron F	Reduction in Tilled	Soils (C6)	Crayfish Bu	rrows (C8)			
Drift Deposits (B3)		Thin Muck St			Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explai	in in Remarks)			Stressed Plants (D1)			
Iron Deposits (B5)					Geomorphic Position (D2)				
Inundation Visible on Ae					Shallow Aqu				
Water-Stained Leaves (B9)					graphic Relief (D4)			
Aquatic Fauna (B13)					FAC-Neutra	ii Test (D5)			
Field Observations: Surface Water Present?	Voc. V No	Depth (inche	_{es)} . 0.25						
Water Table Present?		Depth (inche							
		Depth (inche		Wetlend U	ludralasu Draca	mt2 Voc V No			
Saturation Present? (includes capillary fringe)	Yes No	Depth (Inche	es):	wetiand H	lydrology Prese	nt? Yes V No			
Describe Recorded Data (str	eam gauge, moni	toring well, aerial pho	otos, previous insp	ections), if ava	ilable:				
Remarks:									
1									

VEGETATION (Four Strata) - Use scientific names of plant

GETATION (Four Strata) – Use scientific n		-		, -	Point: W-H64-	1 00
ee Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test workshee		
				Number of Dominant Specie That Are OBL, FACW, or FA		_ (A)
				Total Number of Dominant Species Across All Strata:	2	_ (B)
				Percent of Dominant Species That Are OBL, FACW, or FA		_ (A/B
				Prevalence Index workshe	et·	
				Total % Cover of:		
		= Total Cov	_		x 1 =	
50% of total cover: 0	20% of	total cover:				
pling/Shrub Stratum (Plot size: 15')	00			FACW species		
Salix sericea	60		OBL		x 3 =	
				FACU species		
				· · · · · · · · · · · · · · · · · · ·	x 5 =	
				Column Totals:	_ (A)	(B)
		-		Prevalence Index = B/	'A =	
		-		Hydrophytic Vegetation Inc	dicators:	
	-			1 - Rapid Test for Hydro	phytic Vegetation	
				✓ 2 - Dominance Test is >	50%	
				3 - Prevalence Index is	≤3.0 ¹	
		= Total Cov		4 - Morphological Adapt	ations¹ (Provide su	upportin
50% of total cover:30	20% of	total cover:	12	data in Remarks or o		
erb Stratum (Plot size: 5')		á		Problematic Hydrophytic		,
Scirpus cyperinus	60		OBL	1 Tobiomatio Tryarophytic	y vegetation (Exp	iaii)
				¹ Indicators of hydric soil and	wotland bydrology	, munt
				be present, unless disturbed		/ IIIuSt
				Definitions of Four Vegetat	•	
				Dominiono or rodi rogotal		
				Tree – Woody plants, exclud		
				more in diameter at breast he height.	eight (DBH), regar	dless o
				Sapling/Shrub – Woody pla	nte evaludina vina	oc locc
				than 3 in. DBH and greater th		
L				m) tall.	•	`
				Herb – All herbaceous (non-	woody) planta roa	ardloss
	60	= Total Cov	er	of size, and woody plants les		jai ui e 55
50% of total cover:30		total cover:				00.61
oody Vine Stratum (Plot size: 15')			_	Woody vine – All woody vinheight.	es greater than 3.2	28 ft in
,,						
				Hydrophytic		
				Vegetation Present? Yes	No	
		= Total Cov		163_0		•
50% of total cover: 0	0001	total cover:	0			

Sampling Point: W-H64-PSS

SOIL

Golor (moist) % Color (moist) % Type Loc* Texture Remarks O-20 10YR 4/1 90 7.5YR 4/6 10 C M/PL SL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Typeidic Soil Indicators: Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Histosol (A3) Thin Dark Surface (S8) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Piedmont Floodplain Soil Stratified Layers (A5) Popleted Matrix (F3) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) MLRA 147, 148) MLRA 136, 1422 Sandy Mucky Mineral (S1) (LRR N) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soil Soil (Piedmont Floodplain Soil Soil Mucky Mineral (S1) (LRR N) MLRA 147, 148) MLRA 136, 1422 Type: Depleted Dark Surface (F12) (MLRA 148, 147, 149) Depleted Dark Surface (F12) (MLRA 147, 149) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M14) Piedmont Floodplain Soil (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M17) Piedmont Floodplain Soil (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 147, 149) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (M	_
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, M=Matri Indicators for Problematic I Indicators	is
ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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 (S6) Piedmont Floodplain Soil MLRA 136, 147) Wery Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Welland 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Breschier CF7 Breschier CF7 Almicators for Problematic F2 Coast Prairie Redox (A16 (MLRA 147, 148) Piedmont Floodplain Soil Amaganese Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes	
Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped (Matrix (S6) Stripped (Matrix (S6) Stripped (Matrix (S6)) Depleted Surface (F2) Depth (inches): Dark Surface (S7) Depleted (S8) (MLRA 147, 148) (MLRA 147, 148) Depleted (S9) (MLRA 147, 148) (MLRA 147, 148) Depleted Matrix (F2) Piedmont Floodplain Soil (MLRA 147, 148) Pedemont Floodplain Soils (F12) (LRR N, MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches): Depth (inches): Depth (inches): Dark Surface (S7) Depk Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16 (MLRA 147, 148) (MLRA 147, 148) Other (Explain in Remark 147, 148) Peledmont Floodplain Soil (MLRA 147, 148) NLRA 136, 122) Sindicators of hydrophytic we wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches): Depth (inches): Depth (inches): Dark Surface (S7) Depk Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16 (MLRA 147, 148) (MLRA 147, 148) Other (Explain in Remark 147, 148) Peledmont Floodplain Soil (MLRA 147, 148) NLRA 136, 122) Sindicators of hydrophytic we wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Loamy Gleyed Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Depleted Matrix (F2) Piedmont Floodplain Soil (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Loamy Gleyed Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Depleted Matrix (F2) Piedmont Floodplain Soil (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Pepleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Pepleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches): Depth (inches): Depth (inches): Dark Surface (S7) Depk Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16 (MLRA 147, 148) (MLRA 147, 148) Other (Explain in Remark 147, 148) Peledmont Floodplain Soil (MLRA 147, 148) NLRA 136, 122) Sindicators of hydrophytic we wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Pepleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
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Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA Histic Epipedon (A2) _ Black Histic (A3) _ Thin Dark Surface (S9) (MLRA 147, 148) _ Coast Prairie Redox (A16 (MLRA 147, 148) _ Hydrogen Sulfide (A4) _ Stratified Layers (A5) _ Depleted Matrix (F2) _ Piedmont Floodplain Soil (MLRA 136, 147) _ Very Shallow Dark Surface (A10) _ Depleted Below Dark Surface (A11) _ Depleted Dark Surface (F6) _ Very Shallow Dark Surface (A12) _ Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Piedmont Floodplain Soils (F19) (MLRA 148) _ Ntripped Matrix (S6) _ Piedmont Floodplain Soils (F19) (MLRA 147) _ Unless disturbed or problem strictive Layer (if observed): Depth (inches): Hydric Soil Present? Yes _ ✓	IX.
	6)
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 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ St	ilo (E10)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remark Depleted Dark Surface (F7)	IIS (F 19)
	ace (TF12)
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	110)
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Red Parent Material (F21) (MLRA 127, 147) Type: _ Depth (inches): _ Hydric Soil Present? Yes	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be Red Parent Material (F21) (MLRA 127, 147) unless disturbed or proble strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	egetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or proble Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	-
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Type:	
Depth (inches): Hydric Soil Present? Yes	
	No

Wetland Photograph Page

Wetland ID W-H64-PSS



Photograph Direction North

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/25/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/0	County: Webster		Sampling Date: 05/02/2015
Applicant/Owner: MVP			,			Sampling Point: W-H64-PSS
Investigator(s): A. Grech, S	S. Kelly, M.					
Landform (hillslope, terrace, e						Slope (%): 0-3
Subregion (LRR or MLRA): L				•		Datum: NAD83
Soil Map Unit Name: Craigs				_		
Are climatic / hydrologic condi						
Are Vegetation, Soil _						present? Yes No
Are Vegetation, Soil _						
		-		•	explain any answe	, important features, etc.
			, No		<u> </u>	
Hydrophytic Vegetation Pres Hydric Soil Present?			No	Is the Sampled Area		
Wetland Hydrology Present?		Yes V	No	within a Wetland?	Yes	No
woody vegetation within LOD wetland prior to the start of co	n represents the hydric soils was as part of Pro	ne data c is unable	ollected in 2015. The w to be confirmed because	se of recent restoration ac	ctivities within the l	esence of wetland hydrology, LOD. The wetland was cleared of etative community present in the
HYDROLOGY					0 1 1 1	
Wetland Hydrology Indicat		. Consult on the	and all that and A			ators (minimum of two required)
Primary Indicators (minimum	of one is req	uired; ch		(D4.4)	Surface Soil	
Surface Water (A1) High Water Table (A2)		_	True Aquatic PlantsHydrogen Sulfide Od		Sparsely veg	getated Concave Surface (B8)
Saturation (A3)		-		res on Living Roots (C3)		
Water Marks (B1)			Presence of Reduce	-		Water Table (C2)
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bur	
Drift Deposits (B3)		_	_ Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	_ Other (Explain in Re	marks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)					Geomorphic	
Inundation Visible on Ae		B7)			Shallow Aqu	
Water-Stained Leaves (В9)				Microtopogra ✓ FAC-Neutral	aphic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)
Field Observations: Surface Water Present?	V00 /	No	Depth (inches):().25		
Water Table Present?			Depth (inches):	0		
Saturation Present?			Depth (inches):		lydrology Preser	nt? Yes 🗸 No
(includes capillary fringe)	165	_ 110	Deptil (iliches)		Tydrology Fresei	it: les No
Describe Recorded Data (st	eam gauge, r	monitorin	g well, aerial photos, pr	evious inspections), if ava	ilable:	
Remarks:						
Remarks.						

VEGETATION (Four Strata) - Use scientific names of plant

GETATION (Four Strata) – Use scientific n		-		, -	Point: W-H64-	1 00
ee Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test workshee		
				Number of Dominant Specie That Are OBL, FACW, or FA		_ (A)
				Total Number of Dominant Species Across All Strata:	2	_ (B)
				Percent of Dominant Species That Are OBL, FACW, or FA		_ (A/B
				Prevalence Index workshe	et·	
				Total % Cover of:		
		= Total Cov	_		x 1 =	
50% of total cover: 0	20% of	total cover:				
pling/Shrub Stratum (Plot size: 15')	00			FACW species		
Salix sericea	60		OBL		x 3 =	
				FACU species		
				· · · · · · · · · · · · · · · · · · ·	x 5 =	
				Column Totals:	_ (A)	(B)
		-		Prevalence Index = B/	'A =	
		-		Hydrophytic Vegetation Inc	dicators:	
	-			1 - Rapid Test for Hydro	phytic Vegetation	
				✓ 2 - Dominance Test is >	50%	
				3 - Prevalence Index is	≤3.0 ¹	
		= Total Cov		4 - Morphological Adapt	ations¹ (Provide su	upportin
50% of total cover:30	20% of	total cover:	12	data in Remarks or o		
erb Stratum (Plot size: 5')		á		Problematic Hydrophytic		,
Scirpus cyperinus	60		OBL	1 Toblematic Tryarephytic	y vegetation (Exp	iaii)
				¹ Indicators of hydric soil and	wotland bydrology	, munt
				be present, unless disturbed		/ IIIuSt
				Definitions of Four Vegetat	•	
				Dominiono or rodi rogotal		
				Tree – Woody plants, exclud		
				more in diameter at breast he height.	eight (DBH), regar	dless o
				Sapling/Shrub – Woody pla	nte evaludina vina	oc locc
				than 3 in. DBH and greater th		
L				m) tall.	•	`
				Herb – All herbaceous (non-	woody) planta roa	ardloss
	60	= Total Cov	er	of size, and woody plants les		jai ui e 55
50% of total cover:30		total cover:				00.61
oody Vine Stratum (Plot size: 15')			_	Woody vine – All woody vinheight.	es greater than 3.2	28 ft in
,,				orgina		
				Hydrophytic		
				Vegetation Present? Yes	No	
		= Total Cov		163_0		•
50% of total cover: 0	0001	total cover:	0			

