

Photograph 365. Stream S076, Upstream, Facing East Northeast



Photograph 366. Stream S076, Downstream, Facing West Southwest





Photograph 367. Stream S077, Upstream, Facing Northwest



Photograph 368. Stream S077, Downstream, Southeast





Photograph 369. Stream S078, Upstream, Facing South



Photograph 370. Stream S078, Downstream, East





Photograph 371. Stream S079, Upstream, Facing South



Photograph 372. Stream S079, Downstream, Facing East





Photograph 373. Stream S080, Upstream, Facing West



Photograph 374. Stream S080, Downstream, Facing East





Photograph 375. Stream S081 (Salt Lick Creek [Little Salt Creek]), Upstream, Facing Northeast



Photograph 376. Stream S081 (Salt Lick Creek [Little Salt Creek]), Downstream, Facing Northwest





Photograph 377. Stream S082, Upstream, Facing Southwest



Photograph 378. Stream S082, Downstream, Facing Northeast





Photograph 379. Stream S083, Upstream, Facing West



Photograph 380. Stream S083, Downstream, Facing East





Photograph 381. Stream S084, Upstream, Facing West



Photograph 382. Stream S084, Downstream, Facing South





Photograph 383. Stream S085, Upstream, Facing West



Photograph 384. Stream S085, Downstream, Facing North





Photograph 385. Stream S086 Upstream, Facing Southwest



Photograph 386. Stream S086, Downstream, Facing North





Photograph 387. Stream S087, Upstream, Facing Northeast



Photograph 388. Stream S087, Downstream, Facing South





Photograph 389. Stream S088, Upstream, Facing East



Photograph 390. Stream S088, Downstream, Facing Northeast





Photograph 391. Stream S089, Upstream, Facing South



Photograph 392. Stream S089, Downstream, Facing North





Photograph 393. Stream S090, Upstream, Facing Southwest



Photograph 394. Stream S090, Downstream, Facing Northeast





Photograph 395. Stream S091, Upstream, Facing Southwest



Photograph 396. Stream S091, Downstream, Facing Northeast





Photograph 397. Stream S092, Upstream, Facing Southwest



Photograph 398. Stream S092, Downstream, Facing North





Photograph 399. Stream S093, Upstream, Facing Southeast



Photograph 400. Stream S093, Downstream, Facing Northwest





Photograph 401. Stream S094 (Salt Lick Creek [Little Salt Creek]), Upstream, Facing East



Photograph 402. Stream S094 (Salt Lick Creek [Little Salt Creek]), Downstream, Facing Southwest