Sampling Point: W-H64-PSS

SOIL

Golor (moist) % Color (moist) % Type Loc* Texture Remarks O-20 10YR 4/1 90 7.5YR 4/6 10 C M/PL SL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Typeidic Soil Indicators: Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Histosol (A3) Thin Dark Surface (S8) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Piedmont Floodplain Soil Stratified Layers (A5) Popleted Matrix (F3) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) MLRA 147, 148) MLRA 136, 1422 Sandy Mucky Mineral (S1) (LRR N) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soil Soil (Piedmont Floodplain Soil Soil Mucky Mineral (S1) (LRR N) MLRA 147, 148) MLRA 136, 1422 Type: Depleted Dark Surface (F12) (MLRA 148, 147, 149) Depleted Dark Surface (F12) (MLRA 147, 149) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M14) Piedmont Floodplain Soil (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M17) Piedmont Floodplain Soil (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Umbric Surface (F12) (MLRA 136, 1422) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 147, 149) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (MLRA 148) Very Shallow Dark Surface (M17) Piedmont Floodplain Soils (F19) (M	_
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, M=Matri Indicators for Problematic I Indicators	is
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ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Pepleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Pork Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Pepleted 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Pepleted Matrix (F3) (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Loamy Gleyed Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Depleted Matrix (F2) Piedmont Floodplain Soil (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): Depth (inches): Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Loamy Gleyed Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Depleted Matrix (F2) Piedmont Floodplain Soil (MLRA 136, 147) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be unless disturbed or proble estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA Histic Epipedon (A2) _ Black Histic (A3) _ Thin Dark Surface (S9) (MLRA 147, 148) _ Coast Prairie Redox (A16 (MLRA 147, 148) _ Hydrogen Sulfide (A4) _ Stratified Layers (A5) _ Depleted Matrix (F2) _ Piedmont Floodplain Soil (MLRA 136, 147) _ Very Shallow Dark Surface (A10) _ Depleted Below Dark Surface (A11) _ Depleted Dark Surface (F6) _ Very Shallow Dark Surface (A12) _ Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Piedmont Floodplain Soils (F19) (MLRA 148) _ Ntripped Matrix (S6) _ Piedmont Floodplain Soils (F19) (MLRA 147) _ Unless disturbed or problem strictive Layer (if observed): Depth (inches): Hydric Soil Present? Yes _ ✓	IX.
	6)
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 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ St	ilo (E10)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remark Depleted Dark Surface (F7)	IIS (F 19)
	ace (TF12)
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	110)
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Red Parent Material (F21) (MLRA 127, 147) Type: _ Depth (inches): _ Hydric Soil Present? Yes	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be Red Parent Material (F21) (MLRA 127, 147) unless disturbed or proble strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	egetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or proble Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	-
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	
Type:	
Depth (inches): Hydric Soil Present? Yes	
	No

Wetland Photograph Page

Wetland ID W-H64-PSS



Photograph Direction North

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/25/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/0	County: Webster		Sampling Date: 05/02/2015		
Applicant/Owner: MVP					Sampling Point: W-H64-UP		
Investigator(s): A. Grech, S.Kelly, M.	Whitten	Secti					
Landform (hillslope, terrace, etc.): Valley			· · · · · ·		Slope (%): 0-3		
Subregion (LRR or MLRA): LRRN					Datum: NAD 83		
Soil Map Unit Name: Craigsville grave							
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or Hyd		-					
Are Vegetation, Soil, or Hyd							
SUMMARY OF FINDINGS – Atta				explain any answe			
		· · · ·			, important routaros, otor		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		•		
	Yes		within a Wetland?	Yes	No		
Remarks:	165	100					
HYDROLOGY							
Wetland Hydrology Indicators:				<u> </u>	tors (minimum of two required)		
Primary Indicators (minimum of one is rec				Surface Soil			
Surface Water (A1)		True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)			
Saturation (A3)		Presence of Reduce	res on Living Roots (C3)	Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1) Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Buri			
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)		O (27)		Geomorphic			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqui			
Water-Stained Leaves (B9)	, ,			Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	_ No	Depth (inches):	Wetland H	lydrology Presen	t? Yes No		
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							
Remarks.							

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

30'

Sapling/Shrub Stratum (Plot size: 15')

2. Acchilea milifolium 3. Trifolium repens

4. Anthoxanthum odoratum

Woody Vine Stratum (Plot size: 15')

Tree Stratum (Plot size: __

Herb Stratum (Plot size: ___ 1. Holcus lanatus

___)

50% of total cover: ___0

50% of total cover: 60 20% of total cover: 24

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

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

nes of p	lants.		Sampl	ing Point:	W-H64-	UP
		Indicator	Dominance Test works	sheet:		
6 Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, o		1	_ (A)
			Total Number of Domina Species Across All Strat		3	_ (B)
			Percent of Dominant Sports That Are OBL, FACW, o		33	_ (A/B
		-	Prevalence Index work	sheet:		
0 =	Total Cov	/er	Total % Cover of:	M	ultiply by:	
20% of to	otal 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	n Indicators	s:	
			1 - Rapid Test for H	ydrophytic V	egetation	
			2 - Dominance Test			
			3 - Prevalence Inde	x is ≤3.0 ¹		
	Total Cov	_	4 - Morphological A	daptations ¹ (Provide su	upportin
20% of to	otal cover	:0	data in Remarks			
50	~	FAC	Problematic Hydrop			
30	~	FACU				
30	~	F <u>ACU</u>	¹ Indicators of hydric soil be present, unless distu	and wetland	l hydrology lematic.	/ must
10		F <u>ACU</u>	Definitions of Four Veg			
			Tree – Woody plants, ex more in diameter at brea height.			
			Sapling/Shrub – Woody than 3 in. DBH and grea m) tall.			
	Total Cov	0.4	Herb – All herbaceous (of size, and woody plant			gardless
20% of to	otal cover		Woody vine – All woody height.	vines great	ter than 3.2	28 ft in
	Total Cov	^	Hydrophytic Vegetation Present? Yes	:N	lo <u> </u>	
20% of to	otal cover	:0				

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

Sampling Point: W-H64-UP

SOIL

Depth	Matrix	<u></u> %		x Feature		Loc ²	Ta		D		
(inches) 0-9	Color (moist) 10YR 4/3	98	Color (moist) 7.5YR 4/6	<u>%</u> 2	Type ¹	M	<u>Texture</u> L	-	Remark	KS	
			7.510 4/0		<u></u>	IVI					
9-20	10YR 4/6	100					SL				
					-						
					-						
	-				-						
								-			
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Masked	d Sand G	rains.	² Location: P	L=Pore Lin	ing, M=Matr	rix.	
dric Soil	Indicators:						Indic	ators for P	roblematic	Hydric S	oils³:
_ Histosol			Dark Surface						(A10) (MLR		
	oipedon (A2)		Polyvalue Be				148) (e Redox (A1	16)	
	stic (A3)		Thin Dark Su			147, 148)		(MLRA 14			
	en Sulfide (A4)		Loamy Gleye		F2)		F		oodplain So	oils (F19)	
	d Layers (A5)		Depleted Mat		-c)		,	(MLRA 1	36, 147) w Dark Surfa	(TE40	.\
	ick (A10) (LRR N) d Below Dark Surfac	·Δ (Δ11)	Redox Dark S Depleted Dar	•				•	ain in Remai	•	.)
	ark Surface (A12)	C (ATT)	Redox Depre		. ,		_ `	Julei (Expir	IIII III IXEIIIAI	iko)	
	lucky Mineral (S1) (LRR N.	Iron-Mangane			(LRR N.					
	\ 147, 148)	,	MLRA 130		00 ()	(=,					
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 1	36, 122)	³ Inc	dicators of h	ydrophytic v	vegetation	and
	Redox (S5)		Piedmont Flo						ology must b	-	
_ Stripped	Matrix (S6)		Red Parent M	faterial (F	21) (ML	RA 127, 147	7) ur	less disturb	ed or proble	ematic.	
estrictive l	Layer (if observed)	:									
Type:											
Depth (in	ches):						Hydric Soi	I Present?	Yes	No	~
emarks:							1				

Project/Site: MVP	City/Co	_{unty:} Webster		Sampling Date: 05/01/2015					
Applicant/Owner: MVP State: WV Sampling Point: W									
Investigator(s): A. Grech, S. Kelly, M. Whitten				_ ,					
Landform (hillslope, terrace, etc.): Summit				Slope (%): 1-15					
Subregion (LRR or MLRA): LRRN Lat: 38.54577 Long: -80.543006 Datum: N									
Soil Map Unit Name: Pineville-Gilpin-Guyandotte association, very steep, extremely stony NWI classification: None									
Are climatic / hydrologic conditions on the site typical for	r this time of year? Ye	s No (If	no, explain in R	emarks.)					
Are Vegetation, Soil, or Hydrology	significantly disturbe	ed? Are "Normal Ci	ircumstances" p	present? Yes V No					
Are Vegetation, Soil, or Hydrology									
SUMMARY OF FINDINGS – Attach site m			-						
Hydrophytic Vegetation Present? Yes	No								
Hydric Soil Present? Yes	No	Is the Sampled Area	Yes 🗸						
Wetland Hydrology Present?	No No	within a Wetland?	Yes	No					
Remarks:									
Cowardin Code: PEM; HGM: Slope; WT: RI	PWWD								
Information listed on this form represents th	e data collected in	2015. The wetland v	vas revisited	on 11/25/2019. Presence					
of wetland hydrology, hydrophytic vegetatio	n, and hydric soils	was confirmed using	the USACE	EMP Regional					
Supplement delineation methodology.									
HYDROLOGY									
Wetland Hydrology Indicators:		Se	econdary Indica	ators (minimum of two required)					
Primary Indicators (minimum of one is required; check	all that apply)		Surface Soil	·					
	True Aquatic Plants (B			getated Concave Surface (B8)					
1 4	Hydrogen Sulfide Odor		_ Drainage Pa						
1 4 -	Oxidized Rhizospheres								
	Presence of Reduced	- · · · · · · · · · · · · · · · · · · ·		Water Table (C2)					
	Recent Iron Reduction		_ Crayfish Bur						
	Thin Muck Surface (C7		-	isible on Aerial Imagery (C9)					
	Other (Explain in Rema			tressed Plants (D1)					
Iron Deposits (B5)			_ Geomorphic	Position (D2)					
Inundation Visible on Aerial Imagery (B7)		<u> </u>	_ Shallow Aqu	itard (D3)					
Water-Stained Leaves (B9)		_	Microtopographic Relief (D4)						
Aquatic Fauna (B13)		<u>v</u>	FAC-Neutral	Test (D5)					
Field Observations:									
Surface Water Present? Yes No									
Water Table Present? Yes No	Depth (inches):)							
Saturation Present? Yes No	Depth (inches):	Wetland Hyd	drology Preser	nt? Yes <u>/</u> No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vall parial photos provi	ious inspections), if availal	hlo:						
Describe Recorded Data (Stream gauge, monitoring w	reii, aeriai priotos, previ	ious irispections), ii avaliai	DIE.						
Remarks:									
Tadpoles present.									

/EGETATION (Four Strata) – Use scie	entific names of	plants.		Sampling Point: W-H56
Tree Stratum (Plot size:30')	Absolute	Dominant I		Dominance Test worksheet:
		Species?	Status	Number of Dominant Species That Are OBL FACW or FAC: 2 (A)
1				That Are OBL, FACW, or FAC: (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: 100 (A/B)
6 7.				Prevalence Index worksheet:
7.		= Total Cove		Total % Cover of: Multiply by:
50% of total cov	er: 0 20% of			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				Provalence Index = P/A =
6				Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
9				2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
		= Total Cove		4 - Morphological Adaptations¹ (Provide supporting
	er: <u>0</u> 20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')		_		Problematic Hydrophytic Vegetation¹ (Explain)
1. Juncus effusus	40		ACW	1 Toblematic Hydrophytic Vegetation (Explain)
2. Scirpus atrovirens	30	(<u>DBL</u>	¹ Indicators of hydric soil and wetland hydrology must
3. Typha angustifolia	5	(<u>DBL</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		-		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	75			Herb – All herbaceous (non-woody) plants, regardless
50% of total cov	er: <u>37.5</u> 20% of	= Total Cove		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15'	er. <u>07:0</u> 20% or	total cover		Woody vine – All woody vines greater than 3.28 ft in
	_'			height.
1 2				
3		<u> </u>		
4				
5.				Hydrophytic Vegetation
<u> </u>		= Total Cove		Present? Yes V No No
50% of total cov		total cover:_	^	
Remarks: (Include photo numbers here or on a s	separate sheet.)	_		1
·	,			

SOIL Sampling Point: W-H56

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	ce of indicators.)
Depth	Matrix		Redo	x Features	3			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	<u>Remarks</u>
0-7"	10YR 5/2	98	10YR 5/6	2	С	М	SC	
7-16"	7.5YR 5/6	100					SC	
								
								
						· ——		
					-			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indi	cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	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) (LRR N,		
	A 147, 148)		MLRA 13	•			2	
	lleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7) ι	unless disturbed or problematic.
	ayer (if observed):							
	parse Fragments		<u></u>					
Depth (ind	ches): <u>16</u>						Hydric So	oil Present? Yes 🗸 No
Remarks:							I	

Wetland Photograph Page

Wetland ID W-H56



Photograph Direction South

Date: 05/01/2015

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 11/25/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	ounty: Webster		Sampling Date: 05/01/2015			
Applicant/Owner: MVP					Sampling Point: W-H56-UP			
Investigator(s): A. Grech, S	S.Kelly, M. Whitte	en Section	on, Township, Range: NA	<u> </u>	_			
• ,,					Slone (%)· 10-15			
	andform (hillslope, terrace, etc.): summit Local relief (concave, convex, none): concave Lat: 38.545780 Long: -80.543073							
Soil Map Unit Name: Pineville								
Are climatic / hydrologic condit					_			
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	explain any answe	rs in Remarks.)			
SUMMARY OF FINDIN	GS – Attach sit	e map showing san	pling point location	ns, transects	, important features, etc.			
Hydrophytic Vegetation Pres	ent? Yes	No_ 🗸						
Hydric Soil Present?		No	Is the Sampled Area	V	V			
Wetland Hydrology Present?	Yes _	No	within a Wetland?	Yes	No -			
Remarks:								
Upland, forest in logging	g area.							
-								
HYDROLOGY								
Wetland Hydrology Indicate	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 (B14)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa	tterns (B10)			
Saturation (A3)		Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	ines (B16)			
Water Marks (B1)		Presence of Reduced	l 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 (0			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		tressed Plants (D1)			
Iron Deposits (B5)					Position (D2)			
Inundation Visible on Ae				Shallow Aqui				
Water-Stained Leaves (E	39)				aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	Van Na	V Donath (inch oc)						
Surface Water Present?	Yes No _	Depth (inches): Depth (inches):						
Water Table Present?		Depth (inches):		leedwala wee Dwa a aw	.42 Vaa Na V			
Saturation Present? (includes capillary fringe)	res No _	Depth (inches):	wetiand h	iyarology Presen	nt? Yes No			
Describe Recorded Data (str	eam gauge, monitor	ing well, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								

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

Sapling/Shrub Stratum (Plot size: 15')

2. Acer saccharum

Tree Stratum (Plot size: _

1 Acer saccharum

Herb Stratum (Plot size:

1. viola sororia

1. Acer saccharum

__)

5._____

Absolute Dominant Indicator

% Cover Species? Status

20 _ = Total Cover

15 = Total Cover

45 = Total Cover

0 = Total Cover

Hydrophytic Vegetation

Present?

✓ FACU

50% of total cover: 10 20% of total cover: 4

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

50% of total cover: 22.5 20% of total cover: 9

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

Sampling P	oint: W-H56-U	P			
Dominance Test worksheet:					
Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)			
Total Number of Dominant Species Across All Strata:	4	(B)			
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)			
Prevalence Index worksheet:					
Total % Cover of:	Multiply by:				
	x 1 =	_			
FACW species					
	x 3 =				
· ·	x 4 =	_			
	x 5 =				
Column Totals: (A)	_ (B)			
Prevalence Index = B/A :	=	_			
Hydrophytic Vegetation Indic	ators:				
1 - Rapid Test for Hydroph	ytic Vegetation				
2 - Dominance Test is >50					
3 - Prevalence Index is ≤3.					
4 - Morphological Adaptations ¹ (Provide supporting					
data in Remarks or on a separate sheet)					
Problematic Hydrophytic V	egetation ¹ (Explai	n)			
¹ Indicators of hydric soil and we be present, unless disturbed or		nust			
Definitions of Four Vegetatio	n Strata:				
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-wood size, and woody plants less		rdless			
Woody vine – All woody vines height.	greater than 3.28	ft in			

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

Woody Vine Stratum (Plot size: ____15' ____)

Yes ____ No ___

Sampling Point: W-H56-UP

SOIL

epth	Matrix		Redo	x Features	1 . 2	_			
nches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> <u>Ty</u>	pe ¹ Loc ²	Texture		Remarks	S
0-2	10 YR 4/3	100				CL			
2-15	10 YR 5/8	98	7.5YR 5/6	<u>2</u> <u>C</u>	<u>M</u>	CL	-		
		· 							
							-		
							-		
pe: C=Co	ncentration. D=Dep	letion. RM=	Reduced Matrix, MS	S=Masked San	d Grains.	² Location: F	L=Pore Lini	ng. M=Matri	x.
	ndicators:	,	,			Indic	ators for P	roblematic I	Hydric Soils
Histosol ((A1)		Dark Surface	(S7)		2	cm Muck (A10) (MLRA	147)
Histic Epi	ipedon (A2)		Polyvalue Be	low Surface (S	8) (MLRA 147	, 148) (Coast Prairie	Redox (A16	6)
Black His				rface (S9) (ML	RA 147, 148)		(MLRA 14		
	n Sulfide (A4)		Loamy Gleye			F		oodplain Soil	ls (F19)
	Layers (A5)		Depleted Mat			,	(MLRA 13		(TE 10)
	ck (A10) (LRR N)	o (A11)	Redox Dark S	Surface (F6) k Surface (F7)			•	v Dark Surfa in in Remark	, ,
	Below Dark Surfact rk Surface (A12)	# (ATT)	Redox Depre	, ,		_ '	лпет (Ехріа	iii iii Keillair	KS)
	ucky Mineral (S1) (L	.RR N.		ese Masses (F	12) (LRR N.				
	147, 148)	,	MLRA 13		, ,				
	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLR	A 136, 122)	³ Inc	dicators of h	ydrophytic v	egetation an
	edox (S5)				F19) (MLRA 1 4			logy must be	
	Matrix (S6)		Red Parent N	/laterial (F21) (MLRA 127, 14	7) ur	less disturb	ed or proble	matic.
	ayer (if observed):								
· -	arse Fragments		<u></u>						
Depth (inc	_{hes):} 15					Hydric Soi	I Present?	Yes	No
marks:									
marks:									
marks:									
marks:									
marks:									
marks:									
marks:									
marks:									
marks:									
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marks:									
marks:									
marks:									

Project/Site: MVP		City/C	_{ounty:} Webster		Sampling Date: <u>06/16/2015</u>
Applicant/Owner: MVP			<u> </u>	State: WV	Sampling Point: W-O13
Investigator(s): A. Rodrian S	3. Therkildson V. Pr				_
Landform (hillslope, terrace, etc	:.): Ditch	Local reli	ef (concave, convex, nor	_{ne):} Concave	Slope (%): 1
Subregion (LRR or MLRA): LF					Datum: NAD 83
Soil Map Unit Name: Pineville					
Are climatic / hydrologic condition	ons on the site typical fc	r this time of year? Ye	es ✓ No	—— (If no. explain in R	emarks.)
					resent? Yes <u>√</u> No
Are Vegetation, Soil				explain any answe	
_					, important features, etc.
		·	F3 F		,,
Hydrophytic Vegetation Prese	/	_ No	Is the Sampled Area	,	
Hydric Soil Present? Wetland Hydrology Present?	Yes <u>✓</u> Yes ✓	_ No No	within a Wetland?	Yes <u>✓</u>	No
Remarks:	163				
Cowardin Code: PEM H	GM: slone WT: RP	\/\/\/NI			
			2015. The wetland	l was revisited	on 10/8/2019. Presence
of wetland hydrology, hy					
Supplement delineation i		•		0	
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	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 (E	314)		getated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	
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 Buri	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (C	7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rem	narks)		tressed Plants (D1)
✓ Iron Deposits (B5)				•	Position (D2)
Inundation Visible on Aeri				Shallow Aqui	
✓ Water-Stained Leaves (B	9)				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:		5 (*)	0		
Surface Water Present?	Yes No		10		
Water Table Present?	Yes No	2 opt. (o., 100).			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland F	lydrology Presen	t? Yes <u>√</u> No
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, prev	vious inspections), if ava	ilable:	
Remarks:					
	Latria mina				
Artificial ditch on old coal	surp mine				

'EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Poir	it: <u>VV-013</u>	
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:		
1. Liriodendron tulipifera	5	<u>√</u>	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
2. Nyssa sylvatica	5	✓	FAC	Total Newsham of Dansin and		
3. Acer rubrum	5	✓	FAC	Total Number of Dominant Species Across All Strata:	5	(B)
4				'		(-)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	80	(A/B)
6				matric obe, mow, or me.		(7.7.0)
				Prevalence Index worksheet:		
	15	= Total Cov	er		Multiply by:	
50% of total cover:	20% of	f total cover	3	OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	=	_
1. Acer rubrum	10		F <u>AC</u>	FAC species x 3	=	_
2				FACU species x 4	=	_
3				UPL species x 5	=	_
4				Column Totals: (A)		_ (B)
5				December of Index D/A		
6				Prevalence Index = B/A = _		_
7				Hydrophytic Vegetation Indicate		
8				1 - Rapid Test for Hydrophytic	: Vegetation	
9				✓ 2 - Dominance Test is >50%		
	10	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹	1	
50% of total cover:5		f total cover	_	4 - Morphological Adaptations	-	
Herb Stratum (Plot size: 5')				data in Remarks or on a se	•	
1. Typha latifolia	100	✓	FACW	Problematic Hydrophytic Vego	etation' (Expla	in)
Panicum clandestinum	20		F <u>ACW</u>			
3. Scirpus cyperinus	20		FACW	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	nd hydrology r	nust
4. Solidago canadensis	10		F <u>AC</u>	1 .		
5. Onoclea sensibilis	10		FACW	Definitions of Four Vegetation S	ıtrata:	
6				Tree – Woody plants, excluding vi		
5				more in diameter at breast height height.	(DBH), regardi	less of
, <u> </u>				Height.		
9.				Sapling/Shrub – Woody plants, e		
10		-		than 3 in. DBH and greater than o m) tall.	r equal to 3.28	i IL (I
11.						
· · · · · · · · · · · · · · · · · · ·	160	= Total Cov		Herb – All herbaceous (non-wood of size, and woody plants less tha		rdless
50% of total cover: <u>80</u>		f total cover:	32			
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines green height.	eater than 3.28	3 ft in
1				Height.		
2						
3						
4						
5.	-			Hydrophytic Vegetation		
J	0	= Total Cov		Present? Yes	No	
50% of total cover:0		f total cover:	_			
Remarks: (Include photo numbers here or on a separate s		r total cover				
Remarks. (include prioto numbers here or on a separate s	neet.)					

SOIL Sampling Point: W-O13

Profile Desc	ription: (Describe t	o the depti	needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	<u>Loc²</u>	<u>Texture</u>	Remarks
0-12	2.5Y 5/2	70	7.5YR 5/6	30	С	M/PL	SIC	
12-18	10YR 4/2	95	7.5YR 4/6	5	С	M/PL	SIC	Spots of organic material
¹ Type: C=Co	oncentration, D=Depl	etion, RM=I	Reduced Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						India	cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		- 0)			(MLRA 136, 147)
	ick (A10) (LRR N)	(411)	Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Da Redox Depre					Other (Explain in Remarks)
	fucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N		
-	147, 148)		MLRA 13		05 (1 12) (LICIT II,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	36, 122)	³ In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					retland hydrology must be present,
-	Matrix (S6)		Red Parent I					nless disturbed or problematic.
Restrictive I	Layer (if observed):							
Туре:			<u></u>					
Depth (inc	ches):		<u></u>				Hydric So	il Present? Yes _ ✓ No
Remarks:								

Wetland Photograph Page

Wetland ID W-O13



Photograph Direction NE

Date: 06/16/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 10/08/19

 $\label{eq:comments:2019} \mbox{ Comments: } 2019 \mbox{ wetland delineation confirmation.}$

Project/Site: MVP	City/C	county: Webster		Sampling Date: 06/16/2015
Applicant/Owner: MVP		,		Sampling Point: W-O13 UP
Investigator(s): A. Rodrian S. Therkildsor	v. Prilepin Section			_ 1
Landform (hillslope, terrace, etc.): Sideslope				Slone (%): 2
Subregion (LRR or MLRA): LRRN	Lat. 38.533781	Long: -80.5	 13692	Datum: NAD83
Soil Map Unit Name: Pineville-Gilpin-Guyane				
•			 '	•
Are climatic / hydrologic conditions on the site to				
Are Vegetation, Soil, or Hydrolo	gy <u> </u>	bed? Are "Normal Ci	ircumstances" p	resent? Yes <u> </u>
Are Vegetation, Soil, or Hydrolo	gy naturally problema	atic? (If needed, exp	olain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point locations	s, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No			
	No ✓	Is the Sampled Area	W	No ✓
	No ✓	within a Wetland?	Yes	NO <u>*</u>
Remarks:				
Upland				
				ļ
HYDROLOGY				
Wetland Hydrology Indicators:		<u>S</u>	econdary 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 (B14)	_ Sparsely Veo	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od	or (C1)	_ Drainage Pat	tterns (B10)
Saturation (A3)	·	es on Living Roots (C3)	_ Moss Trim Li	
Water Marks (B1)	Presence of Reduced	d Iron (C4)	_ Dry-Season	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	marks)		tressed Plants (D1)
Iron Deposits (B5)		_	_ Geomorphic	
Inundation Visible on Aerial Imagery (B7)			_ Shallow Aqui	nard (D3) ophic Relief (D4)
Water-Stained Leaves (B9)Aquatic Fauna (B13)		_	Microtopogra FAC-Neutral	•
Field Observations:			_ TAC-Neutral	1631 (03)
	o Depth (inches):			
	Depth (inches):			
	Depth (inches):	-	drology Procon	nt? Yes No_ ✓
(includes capillary fringe)			0,5	III: 163 NOV
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if availal	ble:	
Remarks:				
Dry				