Photograph 403. Stream S095, Upstream, Facing West



Photograph 404. Stream S095, Downstream, Facing East





Photograph 405. Stream S096, Upstream, Facing Northeast



Photograph 406. Stream S096, Downstream, Facing Southwest





Photograph 407. Stream S097, Upstream, Facing East



Photograph 408. Stream S097, Downstream, Facing West





Photograph 409. Stream S098, Upstream, Facing West



Photograph 410. Stream S098, Downstream, Facing East





Photograph 411. Stream S099, Upstream, Facing West



Photograph 412. Stream S099, Downstream, Facing East





Photograph 413. Stream S100, Upstream, Facing South



Photograph 414. Stream S100, Downstream, Facing North





Photograph 415. Stream S101, Upstream, Facing West



Photograph 416. Stream S101, Downstream, Facing East



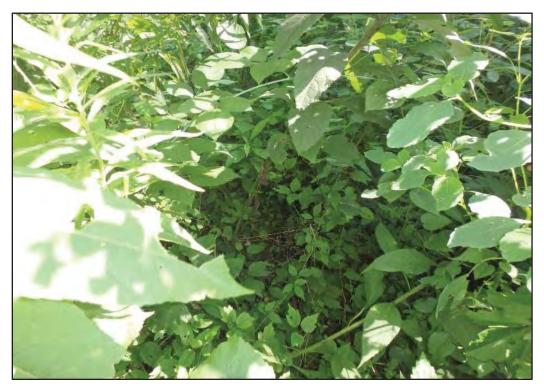


Photograph 417. S102, Upstream, Facing Southeast



Photograph 418. S102, Downstream, Facing Northwest





Photograph 419. Stream S103, Upstream, Southeast



Photograph 420. Stream S103, Downstream, Facing Northeast





Photograph 421. Stream S104, Upstream, Facing Southeast



Photograph 422. Stream S104, Downstream, Facing Northwest





Photograph 423. Representative upland habitat, Facing South



Photograph 424. Representative upland habitat, Facing West





Photograph 425. Representative upland habitat, Facing Northeast



Photograph 426. Representative upland habitat, Facing South





Photograph 427. Representative upland habitat, Facing Southwest



Photograph 428. Representative upland habitat, Facing East





Photograph 429. Representative upland habitat, Facing North



Photograph 430. Representative upland habitat, Facing East





Photograph 431. Representative upland habitat, Southwest



Photograph 432. Representative upland habitat, Facing North





Photograph 433. Representative upland habitat, Facing East



Photograph 434. Representative upland habitat, Facing South





Photograph 435. Representative upland habitat, Facing Northwest



Photograph 436. Representative upland habitat, Facing North



# **APPENDIX B**Wetland Determination Data Forms



voject/Site:	LAND DETERMINATION I		em Mountains and Piedmon	int Region iempling Date: 811617
Applicant/Owner:	Acr	Ony County.	State: 614	Sampling Point:
	STAN INCA	Section Town	nship, Range: no dilal	6. P2 5 5
Landform (hillslope, terrace	I'l nu		A	
시작 시간에 아니라 아니라 시작하다.	1 1 1	the second secon		Slope (%):
Subregion (LRR or MLRA)			Long: -87,7924 .	Datum:
Soil Map Unit Name: Wy		-6-6 510p		
			No (If no, explain in Ren	narks.)
Are Vegetation, Soi	il or Hydrology W s	significantly disturbed?	Are "Normal Circumstances" pre	sent? Yes X No
Are Vegetation, Sol	II _ A , or Hydrology _ A n	naturally problematic?	(If needed, explain any answers	in Remarks.)
SUMMARY OF FIND	DINGS - Attach site map	showing sampling	point locations, transects, i	mportant features, etc.
Hydrophytic Vegetation P Hydric Soil Present? Wetland Hydrology Prese Remarks: Sample Pou	nt? Yes X No	o within	Sampled Area a Wetland?  Yes X  Hock pasture and NOO18-PEM-CAT	
HYDROLOGY	en to wools	FEM CHI	, we cro rem on	IT MODIC-PENK
Wetland Hydrology India	ators:		Secondary Indicator	s (minimum of two required)
Primary Indicators (minimu	um of one is required; check all the	hat apply)	Surface Soil Cra	acks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Water-Stained Leaves Aquatic Fauna (B13)	(2) Hydri Oxidi Press (32) Rece Thin Other	Aquatic Plants (B14) ogen Sulfide Odor (C1) ized Rhizospheres on Livence of Reduced Iron (C4 ent Iron Reduction in Tiller Muck Surface (C7) r (Explain in Remarks)	Drainage Patter ing Roots (C3) Moss Trim Line ) Dry-Season Wa d Soils (C6) Crayfish Burrow Saturation Visib	s (B16) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) d (D3) ic Relief (D4)
Field Observations:		7.00		
Surface Water Present?	Yes X No Dept			
Water Table Present?	Yes X No Dept	th (inches): 0°1	Mrs and And	- 1
Saturation Present?	Yes No Dept	th (inches):	Wetland Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (s	stream gauge, monitoring well, as	erial photos, previous insi	pections), if available:	
NA		production production in the contract of the c	and the second second	
Remarks:				
meets Al,	AZ, 143, DZ 4	D5		
				1