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

Sampling Point: W-O13 UP

Trop Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (1 lot size)		Species?		Number of Dominant Species	
1. Pinus strobus	40		FACU_	That Are OBL, FACW, or FAC: 4	(A)
2. Nyssa sylvatica	20		FAC	Total Number of Dominant	
3. Liriodendron tulipifera	30		FACU_	Species Across All Strata: 6	(B)
4. Acer rubrum	60		FAC	Descrit of Descinent Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:66	(A/B)
6					(, , ,)
7				Prevalence Index worksheet:	
	150	= Total Cov		Total % Cover of: Multiply by:	
50% of total cover: 75	20% of	total cover:	30	OBL species x 1 =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	_
1. Pinus strobus	10		FACU	FAC species x 3 =	
2. Acer rubrum	10			FACU species x 4 =	
3. Nyssa sylvatica	20		FAC	UPL species x 5 =	
	30		FAC	Column Totals: (A)	
4. Aralia spinosa			F <u>AC</u>	Column rotals (A)	_ (D)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9					
		Total Cov	 er	3 - Prevalence Index is ≤3.0¹	
50% of total cover:35				4 - Morphological Adaptations ¹ (Provide sup	porting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)	
1. Solidago canadensis	40	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain	n)
·· ·			1/10		
2				¹ Indicators of hydric soil and wetland hydrology r	nust
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5					
6				Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regardl	
7				height.	622 OI
8					
				Sapling/Shrub – Woody plants, excluding vines	
9				than 3 in. DBH and greater than or equal to 3.28 m) tall.	π(1
10				my tall.	
11				Herb – All herbaceous (non-woody) plants, rega	rdless
00		= 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. None					
2					
3					
4					
T				Hydrophytic	
5				Vegetation Present? Yes ✓ No	
O		= Total Cov	_	Fieseit: 1es_v NO	
50% of total cover:0		total cover:	0		
Remarks: (Include photo numbers here or on a separate s	heet.)				
Heavy leaf litter and shade					
•					

Sampling Point: W-O13 UP

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
		SCL Dry
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	· · · · · · · · · · · · · · · · · · ·
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) 2 cm Muck (A10) (LRR N)	Depleted Matrix (F3)Redox Dark Surface (F6)	(MLRA 136, 147) Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Redox Bark Surface (F0) Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	Guier (Explain in recinance)
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 14	* ** *
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type: Rocks	<u></u>	
Depth (inches): 11	<u></u>	Hydric Soil Present? Yes No _✓
Remarks:		
Upland		
1/2 inch of organic layer of leaf litter		

Project/Site: MVP	City/County: Webster	Sa	ampling Date: 05/08/2016
Applicant/Owner: MVP			Sampling Point: W-KL8
	Sexton Section, Township, Range: N/A	·	
• , ,	Local relief (concave, convex, none		Slone (%)· 1
Subregion (LRR or MLRA): LRR N			
- · · · · · · · · · · · · · · · · · · ·	15 percent slopes, very stony		
	cal for this time of year? Yes No (li		
	significantly disturbed? Are "Normal 0	Circumstances" pres	sent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, ex	plain any answers i	n Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point location	ns, transects, ii	mportant features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area		
Hydric Soil Present? Yes	is the Sampled Area	Yes 🗸	NI -
Wetland Hydrology Present? Yes	within a Wetland?	Yes	No
Remarks: Cowardin Code: PEM	HGM: Depressional Water Type: N	IRPWW	
	•	11(1 ****	
Likely created from compression	of soil by venicles		
HYDROLOGY			())
Wetland Hydrology Indicators:			s (minimum of two required)
Primary Indicators (minimum of one is required;		Surface Soil Cra	` ,
Surface Water (A1)	True Aquatic Plants (B14)		ated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres on Living Roots (C3)	Drainage Patter	
Saturation (A3) Water Marks (B1)	Presence of Reduced Iron (C4)	Moss Trim Lines Dry-Season Wa	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrow	
Orift Deposits (B3)	Thin Muck Surface (C7)	-	le on Aerial Imagery (C9)
✓ Algal Mat or Crust (B4)	Other (Explain in Remarks)		ssed Plants (D1)
Iron Deposits (B5)		Geomorphic Po	
Inundation Visible on Aerial Imagery (B7)	-	Shallow Aquitar	
✓ Water-Stained Leaves (B9)		Microtopograph	
Aquatic Fauna (B13)	<u>-</u>	FAC-Neutral Te	st (D5)
Field Observations:			
Surface Water Present? Yes No _	Depth (inches):1		
Water Table Present? Yes No _	Depth (inches):8		
	Depth (inches): 0 Wetland Hy	drology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monito)	ing well, aerial photos, previous inspections), if avail	able:	
,			
Remarks: Wet roadside depression			
vvet roadside depression			

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

Sampling Point: W-KL8	
st worksheet:	

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (1 lot size)		Species?		Number of Dominant Species
1			<u> </u>	That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (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:
r	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 =
<u>Japinig/Ortrab Ottatum</u> (1 lot 3126				FAC species x 3 =
1			· ——	FACU species x 4 =
2				
3				UPL species x 5 =
4			<u> </u>	Column Totals: (A) (B)
5			<u> </u>	Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9				2 - Dominance Test is >50%
	_	= 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')				data in Remarks or on a separate sheet)
1. Juncus effusus	40	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Scirpus cyperinus	20		FACW	
3. Eleocharis obtusa	15		OBL	¹ Indicators of hydric soil and wetland hydrology must
4 Viola blanda	3		FACW	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
5. Potentilla simplex			FACU_	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
	79	= Total Cov	/er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>39.</u> 5	5 20% of	total cover	15.8	W 1 2 20 6
Woody Vine Stratum (Plot size:15')				Woody vine – All woody vines greater than 3.28 ft in height.
1				noight.
2				
			. ——	
3			· ——	
4				Hydrophytic
5				Vegetation Present? Yes ✔ No
500/ // /		= Total Cov	_	riesent: res No
50% of total cover:0		total cover	:	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-KL8

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		Redox	k Feature:	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-3	2.5Y 5/2	93	7.5 YR 6/8		С	M/PL	CL			
3-7	2.5Y 7/2	93	7.5 YR 6/8	7	C	M/PL	CL			
7-12	Gley N 7/1	95	7.5 YR 6/8	5	С	PL	C			
										_
								<u> </u>		
		-				-				-
						·				
										
					-					
	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.			ing, M=Matrix.	
Hydric Soil I									roblematic Hy	
Histosol			Dark Surface		(00) ((A10) (MLRA 1	47)
	pipedon (A2)		Polyvalue Be				148) C		e Redox (A16)	
Black Hi	, ,		Thin Dark Su			147, 148)	ь.	MLRA 14		/F40)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		F2)		<u> </u>	MLRA 1:	oodplain Soils	(F19)
	ick (A10) (LRR N)		Redox Dark S		- 6)		V		w Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar					•	ain in Remarks)	, ,
	ark Surface (A12)	(,,,,	Redox Depre		. ,			(=,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
	lucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,				
	A 147, 148)		MLRA 136		, , ,					
Sandy G	ileyed Matrix (S4)		Umbric Surfa	ce (F13) ((MLRA 13	36, 122)	³ Ind	icators of h	ydrophytic veg	etation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	etland hydro	ology must be p	oresent,
	Matrix (S6)		Red Parent M	1aterial (F	21) (MLR	A 127, 147) un	less disturb	ped or problem	atic.
	ayer (if observed):									
Type: Ro									,	
	ches): 12						Hydric Soil	Present?	Yes	No
Remarks:										



Photograph Direction _____

Comments:

Project/Site: MVP	City/County: We	bster	_ Sampling Date: 05/08/2016
Applicant/Owner: MVP			Sampling Point: W-KL8-UP
Investigator(s): J. Cook, D. McCullough, L.			<u> </u>
Landform (hillslope, terrace, etc.): Summit		_	Slope (%): 2
Subregion (LRR or MLRA): LRR N			Datum: NAD 83
Soil Map Unit Name: GCC-Gilpin silt loam, 3 to		=	
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	/ significantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach si			
_ , , , , _	No.	npled Area	
	No within a W	/etland? Yes	No
Remarks: Cowardin Code: UPLAND	HGM: Wa	ater Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface So	il Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living		
Water Marks (B1)	Presence of Reduced Iron (C4)	· ·	Nater Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S		
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible 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 Aq	
Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopog FAC-Neutra	raphic Relief (D4)
Field Observations:		1 AC-Neutra	1 (03)
	✓ Depth (inches):		
	Depth (inches):		
	✓ Depth (inches):	Wetland Hydrology Prese	ent? Yes No 🗸
(includes capillary fringe)		, ,	
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:	
Remarks:			
None			

Sampling	Point:	W-KL	_8-UP
Samulinu	r on it.		

30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	Status	Number of Dominant Species
1. Acer rubrum	20		FAC	That Are OBL, FACW, or FAC:6 (A)
2. Ulmus rubra			FAC	Total Number of Dominant
3. Acer pennsylvanicum	5		FACU_	Species Across All Strata: 9 (B)
4. Quercus rubra	15		FACU_	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 67 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		
50% of total cover: 25	20% of	total cover:	10	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Acer pennsylvanicum	10		FACU_	FAC species x 3 =
2. Nyssa sylvatica	5		FAC	FACU species x 4 =
3		-		UPL species x 5 =
4				Column Totals: (A) (B)
5				December of Lader B/A
6		'		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	15	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	2070 01	total cover.		data in Remarks or on a separate sheet)
1. Acer rubrum	5	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Quercus rubra	5	<u> </u>	FACU	
3. Ulmus rubra	5	~	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Magnolia acuminata	3		FACU	be present, unless disturbed or problematic.
			r <u>ACU</u>	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
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: 9	20% of	total cover:	3.6	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Smilax rotundifolia	15		FAC	_
2		-		
3				
4				Herdran herdia
5.				Hydrophytic Vegetation
	15	= Total Cov	<u></u>	Present? Yes V No
50% of total cover:7.5		total cover:	_	
Remarks: (Include photo numbers here or on a separate si				
	,			

Depth	Matrix	o the depth	needed to document the indicator or on the Redox Features	ommin the ab	serice of mulcati)i 5. <i>)</i>	
(inches)	Color (moist)	%	Color (moist) % Type ¹ L	.oc ² Text	ure	Remarks	
0-2	10 YR 3/2	100		Lo	am		
2-16	10 YR 5/6	100_		Lo	am_		
							
	·						
	·						
		etion, RM=Re	educed Matrix, MS=Masked Sand Grains	. ² Locat	ion: PL=Pore Lini		
Hydric Soil	ndicators:				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		(510)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Flo		s (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted Matrix (F3)Redox Dark Surface (F6)		(MLRA 13	, 147) Dark Surfac	o (TF12)
	d Below Dark Surface	e (A11)	Nedox Bark Surface (1 0) Depleted Dark Surface (F7)			in in Remarks	
	ark Surface (A12)	, (, , , ,	Redox Depressions (F8)				-,
	lucky Mineral (S1) (L	RR N,	Iron-Manganese Masses (F12) (LRF	R N,			
	A 147, 148)		MLRA 136)				
	lleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	³ Indicators of h	ydrophytic ve	getation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MI		wetland hydro		
	Matrix (S6)		Red Parent Material (F21) (MLRA 1	27, 147)	unless disturb	ed or problen	natic.
Restrictive I	_ayer (if observed):						
Type:			_				
Depth (inc	ches):		_	Hydr	ic Soil Present?	Yes	_ No
Remarks:				,			
Good uplai	nd soil						

Project/Site: MVP	City/Co	_{ounty:} Webster	_ Sampling Date: 05/02/2015
Applicant/Owner: MVP		State: WV	
Investigator(s): A. Grech, S. Kelly, M. Whitte			
Landform (hillslope, terrace, etc.): Summit		. •	Slope (%): 0-3
Subregion (LRR or MLRA): LRRN		Long: -80.544849	
Soil Map Unit Name: Gilpin silt loam, 3 to 15			
Are climatic / hydrologic conditions on the site typical	al for this time of year? Ye	es No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology _	-		
Are Vegetation, Soil, or Hydrology _			
SUMMARY OF FINDINGS – Attach site		· -	
	,		•
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes	,	Is the Sampled Area	,
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	/ No / No	within a Wetland? Yes <u>▼</u>	No
Remarks:			
Cowardin Code: PEM HGM: slope WT: N	JRPWW		
Information listed on this form represents		n 2015. The wetland was revisite	d on 11/09/2019. Presence
of wetland hydrology, hydrophytic vegeta			
Supplement delineation methodology.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface So	il Cracks (B6)
✓ Surface Water (A1)	True Aquatic Plants (E		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odd		-
	✓ Oxidized Rhizosphere		Lines (B16)
Water Marks (B1)	Presence of Reduced	Iron (C4) Dry-Season	n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6) Crayfish Bu	ırrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C	C7) Saturation	Visible on Aerial Imagery (C9)
✓ Algal Mat or Crust (B4)	Other (Explain in Rem	narks) Stunted or	Stressed Plants (D1)
Iron Deposits (B5)		Geomorphi	c Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)
✓ Water-Stained Leaves (B9)		 . •	raphic Relief (D4)
✓ Aquatic Fauna (B13)		✓ FAC-Neutr	al Test (D5)
Field Observations:		6	
Surface Water Present? Yes <u>✓</u> No	Depth (inches):	<u>6</u>	
	Depth (inches):		,
Saturation Present? Yes No (includes capillary fringe)	✓_ Depth (inches):	Wetland Hydrology Prese	ent? Yes <u>√</u> No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, prev	vious inspections), if available:	
Remarks:			
Man-made wetlands in logging area.			

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

/EGETATION (Four Strata) – Use scientific n	ames of	piants.		Sampling Point: W-H60
301	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL_FACW_or FAC: 3 (A)
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:
500/ 61 1 0		= 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')				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				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	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. Scirpus atrovirens	20		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	20		F <u>ACW</u>	1
3. Dichanthelium clandestinum	20		F <u>AC</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Onoclea sensibillis	10		F <u>ACW</u>	Definitions of Four Vegetation Strata:
5	·			
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.		-		Llawb All borbossous (non usedu) plants regardless
	70	= 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:35		total cover		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
1				Holght.
2.				
3				
4				
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cov	rer	Present? Yes No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
, ,	,			

SOIL Sampling Point: W-H60

Profile Desc	ription: (Describe t	o the dept	th needed to docur	nent the	indicator	or confirn	n the abser	nce of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	
0-15	10YR 6/2	92	5YR 4/6	8	<u> </u>	M/PL	SiCL	
15-20	2.5YR 5/2	80	5YR 4/6	20	С	M/PL	SiC	
				-				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I								dicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				_ 2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		ice (S8) (N	/ILRA 147,		Coast Prairie Redox (A16)
Black Hi	•		Thin Dark Su	rface (S9) (MLRA	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	d Matrix				Piedmont Floodplain Soils (F19)
	l Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		•		_	_ Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dai				_	Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		ses (F12) (LRR N,		
	147, 148)		MLRA 13 Umbric Surfa	•	/MI DA 13	DE 122\	;	³ Indicators of hydrophytic vegetation and
	leyed Matrix (S4) edox (S5)		Piedmont Flo					wetland hydrology must be present,
•	Matrix (S6)		Red Parent N	•				unless disturbed or problematic.
	ayer (if observed):		1100 1 01011	natoriai (i			-, 	unioss distarbed of presidentation
J	:hes):						Llydric 9	Soil Present? Yes ✓ No
	лез).						riyuric	Soli Fleselit: Tes No
Remarks:								

Wetland Photograph Page

Wetland ID W-H60



Photograph Direction SW

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 11/09/19

 $\label{eq:comments:2019} \mbox{ Comments: } 2019 \mbox{ wetland delineation confirmation.}$

Project/Site: MVP	City/C	_{county:} Webster		Sampling Date: 05/02/2015
Applicant/Owner: MVP		3		Sampling Point: W-H60-UP
Investigator(s): A. Grech, S.Kelly, M. Wh	nitten Section	on Township Range NA		_
Landform (hillslope, terrace, etc.): Summit	<u> </u>			Slone (%): 0-3
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Gilpin silt loam, 3 to				
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydrol	ogy significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes <u>▼</u> No
Are Vegetation, Soil, or Hydrol	ogy naturally problema	atic? (If needed, e	xplain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point locatio	ns, transects	s, important features, etc.
Lludraphytia Vagatation Present?	. No /			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No	Is the Sampled Area		/
Wetland Hydrology Present? Yes	s No <u>√</u>	within a Wetland?	Yes	No <u> </u>
Remarks:				
Upland, forest				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		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 L	
Water Marks (B1)	Presence of Reduced		=	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C Other (Explain in Rer			isible on Aerial Imagery (C9) stressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Ker	narks)		Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)	,			aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	•
Field Observations:				
Surface Water Present? Yes N	lo 🗹 Depth (inches):			
Water Table Present? Yes N	lo <u>√</u> Depth (inches):			
	Io \checkmark Depth (inches):	Wetland H	ydrology Preser	nt? Yes No✓
(includes capillary fringe) Describe Recorded Data (stream gauge, more	nitoring well-aerial photos, pre	vious inspections) if avai	lable.	
Beschibe Recorded Bata (Stream gauge, mor	intoring wen, derial photos, pre	vious inspections), ii uvui	lubic.	
Remarks:				

/EGETATION (Four Strata) – Use scientific na	ames or	piants.		Sampling Poin	[: <u>VV-1100-0</u>	<u> </u>
Troo Stratum (Diot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30) 1 Magnolia accuminata	30	Species? ✓	FACU	Number of Dominant Species	2	(A)
2. Prunus serotina	30			That Are OBL, FACW, or FAC: _		(A)
3. Lireodendron tulipifera	20		FACU FACU	Total Number of Dominant	6	(5)
			r <u>ACU</u>	Species Across All Strata:		(B)
				Percent of Dominant Species	22	
5				That Are OBL, FACW, or FAC: _	33	(A/B)
6				Prevalence Index worksheet:		
7	80	Tatal Cau		Total % Cover of:	Multiply by:	
50% of total cover: 40		= Total Cov total cover:		OBL species x 1	=	
Sapling/Shrub Stratum (Plot size: 15'	2070 01	total cover.		FACW species x 2		
1. Acer rubrum	10	✓	FAC	FAC species x 3		
				FACU species x 4		
				UPL species x 5		
3				Column Totals: (A)		
4						
5				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate	rs:	
7				1 - Rapid Test for Hydrophytic	Vegetation	
8				2 - Dominance Test is >50%		
9		Tatal Cau		3 - Prevalence Index is ≤3.0 ¹		
50% of total cover: 5		= Total Cov		4 - Morphological Adaptations	¹ (Provide sup	porting
Herb Stratum (Plot size: 5')	2070 01	total cover.		data in Remarks or on a se	parate sheet)	
1. Podophyllum peltatum	15	1	FACU	Problematic Hydrophytic Vege	tation ¹ (Explai	in)
·· ·	-		1/100_			
2				¹ Indicators of hydric soil and wetla	าd hydrology r	nust
3				be present, unless disturbed or pro		
4				Definitions of Four Vegetation S	trata:	
5				Tree – Woody plants, excluding vii	nes, 3 in. (7.6	cm) or
6				more in diameter at breast height (
7				height.		
8				Sapling/Shrub – Woody plants, e.		
9				than 3 in. DBH and greater than or m) tall.	equal to 3.28	ft (1
10		· ——		Thy tall.		
11	15			Herb – All herbaceous (non-wood)		rdless
50% of total cover: 7.5		= Total Cov total cover:		of size, and woody plants less than	1 3.28 II laii.	
Woody Vine Stratum (Plot size: 15')	20 % 01	total cover.		Woody vine – All woody vines gre	ater than 3.28	ft in
1. Smilax rotundifolia	10	1	FAC	height.		
			1.40			
2						
3						
4				Hydrophytic		
5	10	T-1-1 0		Vegetation Present? Yes	No ✓	
50% of total cover: 5		= Total Cov total cover:	_	1.1000		
Remarks: (Include photo numbers here or on a separate sl		total cover.		<u> </u>		
Remarks. (include prioto flumbers fiere of on a separate si	neet.)					

Sampling Point: W-H60-UP

SOIL

Profile Desc	ription: (Describe	to the depth	n needed to docun	nent the indicat	or or confirm	the absence	of indicators.)	
Depth	Matrix		Redox	x Features				
(inches)	Color (moist)	%	Color (moist)	%Type	e ¹ Loc ²	<u>Texture</u>	Remar	·ks
0-8	10YR 5/3	100				L		
8-15	10YR 5/4	100				SC		
		· — ·						
							-	
		·						
¹ Type: C=Co	oncentration, D=Dep	· ——— · letion. RM=f	Reduced Matrix. MS	S=Masked Sand	Grains.	² Location: PL		trix.
Hydric Soil I			Toddood Mat My Mic				itors for Problematic	
Histosol			Dark Surface	(S7)			cm Muck (A10) (MLR	•
	ipedon (A2)			low Surface (S8)	(MLRA 147.		oast Prairie Redox (A	
Black His				rface (S9) (MLR			(MLRA 147, 148)	,
	n Sulfide (A4)		Loamy Gleye		,	Pi	iedmont Floodplain S	oils (F19)
	Layers (A5)		Depleted Mat				(MLRA 136, 147)	, ,
	ck (A10) (LRR N)		Redox Dark S			Ve	ery Shallow Dark Surf	face (TF12)
Depleted	l Below Dark Surface	e (A11)		k Surface (F7)		<u> </u>	ther (Explain in Rema	arks)
Thick Da	rk Surface (A12)		Redox Depre	essions (F8)				
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masses (F12	2) (LRR N,			
	147, 148)		MLRA 13	6)				
	leyed Matrix (S4)			ce (F13) (MLRA			icators of hydrophytic	
Sandy R	edox (S5)			odplain Soils (F´			tland hydrology must	
	Matrix (S6)		Red Parent N	/laterial (F21) (M	LRA 127, 147	') unl	ess disturbed or prob	lematic.
	ayer (if observed):							
_{Туре:} <u>Ве</u>	drock							
Depth (inc	thes): <u>15</u>					Hydric Soil	Present? Yes	No <u>√</u> _
Remarks:						1	·	

Project/Site: MVP	City/Co	_{ounty:} Webster	Sampling Date: 05/02/2015					
Applicant/Owner: MVP		State: W						
Investigator(s): A. Grech, S. Kelly, M. Wh								
Landform (hillslope, terrace, etc.): Summit								
Subregion (LRR or MLRA): LRRN								
Soil Map Unit Name: Gilpin silt loam, 3 to 1								
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Ye	es No (If no, explai	n in Remarks.)					
Are Vegetation, Soil, or Hydrolog	•							
Are Vegetation, Soil, or Hydrolog								
SUMMARY OF FINDINGS – Attach s								
Hydrophytic Vegetation Present? Yes	✓ No							
	✓ No	Is the Sampled Area	✓ No					
Wetland Hydrology Present? Yes		within a Wetland? Yes _	NO					
Information listed on this form represe	Remarks: Cowardin Code: PEM HGM: Depressional WT: NRPWW Information listed on this form represents the data collected in 2015. The wetland was revisited on 11/09/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.							
HYDROLOGY								
Wetland Hydrology Indicators:		·	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 (E		ly Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odd	• •	ge Patterns (B10)					
Saturation (A3)	✓ Oxidized Rhizosphere	• • • —	rim Lines (B16)					
<pre> Water Marks (B1) Sediment Deposits (B2)</pre>	Presence of Reduced Recent Iron Reduction	` '	ason Water Table (C2) h Burrows (C8)					
Occurrent Deposits (B2)	Thin Muck Surface (C	, ,	ion Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Rem		d or Stressed Plants (D1)					
Iron Deposits (B5)	_ ` ' '		orphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)			v Aquitard (D3)					
✓ Water-Stained Leaves (B9)			pographic Relief (D4)					
✓ Aquatic Fauna (B13)		FAC-Ne	eutral Test (D5)					
Field Observations:								
Surface Water Present? Yes No	Depth (inches):	<u>5</u>						
Water Table Present? Yes No	Depth (inches):							
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology P	resent? Yes V No No					
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, prev	vious inspections), if available:						
Remarks:								
Man-made wetlands in logging area. T	adnoles and Red-snott	ed Newts						
Wan-made wellands in loggling area. T	aupoles and iteu-spott	ed Newts.						

<u>Free Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
			FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		·		Total Number of Dominant Species Across All Strata: (B)
-				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
				111dt 7110 002, 171000, 011710.
				Prevalence Index worksheet: Total % Cover of: Multiply by:
,		= Total Cov		
50% of total cover:) 20% of	total cover:	0	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
·				FAC species x 3 =
				FACU species x 4 =
l <u>.</u>				UPL species x 5 =
<u> </u>	_			Column Totals: (A) (B)
<u> </u>				Prevalence Index = B/A =
S				Hydrophytic Vegetation Indicators:
·				✓ 1 - Rapid Test for Hydrophytic Vegetation
l				✓ 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0¹
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:) 20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
Scirpus atrovirens	20		<u>OBL</u>	Problematic Hydrophytic Vegetation (Explain)
2. Juncus effusus	20		F <u>ACW</u>	¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
ł				Definitions of Four Vegetation Strata:
<u>. </u>				
S				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
.	_			height.
3	_			Conline/Chrub Woody plants avaluding vines less
)				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0	<u> </u>			m) tall.
1				Herb – All herbaceous (non-woody) plants, regardless
	40	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2	0 20% of	total cover:	8	Westwine Allowed views meeter than 2.00 ft in
Noody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
				Y
2.				
3				
l				Undrankytia
5.				Hydrophytic Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate				
tomation (morado proto namboro noto or on a coparato	oo,			

Sampling Point: W-H61

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the abs	sence of indicato	ors.)
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Textu		Remarks
0-3	10YR 4/2	95	5YR 4/6	5	С	M/PL	SC	<u>L</u>	
3-8	10YR 5/2	80	5YR 4/6	20	С	M/PL	SL	<u> </u>	
8-15	10YR 5/6	100					C		
15-20	2.5YR 6/4	100					SC	;	
					'				
					-				
					-				
¹Type: C=Co	oncentration, D=Depl	letion, RM=	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Locatio	on: PL=Pore Lini	ing, M=Matrix.
Hydric Soil I	ndicators:								roblematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148)	Coast Prairie	e Redox (A16)
Black His			Thin Dark Su			47, 148)		(MLRA 14	
	n Sulfide (A4)		Loamy Gleye		F2)				oodplain Soils (F19)
	Layers (A5)		Depleted Ma		-0)			(MLRA 13	
	ck (A10) (LRR N) Below Dark Surface	· (A11)	Redox Dark : Depleted Dark :	•			•		v Dark Surface (TF12) in in Remarks)
	ark Surface (A12)	5 (A11)	Redox Depre				•	Other (Expla	iii iii Neiliaiks)
	lucky Mineral (S1) (L	.RR N.	Iron-Mangan			LRR N.			
	147, 148)	,	MLRA 13		()(,			
	leyed Matrix (S4)		Umbric Surfa	-	(MLRA 13	6, 122)		³ Indicators of h	ydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	48)	wetland hydro	ology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127, 147	7)	unless disturb	ed or problematic.
Restrictive L	ayer (if observed):								
Type:									4
Depth (inc	ches):						Hydrid	Soil Present?	Yes No
Remarks:									