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

Sampling Point: 10061- DEM

	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
				Total Number of Dominant Species Across All Strata:  (B)
None observed.				
7				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
		-		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:	20% o	rtotal cover		FACW species x 2 =
apling/Shrub Stratum (Plot size: 19:15)				FAC species x 3 =
	-			FACU species x 4 =
	-	-	_	UPL species x 5 =
None Observed			_	Column Totals: (A) (B
		_	_	
			-	Prevalence Index = B/A = *
				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
	-			2 - Dominance Test is >50%
	. —	= Total Cov	er	3 - Prevalence Index is ≤3.01
50% of total cover:				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
erb Stratum (Plot size:				data in Remarks or on a separate sheet)
Typhen lutifolies	40	415	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
Persicences andropiner	15	W	FAW	
Eupenerum perfe harterm	-	Na	FAW	¹Indicators of hydric soil and wetland hydrology must
Echinochloa cos-quelli	30	465	FAL	be present, unless disturbed or problematic.
TunenseiAusus	10	01/4	FALW	Definitions of Four Vegetation Strata:
		~	1.1044	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
				m) tall.
				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:50	20% of	total cover:		Woody vine - All woody vines greater than 3.28 ft in
oody Vine Stratum (Plot size:)				height.
<i>**</i>				
Nove disinted			=	
Nove disense		$\equiv$		Hydrophytic
Nove district			$\equiv$	Hydrophytic Vegetation
Nove disking		= Total Cov	er	

D		Parking		
Depth Matrix inches) Color (moist) %	Color (moist)	Features % Type Loc²	Texture	Remarks
		70 6	516	TO HOLKO
0-16 loxn4/1 7		10 10	710	
	LOXA 5/2	10 CM		- 4
	_			
ype: C=Concentration, D=Depletion,	RM=Reduced Matrix, MS=	Masked Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
dric Soil Indicators:				Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (	S7)	2 cm Muc	k (A10) (MLRA 147)
_ Histic Epipedon (A2)		w Surface (S8) <b>(MLRA 147</b> ,		nirie Redox (A16)
Black Histic (A3)		ace (S9) (MLRA 147, 148)		147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed		· ·	Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix			136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Su	rface (F6)	Very Sha	low Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark	Surface (F7)	Other (Ex	plain in Remarks)
_ Thick Dark Surface (A12)	Redox Depress	sions (F8)		
<ul><li>Sandy Mucky Mineral (S1) (LRR N,</li></ul>	Iron-Manganes	e Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)			
Sandy Gleyed Matrix (S4)	Umbric Surface	(F13) (MLRA 136, 122)	3Indicators o	f hydrophytic vegetation and
_ Sandy Redox (S5)	Piedmont Floor	iplain Soils (F19) <b>(MLRA 1</b> 4		drology must be present,
		terial (F21) (MLRA 127, 147	') unless dist	urbed or problematic.
_ Stripped Matrix (S6)	Red Parent Ma			
_ Stripped Matrix (S6) estrictive Layer (if observed):	Red Parent Ma			
	Red Parent Ma			*
estrictive Layer (if observed):	Red Parent Ma		Hydric Soil Presen	7 Yes No
estrictive Layer (if observed): Type;	Red Parent Ma		Hydric Soil Presen	17 Yes No
estrictive Layer (if observed):  Type;  Depth (inches):	Red Parent Ma		Hydric Soil Presen	17 Yes No
estrictive Layer (if observed):  Type;  Depth (inches):  emarks:			Hydric Soil Presen	17 Yes No
Depth (inches):	Red Parent Ma	.γ	Hydric Soil Presen	17 Yes No
estrictive Layer (if observed):  Type;  Depth (inches):  emarks:		.γ	Hydric Soil Presen	17 Yes No
Type;		.X	Hydric Soil Presen	1? Yes No
Type;		.γ	Hydric Soil Presen	1? Yes No
Depth (inches):		Ϋ́	Hydric Soil Presen	17 Yes No
Type; Depth (inches):		.γ.	Hydric Soil Presen	17 Yes No
Depth (inches):		.×	Hydric Soil Presen	17 Yes No
Depth (inches):		.X	Hydric Soil Presen	7 Yes No
Depth (inches):		XX	Hydric Soil Presen	Yes No
Depth (inches):		XX	Hydric Soil Presen	Yes No
Depth (inches):		.γ	Hydric Soil Presen	Yes No
Depth (inches):		×	Hydric Soil Presen	Yes No
Depth (inches):		χ.	Hydric Soil Presen	Yes No
Depth (inches):		χ.	Hydric Soil Presen	Yes No
Depth (inches):		χ.	Hydric Soil Present	Yes No
Depth (inches):		×	Hydric Soil Present	Yes No
Strictive Layer (if observed):  Type;  Depth (inches):  marks:		.X	Hydric Soil Present	17 Yes No
strictive Layer (if observed):  Type;  Depth (inches):  marks:			Hydric Soil Present	17 Yes No
strictive Layer (if observed): Type; Depth (inches): marks:		XX	Hydric Soil Present	Yes No
Depth (inches):			Hydric Soil Present	Yes No