Wetland Photograph Page

Wetland ID W-H61



Photograph Direction North

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 11/09/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Count	_{y:} Webster	Sampling Date: 05/02/2015
Applicant/Owner: MVP	<u> </u>	State: WV	Sampling Point: W-H61-UP
Investigator(s): A. Grech, S.Kelly, M. Whitte			
Landform (hillslope, terrace, etc.): Summit			Slope (%): 0-3
Subregion (LRR or MLRA): LRRN		Long: -80.544883	
Soil Map Unit Name: Gilpin silt loam, 3 to 15			
Are climatic / hydrologic conditions on the site typi			
Are Vegetation, Soil, or Hydrology	•		
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach sit			
		ng pomit locations, transco	to, important routaros, etc.
	No V Is t	he Sampled Area	
	No wit	hin a Wetland? Yes	No
Wetland Hydrology Present? Yes Remarks:	No		
Upland, forest			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; of	check 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 (C	-	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres or		Lines (B16)
Water Marks (B1)	Presence of Reduced Iron	. ,	on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in .		Surrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7)Other (Explain in Remarks		Visible on Aerial Imagery (C9) Stressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Remarks		nic Position (D2)
Inundation Visible on Aerial Imagery (B7)			quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neut	- •
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 Hydrology Pres	sent? Yes No
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	
Remarks:			

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

Sampling Point: W-H61-UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot size)		Species?	· ·	Number of Dominant Species	0	
1. Magnolia accuminata	30	<u> </u>	<u>FACU</u>	That Are OBL, FACW, or FAC:	2	(A)
2. Prunus serotina	30		FACU_	Total Number of Dominant		
3. Lireodendron tulipifera	20		FACU_	Species Across All Strata:	6	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	33	(A/B)
6						` ,
7				Prevalence Index worksheet:		
	80	= Total Cov	er er	Total % Cover of:	Multiply by:	
50% of total cover: 40	20% of	total cover	16	OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1 Acer rubrum	10	✓	FAC	FAC species x	3 =	_
2			· ——	FACU species x	4 =	_
				UPL species x		
3				Column Totals: (A		
4				(· ·	,	_ (-)
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indica	tors:	
7				1 - Rapid Test for Hydrophyt		
8				2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0		
	10	= Total Cov	er er	4 - Morphological Adaptation		porting
50% of total cover:5	20% of	total cover				
Herb Stratum (Plot size: 5')				data in Remarks or on a s		
1. Podophyllum peltatum	15		FACU_	Problematic Hydrophytic Vec	getation (Expla	in)
2						
3				¹ Indicators of hydric soil and wetl		must
				be present, unless disturbed or p		
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		
7				height.		
8			<u> </u>	Sapling/Shrub – Woody plants,	excluding vines	. less
9				than 3 in. DBH and greater than		
10				m) tall.		
11				Herb – All herbaceous (non-woo	dv) plants, rega	rdless
	15	= Total Cov	er er	of size, and woody plants less that		
50% of total cover: 7.5	20% of	total cover	3	Was decided Allows do do do		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines g height.	reater than 3.28	3 π in
1. Smilax rotundifolia	10	✓	FAC	neight.		
2		-				
^			·			
		-				
4				Hydrophytic		
5	10			Vegetation Present? Yes	No 🗸	
500/ () 5		= Total Cov	_	Tresent: Tes	NO	
50% of total cover: 5		total cover				
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-H61-UP

SOIL

Depth	Matrix		Redox Features Color (moist) % Type ¹ Loc			D	
nches) 0-8	Color (moist) 10YR 5/3	100	Color (moist) % Type ¹ Loc	Z Texture	<u> </u>	Remarks	i
8-15	10YR 5/4	100		SC			
		. —— —					
				 -	<u> </u>		
							
		- —— –					
	noontration D_Dan	lotion DM_D	educed Matrix, MS=Masked Sand Grains.	2l continu	: PL=Pore Lin	ina M-Motrix	,
	ndicators:	neuon, Kivi=K	educed Matrix, MO=Masked Sand Grains.	Location	dicators for P	roblematic F	Ivdric Soils ³ :
_ Histosol			Dark Surface (S7)		_ 2 cm Muck (
	ipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie	, .	•
Black His			Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 14		,
_ Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	_ Piedmont Flo	oodplain Soil	s (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		
	ck (A10) (LRR N)	(* (*)	Redox Dark Surface (F6)	_		v Dark Surfac	
	Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	_	_ Other (Expla	in in Remark	S)
	rk Surface (A12) ucky Mineral (S1) (I	I RR N	Redox Depressions (F8)Iron-Manganese Masses (F12) (LRR N				
	. 147, 148)	LIXIX IV,	MLRA 136)	,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	Indicators of h	vdrophytic ve	egetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA		wetland hydro		-
_ Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 127,	147)	unless disturb	ed or proble	matic.
estrictive L	ayer (if observed):						
			<u></u>				
Type: Be						Yes	No <u> </u>
			_	Hydric	Soil Present?	.00	
Type: Be			<u> </u>	Hydric	Soil Present?		
Type: Be				Hydric	Soil Present?		<u> </u>
Type: Be			_	Hydric	Soil Present?		
Type: Be			<u> </u>	Hydric	Soil Present?	100	
Type: Be			<u> </u>	Hydric :	Soil Present?		
Type: Be			<u> </u>	Hydric :	Soil Present?		
Type: Be			_	Hydric :	Soil Present?		
Type: Be				Hydric s	Soil Present?		
Type: Be				Hydric :	Soil Present?		
Type: Be			<u> </u>	Hydric :	Soil Present?		
Type: Be				Hydric :	Soil Present?		
Type: Be			_	Hydric s	Soil Present?		
Type: Be				Hydric s	Soil Present?		
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?	.60	
Type: Be				Hydric s	Soil Present?		
Type: Be				Hydric	Soil Present?		
Type: Be Depth (inc				Hydric s	Soil Present?		

Project/Site: MVP	City/Co	_{unty:} Webster	Sampling Date: 05/02/2015					
Applicant/Owner: MVP			WV Sampling Point: W-H62					
Investigator(s): A. Grech, S. Kelly, M. Whitte								
Landform (hillslope, terrace, etc.): Summit								
		38.517144 Long: -80.545693						
Soil Map Unit Name: Dekalb-Rock outcrop co		=						
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes	s No (If no, exp	olain in Remarks.)					
Are Vegetation, Soil, or Hydrology _	significantly disturbe	ed? Are "Normal Circums	tances" present? Yes No					
Are Vegetation, Soil, or Hydrology _								
SUMMARY OF FINDINGS – Attach site								
Hydrophytic Vegetation Present? Yes	/ No							
	/ No I	Is the Sampled Area	es No					
Wetland Hydrology Present? Yes	/No	within a Wetland? Ye	S NO					
Information listed on this form represents	Remarks: Cowardin Code: PEM HGM: Depressional WT: NRPWW Information listed on this form represents the data collected in 2015. The wetland was revisited on 11/09/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.							
HYDROLOGY								
Wetland Hydrology Indicators:		·	ary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; ch			ace Soil Cracks (B6)					
	True Aquatic Plants (B		rsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide OdorOxidized Rhizospheres	· ·	inage Patterns (B10)					
Saturation (A3) Water Marks (B1)	Presence of Reduced I	• • • —	ss Trim Lines (B16) Season Water Table (C2)					
Sediment Deposits (B2)	Recent Iron Reduction	` '	yfish Burrows (C8)					
Drift Deposits (B3)	Thin Muck Surface (C7	· / — ·	uration Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Rema		nted or Stressed Plants (D1)					
Iron Deposits (B5)	` ` '		omorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Sha'	llow Aquitard (D3)					
<u>✓</u> Water-Stained Leaves (B9)			rotopographic Relief (D4)					
✓ Aquatic Fauna (B13)		<u>✓</u> FAC	C-Neutral Test (D5)					
Field Observations:	6							
Surface Water Present? Yes No	Depth (inches): 6	·						
Water Table Present? Yes No	Depth (inches):							
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology	y Present? Yes No					
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previ	ous inspections), if available:						
Remarks:								
Man-made wetlands in logging area. Tac	Inoles and Red-spotte	ed Newts						
Wan made wettands in logging area. Tae	ipoloo ana rtoa opotto	a Howto.						

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

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-H62
201		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2				That the GBE, I flow, GI i flo.
				Total Number of Dominant Species Across All Strata: 4 (B)
				Species Across All Strata: 4 (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:
50% -(1-1-1		= 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')				FAC species x 3 =
1			·	
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				
9				✓ 2 - Dominance Test is >50% 2 - Dominance Test is >50%
	0	= Total Cov	ver	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. Scirpus atrovirens	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	20		F <u>ACW</u>	
3. Dichanthelium clandestinum	15		FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Sambuca nigra	15			be present, unless disturbed or problematic.
			F <u>AC</u>	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
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>35</u>	20% of	total cover	<u>. 14</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3.				
4				
5				Hydrophytic Vegetation
o	0	= Total Cov		Present? Yes V No
50% of total cover: 0			_	
· · · · · · · · · · · · · · · · · · ·		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-H62

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the	indicator	or confirm	the abs	sence of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	
0-6	10YR 5/2	98	7.5YR 4/6	2	С	M/PL	CI	<u> </u>
6-12	2.5YR 6/6	100					CI	
				-	-	- ——	-	
								
						- ——		
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfa	ice (S8) (N	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black His			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		,	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		>			(MLRA 136, 147)
	ck (A10) (LRR N)	(111)	Redox Dark S	•	,			Very Shallow Dark Surface (TF12)Other (Explain in Remarks)
	l Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				•	Other (Explain in Remarks)
	lucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.		
	147, 148)	,	MLRA 13		00 (1 12)			
	leyed Matrix (S4)		Umbric Surfa	-	(MLRA 13	36, 122)		³ Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo				l8)	wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7)	unless disturbed or problematic.
	ayer (if observed):							
_{Туре:} <u>Ве</u>	edrock							
Depth (inc	hes): 12						Hydrid	c Soil Present? Yes <u></u> ✓ No
Remarks:							l	

Wetland Photograph Page

Wetland ID W-H62



Photograph Direction NE

Date: 05/02/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/09/19

Project/Site: MVP	City/County: $$	Vebster	_ Sampling Date: 05/02/2015			
Applicant/Owner: MVP		State: WV	Sampling Point: W-H62-UP			
	Section, Township, Range: NAD 83					
•	Local relief (concave, convex, none): Convex Slope (%): 0					
Subregion (LRR or MLRA): LRRN Lat		Datum: NAD 83				
Soil Map Unit Name: Dekalb-Rock outcrop comple						
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology	-		present? Yes <u>√</u> No			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	•			
SUMMARY OF FINDINGS – Attach site m						
SOMMAN OF THADINGS - ACCOUNTS THE IT	iap snowing sampling	point locations, transects	, important leatures, etc.			
Hydrophytic Vegetation Present? Yes		Sampled Area				
	_ No✓ within		No <u> </u>			
Wetland Hydrology Present? Yes	No /					
Remarks: Upland, forest						
Spland, forest						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil	l Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)			
1	Hydrogen Sulfide Odor (C1)		atterns (B10)			
	Oxidized Rhizospheres on Liv	ines (B16)				
	Presence of Reduced Iron (C4		Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tille	•				
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)			Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu				
Water-Stained Leaves (B9)			aphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra	l Test (D5)			
Field Observations: Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Watland Hudralagy Draca	nt? Yes No ✓			
(includes capillary fringe)		Wetland Hydrology Prese	nt? Yes NoV			
Describe Recorded Data (stream gauge, monitoring v	well, aerial photos, previous ins	pections), if available:				
Remarks:						
			ļ.			

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

Time Stratum (Plot size: 30" Sc. Cover. Species? Status Acer saccharum	EGETATION (Four Strata) – Use scientific na	Absolute	•	Indicator	Dominance Test worksh	ng Point: W-H62-UP		
Course of the control of the course of th	ree Stratum (Plot size: 30')	% Cover		Status	Number of Dominant Spe	cies		
Lireodendron tulipifera 10 FACU FACU FACU FACU FACU Facin Acro Statism: 4 Percent of Dominant Species That Are OBL, FACW, or FAC: 25 That Are OBL, FACW, or FAC: 26 That Are OBL, FACW Factors Multiply by: 38 That Are OBL, FACW, or FAC: 26 That Are OBL, FACW, or FAC: 27 That Are OBL, FACW, or FAC: 27 That Are OBL, FACW, or FAC: 27 That		30	√		macrico obe, intov, or	1710 (71)		
Bo = Total Cover Total Are OBL, FACW, or FAC: 25 (Internal Property of Provided Stratum Plot size: 15						4		
That Are OBL, FACW, or FAC: 25 (Bo					Percent of Dominant Spec	cies		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =								
Solution Stratum Solution Soluti					Prevalence Index works	heet:		
50% of total cover: 40 20% of total cover: 16 PACU Species x 1 = Acer saccharum 10		80	– Total Cov		Total % Cover of:	Multiply by:		
Acer saccharum 10	50% of total cover: 40	20% of						
Acer saccharum 10	apling/Shrub Stratum (Plot size: 15')							
UPL species x 5 = Column Totals:		10		FACU_	1			
UPL species x 5 = Column Totals:					FACU species	x 4 =		
Column Totals:					UPL species	x 5 =		
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 5 - Sow o					Column Totals:	(A) (B		
					Prevalence Index =	B/A =		
10	•				Hydrophytic Vegetation	Indicators:		
10 = Total Cover 20% of total cover: 2 erb Stratum (Plot size: 5') 50% of total cover: 5 20% of total cover: 2 erb Stratum (Plot size: 5') 10 = Total Cover 20% of total cover: 2 4 - Morphological Adaptations¹ (Provide suppordata 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. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ftm) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic					1 - Rapid Test for Hyd	drophytic Vegetation		
arb Stratum (Plot size: 50% of total cover: 5 20% of total cover: 2 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic					2 - Dominance Test is	s >50%		
so% of total cover: 5 20% of total cover: 2 data in Remarks or on a separate sheety. Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic		10			3 - Prevalence Index	is $\leq 3.0^{1}$		
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic	500/ ft				4 - Morphological Ada	aptations ¹ (Provide supportir		
Tree - Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Tree - Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub - Woody plants, excluding vines, 8 than 3 in. DBH and greater than or equal to 3.28 ftm) tall. Herb - All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') The control of the properties of the		20% 01	total cover:		data in Remarks o	r on a separate sheet)		
Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 8 than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic					Problematic Hydroph	ytic Vegetation ¹ (Explain)		
Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15')	•							
Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic Hydrophytic					¹ Indicators of hydric soil a	nd wetland hydrology must		
Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic	·				be present, unless disturb	ed or problematic.		
Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic Hydrophytic					Definitions of Four Vege	tation Strata:		
more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic Hydrophytic	·				Tree - Woody plants exc	luding vines 3 in (7.6 cm) (
Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. O	•							
Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic Hydrophytic	·							
than 3 in. DBH and greater than or equal to 3.28 ft m) tall. O	·				Sapling/Shrub – Woody	plants, excluding vines, less		
1	•				than 3 in. DBH and greate			
O = Total Cover 50% of total cover: O 20% of total cover: O Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic	0				m) tall.			
50% of total cover: 0 20% of total cover: 0 Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 15 ✓ FAC Hydrophytic	1				Herb – All herbaceous (no	on-woody) plants, regardles		
Woody Vine Stratum (Plot size:15') Smilax rotundifolia 15 FAC Hydrophytic	_			_	of size, and woody plants	less than 3.28 ft tall.		
Noody Vine Stratum (Plot size:) height. Noody Vine Stratum (Plot size:) Noody Vine Stratum (Plot size:	451	20% of	total cover:	0	Woody vine – All woody	vines greater than 3.28 ft in		
Hydrophytic	vectory vine stratam (1 let 312e.		,					
Hydrophytic	Smilax rotundifolia	15		<u>FAC</u>				
Hydrophytic								
nyuropnyuc								
					Hydrophytic			
					Vegetation	,		
15 _ = Total Cover Present? Yes No ✓		15	= Total Cov	er		No <u></u> ✓		
50% of total cover: 7.5 20% of total cover: 3	50% of total cover: 7.5	20% of	total cover:	3				

Sampling Point: W-H62-UP

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the indi	cator o	r confirm	the absen	ce of indicat	ors.)		
Depth	Matrix		Redox	x Features							
(inches)	Color (moist)	%	Color (moist)	<u>%</u> T	ype ¹	Loc ²	<u>Texture</u>		Remark	<u>is</u>	
0-7	10YR 5/6	_100_					SCL				
7-11	10YR 3/2	_100_					SL				
11-20	10YR 5/4	100					С				
								_			
											_
			_								
1- 0 0							2				
'Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	=Masked Sa	nd Grai	ns.		PL=Pore Lir			3.
			D 10 ((07)			inc	dicators for P		•	s:
Histosol			Dark Surface		(CO) (NA I	DA 147	140\	_ 2 cm Muck _ Coast Prairi			
Black Hi	nipedon (A2)		Polyvalue Be Thin Dark Su				146)	_ Coast Prain (MLRA 1		0)	
	n Sulfide (A4)		Loamy Gleye			17, 140)		Piedmont F		ils (F19)	
	Layers (A5)		Depleted Mat					(MLRA 1		(1 10)	
	ck (A10) (LRR N)		Redox Dark S					Very Shallo		ace (TF12)	
	l Below Dark Surface	e (A11)	Depleted Dar		7)			Other (Expl			
	rk Surface (A12)		Redox Depre								
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		(F12) (L	RR N,					
	147, 148)		MLRA 136				3				
	leyed Matrix (S4)		Umbric Surfa					Indicators of I			nd
-	edox (S5) Matrix (S6)		Piedmont FloRed Parent M					wetland hydrunless disturb			
	_ayer (if observed):		Red Parent iv	iateriai (FZ1)	(IVILK)	127, 147	<u>, </u>	uniess distun	bed of proble	mauc.	
Type: Be											
Depth (inc							Undria C	Soil Present?	Voc	No_ v	/
•	.nes). <u>10</u>						nyunc 3	oui Present?	Yes		
Remarks:											

Project/Site: MVP	City/Cou	_{unty:} Webster	Sampling Date: 05/03/2015						
Applicant/Owner: MVP		V Sampling Point: W-B39							
Investigator(s): E. Foster, K. Lamontagne, C.			· · ·						
Landform (hillslope, terrace, etc.): Terrace	Local relief	(concave, convex, none): Conca	slope (%): 0						
Subregion (LRR or MLRA): LRRN L	_at: 38.508119		Datum: NAD 83						
Soil Map Unit Name: Pineville-Gilpin-Guyando									
Are climatic / hydrologic conditions on the site typica									
Are Vegetation, Soil, or Hydrology	-								
Are Vegetation, Soil, or Hydrology									
SUMMARY OF FINDINGS – Attach site									
	,								
Hydrophytic Vegetation Present? Yes	/ '	s the Sampled Area	,						
Hydric Soil Present? Yes Wetland Hydrology Present? Yes ✓	No No \	within a Wetland? Yes _	No						
Remarks:	110								
Cowardin Code: PEM HGM: slope wetland WT: NRPWW Small depressional wetland created by road compaction / vehicle disturbance. Information listed on this form represents the data collected in 2015. The wetland was revisited on 10/7/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.									
HYDROLOGY									
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface	Surface Soil Cracks (B6)						
Surface Water (A1)	Surface Water (A1) True Aquatic Plants (B14) Spar								
High Water Table (A2)	✓ Hydrogen Sulfide Odor		ge Patterns (B10)						
Saturation (A3)	Oxidized Rhizospheres	•	Trim Lines (B16)						
Water Marks (B1)	Presence of Reduced I		eason Water Table (C2)						
•	Recent Iron Reduction		yfish Burrows (C8)						
Drift Deposits (B3)	Thin Muck Surface (C7		Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Other (Explain in Rema		d or Stressed Plants (D1)						
Iron Deposits (B5)			Geomorphic Position (D2)						
Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9)			Shallow Aquitard (D3)Microtopographic Relief (D4)						
Water-Stained Leaves (B9) Aquatic Fauna (B13)			✓ FAC-Neutral Test (D5)						
Field Observations:		<u> 170 N</u>							
	Depth (inches):								
	Depth (inches):								
	Depth (inches):		Present? Yes ✓ No						
(includes capillary fringe)			Tesent: Tes v No						
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previo	ous inspections), if available:							
Remarks:									
Saturation was present in the upper soil la	aver, however, the sa	uturation was not related to a	a water table and therefore does						
not meet the criteria for a hydrology indica	•								
, , , , , , , , , , , , , , , , , , , ,	3.0								

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

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-B39
201	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
2				,
3				Total Number of Dominant Species Across All Strata: 3 (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: 100 (A/B)
6				Prevalence Index worksheet:
<i>'</i>	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 =
2				FACU species x 4 =
				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/ (1.1.1		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0 Herb Stratum (Plot size: 5')	20% of	total cover		data in Remarks or on a separate sheet)
riors stratam (Fist Size.	8	1	E 4 (C) 4 /	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Carex Iurida	5		F <u>ACW</u>	
2. Scirpus americana			<u>OBL</u>	¹ Indicators of hydric soil and wetland hydrology must
3. Eleocharis obtusa	6		<u>OBL</u>	be present, unless disturbed or problematic.
4. Juncus effusus			F <u>ACW</u>	Definitions of Four Vegetation Strata:
5. Onoclea sensibilis	1		F <u>ACW</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
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:11	20% of	total cover	4.4	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
_		= Total Cov	_	Present? Yes ✓ No
50% of total cover:0	20% of	total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: W-B39

Profile Desc	cription: (Describe to	the dep	th needed to doc	ument the i	ndicator	or confirm	n the absen	ce of indicators.)
Depth	<u>Matrix</u>			dox Feature:	S			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/1	90	10YR 4/6	10	С	M	CL	
3-13	10YR 6/1	25	10YR 5/6	 75	С	M		
	-							
			-					
¹ Type: C=C	oncentration, D=Deple	tion, RM:	=Reduced Matrix,	MS=Masked	l Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Ind	licators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surfa					2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue				, 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)			yed Matrix ((F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted N		-0)			(MLRA 136, 147)
	ick (A10) (LRR N)	(111)		k Surface (F			_/	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11)		Dark Surface pressions (F			<u> </u>	Other (Explain in Remarks)
	Mucky Mineral (S1) (LF	R N.		anese Mass		I RR N.		
	A 147, 148)	CIC IV,	MLRA		C3 (1 12) (LIXIX IV,		
	Gleyed Matrix (S4)			rface (F13) ((MLRA 13	86, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)			Floodplain S				wetland hydrology must be present,
-	Matrix (S6)			t Material (F				unless disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric S	oil Present? Yes <u>√</u> No
Remarks:	· ·							
	lay, likely perching	y water	on top.					

Wetland Photograph Page

Wetland ID W-B39



Photograph Direction NE

Date: 05/03/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 10/07/19

 $\label{eq:comments:2019} \mbox{ Comments: } 2019 \mbox{ wetland delineation confirmation.}$

Project/Site: MVP	City/County: Webste	r	Sampling Date: 05/03/2015			
Applicant/Owner: MVP		State: WV	Sampling Point: W-B39-up			
Investigator(s): E. Foster, K. Lamontagne, C.	. Ansari Section, Township, Ra		_			
Landform (hillslope, terrace, etc.): hillslope	•	~	Slone (%): 3-5			
Subregion (LRR or MLRA): LRRN L	at: 38.508071 Lon	-80.559439	Datum: NAD 83			
Soil Map Unit Name: Pineville-Gilpin-Guyandotte						
			<u> </u>			
Are climatic / hydrologic conditions on the site typica						
Are Vegetation, Soil, or Hydrology		'Normal Circumstances"	oresent? Yes <u>▼</u> No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If ne	eeded, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site	map showing sampling point le	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes	No ✓ Is the Sampled					
Hydric Soil Present? Yes	No. / 15 the Sampled	Area	/			
Wetland Hydrology Present? Yes	No ✓ within a Wetlar	1d? Yes	No <u> </u>			
Remarks:						
Upland						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil	Cracks (B6)			
	True Aquatic Plants (B14)		getated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa				
Saturation (A3)	Oxidized Rhizospheres on Living Root					
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C	•				
Drift Deposits (B3)	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)		tressed Plants (D1) Position (D2)			
Inundation Visible on Aerial Imagery (B7)		•				
Water-Stained Leaves (B9)		Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutra	•			
Field Observations:			· ·			
Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
		etland Hydrology Prese	nt? Yes No✓			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	g well aerial photos, previous inspections) if available:				
Beschibe Recorded Bala (Stream gauge, monitoring	g wen, denai priotos, previous inspections	y, ii avallabic.				
Remarks:						

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

Sampling Point: W-B39-up Dominance Test worksheet:

20'	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')		Species?		Number of Dominant Species
1. Liriodendron tulipifera	25		FACU_	That Are OBL, FACW, or FAC:3 (A)
2. Acer rubrum	10		FAC	Total Number of Dominant
3. Quercus montana	10		<u>UPL</u>	Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:50 (A/B)
6				That Are OBE, I ACW, OF I AC.
7				Prevalence Index worksheet:
<i>1</i>	45	Tatal Car		Total % Cover of: Multiply by:
50% of total cover: _ 22. 5		= Total Cov		OBL species x 1 =
451	<u> </u>	total cover		FACW species x 2 =
Saping/Shrub Stratum (Flot Size)	0	,	E40	
1. Lindera benzoin	3		FAC	· ·
2. Carpinus coroliniana	3		<u> FAC</u>	FACU species x 4 =
3				UPL species x 5 =
4				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
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 3	20% of	total cover	1.2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				·
1. Viola hastata	5		F <u>ACU</u>	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Potentilla simplex	2		F <u>ACU</u>	
3				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
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	7	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:3.5		total cover		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in height.
				neight.
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.)			

Sampling Point: W-B39-up

SOIL

Profile Desc	ription: (Describe	to the depti	n needed to docun	nent the ir	ndicator o	r confirm	the absence	of indicator	s.)		
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	-	Remarks		
0-14	10YR 3/3	100					CL				
14-17	10YR 5/6	60					CL	Dual m	natrix- see	line belov	v
	10YR 5/3	40					CL				
	10111070										
Type: C=Co	oncentration, D=Dep	etion RM=I	Reduced Matrix MS	= S=Masked	Sand Gra	ins	² Location: P	I =Pore Linin	n M=Matrix		
Hydric Soil I		Cuon, ruvi–i	teddeed Width, Wie	- Maskea	Suria Gra			ators for Pro			
Histosol			Dark Surface	(S7)				cm Muck (A	-		
	ipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,		coast Prairie			
Black His			Thin Dark Su				, <u>—</u>	(MLRA 147			
	n Sulfide (A4)		Loamy Gleye				P	edmont Floo		(F19)	
Stratified	l Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136	, 147)		
	ck (A10) (LRR N)		Redox Dark S					ery Shallow			
	l Below Dark Surface	e (A11)	Depleted Dar				c	ther (Explair	n in Remarks	5)	
	rk Surface (A12)		Redox Depre								
	lucky Mineral (S1) (L	.RR N,	Iron-Mangan		s (F12) (L	RR N,					
	147, 148)		MLRA 13	•	MI DA 124	2 122)	3Ind	icators of hy	drophytic vo	actation and	
	leyed Matrix (S4) edox (S5)		Umbric Surfa Piedmont Flo					etland hydrolo			
-	Matrix (S6)		Red Parent N					less disturbe			
	_ayer (if observed):		Red r drene n	iateriai (i z	- I) (IIILIA)	(127, 147	, un	1033 distarbo	a or problem		
Type:											
	ches):		<u> </u>				Hydric Soil	Drocont?	Yes	No_✓	
	<u></u>						Hydric 30ii	rieseiit:	165	_ NO <u>_ v</u>	_
Remarks:											

Project/Site: MVP	City/County: Webster		Sampling Date: 05/01/2015				
Applicant/Owner: MVP			_ Sampling Point: W-B31				
Investigator(s): E. Foster, K. Lamontagne, C. A			_				
Landform (hillslope, terrace, etc.): Valley	•	~	Slope (%):_2				
Subregion (LRR or MLRA): LRRN Lat:			Datum: NAD 83				
Soil Map Unit Name: Philo-Pope complex		NWI classifica					
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology			resent? Yes <u>√</u> No				
Are Vegetation, Soil, or Hydrology		eded, explain any answer					
SUMMARY OF FINDINGS – Attach site m	- '						
Hydrophytic Vegetation Present? Yes ✓	- Is the Sampled A	Area					
Hydric Soil Present? Yes Ves	 	d? Yes <u>√</u>	No				
Wetland Hydrology Present? Yes ✓	No						
Remarks:	DDIA/IA/D						
Cowardin Code: PEM HGM: Riverine WT: F			40/00/2040 Discourse				
Information listed on this form represents the							
of wetland hydrology, hydrophytic vegetatio Supplement delineation methodology.	n, and nydric soils was cominned	d using the USACE	EMP Regional				
HYDROLOGY							
Wetland Hydrology Indicators:			tors (minimum of two required)				
Primary Indicators (minimum of one is required; checi	· · ·		Surface Soil Cracks (B6)				
	True Aquatic Plants (B14)		etated Concave Surface (B8)				
1	Hydrogen Sulfide Odor (C1)	Drainage Pat					
	Oxidized Rhizospheres on Living Roots						
	Presence of Reduced Iron (C4)		Water Table (C2)				
•	Recent Iron Reduction in Tilled Soils (Co		Crayfish Burrows (C8)				
	Thin Muck Surface (C7) Other (Explain in Remarks)		Saturation Visible on Aerial Imagery (C9)Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	Geomorphic					
Inundation Visible on Aerial Imagery (B7)		•					
Water-Stained Leaves (B9)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)		✓ FAC-Neutral					
Field Observations:		<u> </u>	1031 (100)				
Surface Water Present? Yes No	Depth (inches):						
Water Table Present? Yes ✓ No							
1	_	land Hydrology Presen	t? Yes ✓ No				
(includes capillary fringe)		, ,,	t. 163 <u>v</u> 110				
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspections),	if available:					
Remarks:							

0.01	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Free Stratum (Plot size: 30')		Species?	Status	Number of Dominant Species		
Acer rubrum	5	·	FAC	That Are OBL, FACW, or FAC:	4	(A)
				Total Number of Deminant		
l				Total Number of Dominant Species Across All Strata:	5	(B)
						(-)
5				Percent of Dominant Species	75	(A /D)
				That Are OBL, FACW, or FAC:		(A/B)
)				Prevalence Index worksheet:		
·	5			Total % Cover of:	Multiply by:	
50% of total cover: 2.5		= Total Cov		OBL species x 1		
	20% 01	total cover	: <u> </u>	FACW species x 2		
Sapling/Shrub Stratum (Plot size: 15')	6	,	540	I		
Lindera benzoin	6		FAC	FAC species x 3		
				FACU species x 4		
3				UPL species x 5		
l				Column Totals: (A)		_ (B)
i				Drovolones Index D/A		
)				Prevalence Index = B/A = _		
				Hydrophytic Vegetation Indicate		
; ,				1 - Rapid Test for Hydrophytic	c Vegetation	
				✓ 2 - Dominance Test is >50%		
)	6	T-1-1-0		3 - Prevalence Index is ≤3.0 ¹		
50% of total cover: 3		= Total Cover		4 - Morphological Adaptations	s¹ (Provide supp	portino
- 1	20% 01	total cover	:	data in Remarks or on a se	eparate sheet)	
icib Stratum (Flot Size)	40	/	0.01	Problematic Hydrophytic Vegi	etation ¹ (Explain	in)
Carex stricta		· - •	<u>OBL</u>		` '	•
Scirpus americanus	20		<u>QBL</u>	¹ Indicators of hydric soil and wetla	and hydrology m	nust
3. Osmunda cinnamomea	10		FACW_	be present, unless disturbed or pr		iust
Impatiens capensis	2		F <u>ACW</u>	Definitions of Four Vegetation S		
S. Packera aurea	5		FACW_			
S. Onoclea sensibilis	2		FACW_	Tree – Woody plants, excluding vi		
Asclepias incarnata	1		OBL	more in diameter at breast height height.	(DBH), regardie	ess or
3.						
).				Sapling/Shrub – Woody plants, e		
·				than 3 in. DBH and greater than o m) tall.	r equal to 3.28	π (ι
0				,		
11	80			Herb – All herbaceous (non-wood		rdless
500% of total account 40		= Total Cov		of size, and woody plants less tha	n 3.28 ft tall.	
50% of total cover: 40	20% or	total cover	:10	Woody vine – All woody vines gre	eater than 3.28	ft in
Moody Vine Stratum (Plot size: 15')	_	,		height.		
Rosa multiflora	5		<u>FACU</u>			
D						
3						
l <u>. </u>				Lludrophytic		
j,				Hydrophytic Vegetation		
1	5	= Total Cov	- ——— /er	Present? Yes	No	
50% of total cover: <u>2.5</u>		total cover				
		total cover	•——			
Remarks: (Include photo numbers here or on a separate sl	neet.)					

SOIL Sampling Point: W-B31

Profile Des	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absence	e of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-3	10YR 2/2	95	7.5YR 5/8	5	<u>C</u>	M	SiL	
3-20	10YR 4/2	90	7.5YR 5/8	10	С	M	SiL	
¹ Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil			Troubled Industry			4,1,101		eators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		nce (S8) (1	VILRA 147		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				· · · —	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				1	Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da				(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
-	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan		ses (F12) ((LRR N,		
	A 147, 148)		MLRA 13		(B. B. D. A. 4		3,	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5) d Matrix (S6)		Piedmont Florage Parent Med Pa					etland hydrology must be present, nless disturbed or problematic.
	Layer (if observed):		Red Parent is	viateriai (r	ZI) (IVILA	A 127, 14	ui	liess disturbed of problematic.
	-							
J	-l \						I I I I I I I I I I I I I I I I I I I	I Brancoul O. Mar. of No.
Remarks:	ches):						Hyaric Soi	I Present? Yes <u>√</u> No

Wetland Photograph Page

Wetland ID W-B31



Photograph Direction South

Date: 05/01/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 10/07/19

 $\label{eq:comments:comments:} 2019 \ \text{wetland delineation confirmation}.$

Project/Site: MVP	City/County: Webster		Sampling Date: 05/01/2015
Applicant/Owner: MVP			Sampling Point: W-B31-up
Investigator(s): E. Foster, K. Lamontagne,	C. Ansari Section Township Range		<u> </u>
Landform (hillslope, terrace, etc.): valley bottor			Slone (%): 2-3
Subregion (LRR or MLRA): LRRN	Lat: 38.494237 Long:	-80.561131	Datum: NAD 83
Soil Map Unit Name: Philo-Pope complex			
	- 16 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Are climatic / hydrologic conditions on the site typi			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If need	led, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling point loc	ations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No le the Sempled As		
	No. / Is the Sampled Al		No✓
Wetland Hydrology Present? Yes	No ✓ within a Wetland?	Yes	NO <u>*</u>
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)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa	
Saturation (A3)	Oxidized Rhizospheres on Living Roots (0		
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	•	
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)		•	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9) Aquatic Fauna (B13)		FAC-Neutra	aphic Relief (D4)
Field Observations:		1710 1100110	1 1031 (50)
	✓ Depth (inches):		
	Depth (inches):		
		nd Hydrology Prese	nt? Yes No_ ✓
(includes capillary fringe)	·		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if	f available:	
Remarks:			

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

Sampling Point: W-B31-up

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (1 lot size)		Species?		Number of Dominant Species	
1. Acer rubrum			FAC	That Are OBL, FACW, or FAC: 4	(A)
2. Prunus serotina	5		FACU_	Total Number of Dominant	
3. Quercus rubra	10		FACU_	Species Across All Strata: 7	(B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 57	(A/B)
6				mat Are OBL, I ACW, OF FAC.	(A/B)
				Prevalence Index worksheet:	
7	25	Tatal Car		Total % Cover of: Multiply l	by:
50% of total cover: _ 12. 5		= Total Cov		OBL species x 1 =	
4.51	20% OI	total cover		FACW species x 2 =	
<u>Sapility/Stitub Stratuiti</u> (Flot Size)	10	,	E4011	FAC species x 3 =	
1. Eleagnus angustifolia			F <u>ACU</u>		
2. Lindera benzoin	10		F <u>AC</u>	FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A)	(B)
5				December of Index D/A	
6				Prevalence Index = B/A =	
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetat	ion
8				✓ 2 - Dominance Test is >50%	
9			·	3 - Prevalence Index is ≤3.0 ¹	
T00/ C		= Total Cov		4 - Morphological Adaptations ¹ (Providence)	e supporting
50% of total cover: 10	20% of	total cover	:4	data in Remarks or on a separate s	heet)
TIEID Stratum (Flot Size)	_	,		Problematic Hydrophytic Vegetation ¹ (I	1
1. Packera aurea			F <u>ACW</u>	rroblematic riyaropriyae vegetation (t	-xpiairi)
2. Rubus hispidus	3		F <u>ACW</u>	1 and a standard for the standard to standard	
3. Potentilla simplex	5		F <u>ACU</u>	¹ Indicators of hydric soil and wetland hydrobe present, unless disturbed or problematic	logy must
4. Ulmus americana	8	✓	FACW_	Definitions of Four Vegetation Strata:	
5. Viola rostrata	5		FACU	Definitions of Four vegetation strata.	
6. Luzula multiflora	4		F <u>ACU</u>	Tree – Woody plants, excluding vines, 3 in.	
· · · · · · · · · · · · · · · · · · ·				more in diameter at breast height (DBH), re	gardless of
7				height.	
8				Sapling/Shrub – Woody plants, excluding	
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 t	
50% of total cover: <u>16</u>	20% of	total cover	: 6.4	Woody vine – All woody vines greater than	n 3 28 ft in
Woody Vine Stratum (Plot size: 15')				height.	13.20 10 111
1					
2					
3					
4		-			
5		-	·	Hydrophytic Vegetation	
J	0	= Total Cov		Present? Yes Ves No	
50% of total cover:0		total cover	_		
		total cover	·		
Remarks: (Include photo numbers here or on a separate s	neet.)				

Sampling Point: W-B31-up

(in alc 1	Matrix		Redox Features		Demonstra
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc ²	<u>Texture</u> SIL	Remarks
0-5	10YR 4/3				
5-18	10YR 4/6	100		SL	
				_	
		· -			
ype: C=Co	oncentration, D=Dep	letion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: P	L=Pore Lining, M=Matrix.
ydric Soil I	ndicators:			Indic	ators for Problematic Hydric Soils ³ :
_ Histosol	(A1)		Dark Surface (S7)	2	cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14		Coast Prairie Redox (A16)
_ Black His			Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	ck (A10) (LRR N)	o (A11)	Redox Dark Surface (F6)		/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Dark Surface (F7)Redox Depressions (F8)	_ (Other (Explain in Remarks)
	lucky Mineral (S1) (I	DD N	Iron-Manganese Masses (F12) (LRR N,		
	147, 148)	_1(1(14,	MLRA 136)		
	lleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	³ Inc	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA		etland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 127, 1		less disturbed or problematic.
estrictive l	_ayer (if observed):				
Туре:			_		
	ches):			Hydric Soil	Present? Yes No
Depth (inc			-		
-					
= = = = = = = = = = = = = = = = = = = =					
-					
Depth (inc					