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Ross CC Sampling Date: 81/6 City/County: \_\_\_ Applicant/Owner: Section, Township, Range: NO PLSS Investigator(s): Landform (hillslope, terrace, etc.): \_\_\_ Local relief (concave, convex, none); RRN Lat: 39,235210(0 Long: 82.79245223 Datum: NAIDA Soil Map Unit Name: WHB-WATT SILT LOCK 12-6% Slopes NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soli \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Samph point loute live Stack PASTURE MODIA-PEM-CATI, WOOIB-PEM-CA Servisas a upland 10p to 9 WOOLG-PEIN-CAT HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) \_\_ True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) \_ Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) \_\_ Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Fleid Observations: Surface Water Present? Water Table Present? Saturation Present? No Depth (inches): Wetland Hydrology Present? Yes \_\_\_\_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary and socialized material hydrological indicators

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

Sampling Point: 1000 - UPL

FACU FACU UPL	That Are OBL, FACW, or FAC:
FACU FACU FACU	That Are OBL, FACW, or FAC:
FACU FACU FACU	Total % Cover of:  OBL species  FACW species  FAC species  C  FAC species  C  FACU species  C  FACU species  C  FACU species  C  C  Column Totals:  C  Column Totals:  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.
FACU FACU FACU FACU	FACW species O x 2 = O FAC species O x 3 = C FACU species O x 4 = Z86  UPL species O x 5 = O Column Totals: O (A) Z80 (B)  Prevalence Index = B/A = 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.
FACU FACU FACU FACU	Column Totals: 70 (A) 280 (B)  Prevalence Index = B/A = 4  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.
FACU FACU FACU FACU	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.
FACU FACU FACU FACU	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.
FACU FACU FACU FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACU FACU FACU FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACU	be present, unless disturbed or problematic.
	Definitions of Four Vegetation Strata:
NI-	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.
14	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	Woody vine - All woody vines greater than 3.28 ft in height.
	*
	Hydrophytic Vegetation
	Present? Yes No
	14

the Indicator or confirm the atures  4 Type¹ Loc² T	Sampling Poin absence of indicators.)  Exture Remarks	
atures 6 Type¹ Loc² T	exture Remarks	
6 Type¹ Loc² T	exture Remarks	
		_
sked Sand Grains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Metrix.	
	Indicators for Problematic Hydri	ic Solls
	2 cm Muck (A10) (MLRA 147)	)
urface (S8) (MLRA 147, 148)	Coast Prairie Redox (A16)	•
	(MLRA 147, 148)	
		19)
3)		
e (F6)		F12)
• •		,
•		
,		
3) (MLRA 136, 122)	3Indicators of hydronbytic vegeta	ation and
(12) (112)	ariless distarbed of problematic	
		1
Hyd	dric Soil Present? Yes	No
t :: 2 1	Surface (S8) (MLRA 147, 148) (S9) (MLRA 147, 148) trix (F2) (3) De (F6) face (F7) s (F8) lasses (F12) (LRR N, (13) (MLRA 136, 122) in Soils (F19) (MLRA 148) al (F21) (MLRA 127, 147)	Indicators for Problematic Hydr  2 cm Muck (A10) (MLRA 147 Coast Prairie Redox (A16) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 136, 147) (MLRA 136, 148) (MLRA 136, 142) (MLRA 148) (MLRA 148) (MLRA 136, 147) (MLRA 148) (MLRA 147, 148) (MLRA 148) (MLRA 148) (MLRA 147, 148) (MLRA 148) (MLRA 147, 148) (MLRA 136, 147) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA

State: SH Sampling Point: NO2  State: SH Sampling Point: NO2  P. Range: Not Sivilal by PISS  Convex, none): Cencore Slope (%): 2  Long: -82,7915755 Datum: NAUS  No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  int locations, transects, important features, etc.  Inpled Area  Jetland? Yes No No Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
convex, none):
Long:
No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  int locations, transects, important features, etc.  apled Area letland? Yes No  Secondary Indicators (minimum of two required)
No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  int locations, transects, important features, etc.  intlocations, transects, important features, etc.  Secondary Indicators (minimum of two required)
No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) int locations, transects, important features, etc.  appled Area letland? Yes No  Forg a Sifteran in  Secondary Indicators (minimum of two required)
Are "Normal Circumstances" present? Yes No
(If needed, explain any answers in Remarks.)  int locations, transects, important features, etc.  apled Area  Jetland?  Yes No  FEM RP For NO92 PEM CAT 2  Secondary Indicators (minimum of two required)
int locations, transects, important features, etc.  appled Area  Jetland?  Yes No  Form a Stream in  PEM ap for NO92-PEM-CAT 2  Secondary Indicators (minimum of two required)
spled Area  Jetland?  Yes No  Forg a Stream in  PEM rep to NO92-PEM-CAT 2  Secondary Indicators (minimum of two required)
spled Area  Jetland?  Yes No  Forg a Stream in  PEM rep to NO92-PEM-CAT 2  Secondary Indicators (minimum of two required)
Sparsely Vegetated Concave Surface (B8)
Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2) oils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
A
7/
Wetland Hydrology Present? Yes No No
dons), if available:
irdirators

· Sampling Point: WOO2 - PEM VEGETATION (Four Strata) - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: None Observer Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: = Total Cover **OBL** species \_\_\_\_ x 1 = \_\_ 50% of total cover. 20% of total cover:\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: 15" FAC species \_\_\_\_ × 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_ ×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 = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 20% of total cover. data in Remarks or on a separate sheet) Herb Stratum (Plot size: Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Leesen viransuns <sup>1</sup>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) 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. = Total Cover 50% of total cover: 20% of total cover: \ Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover 50% of total cover: \_\_ 20% of total cover:\_ Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation is dorninant

Profile Description: (Describe to the deproper Matrix (Inches)  Color (moist)  WHL 4/L  TIB  WHL 4/L  LOE  WAR 4//1  LOE		rent the indicate Features		Texture Sit	ndicators.) Remarks
Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):	Dark Surface Polyvalue Bel Thin Dark Sur Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres Iron-Mangane MLRA 136 Umbric Surfac	(S7) ow Surface (Si face (S9) (MLI d Matrix (F2) rix (F3) urface (F6) c Surface (F7) ssions (F8) se Masses (F1	3) (MLRA 147, RA 147, 148) 2) (LRR N, A 136, 122) 19) (MLRA 14	Indicators  2 cm M Coast (ML Piedm (ML Very S Other  3Indicator wetland	ore Lining, M=Matrix. If for Problematic Hydric Soils <sup>3</sup> : Muck (A10) (MLRA 147) Prairie Redox (A16) IRA 147, 148) INDICATE OF THE TRANSPORT OF
Type:	= tal Mothy	0		Hydric Soil Pres	sent? Yes No No
			7.		

WETLAND DETERMINATION DAT	A FORM - Easter	n Mountains and Pledmont Region
Project/Site: Vigo - Pine Zido		
Applicant/Owner: 4E	a chyrodaniy	State: Sampling Point: WXXXX P
Investigator(s): 85M/NG	Section, Townsh	1 1 1 1 0 ==
Landform (hillslope, terrace, etc.):		e, convex, none): Slope (%): 2
	_ Local relief (Concavi	Long: -87,790 9 3 335 Datum: ### 08
Soil Map Unit Name: Wyath silty Clay Inam	12-195/ 5/4	Long Datum:
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes	
Are Vegetation . Soil . or Hydrology . signific	antly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology natura		(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soll Present?  Wetland Hydrology Present?  Yes No No	ls the Sar within a V	mpled Area  Wetland? Yes No
Remarks:	4	f- 1
Sample point lucated an a	terruce o	tong a stream +
Server - D- 1		
serves as a PEM pap	to WOOL	3-PEM-CATI
HYDROLOGY		
Wetland Hydrology Indicators:		Consendant Indicators Indianates of the Consendant Indianates
Primary Indicators (minimum of one is required: check all that ap	nolv)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
	itic Plants (B14)	
	Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
[	Rhizospheres on Living	
	of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron	n Reduction in Tilled Se	
	Surface (C7)	Saturation Visible on Aerial Imagery (C9)
	olain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (inc.  Water Table Present? Yes No Depth (inc.)		
To Deput (inc		V
(includes capillary fringe)		Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspec	tions), if available:
Remarks:		
1000		
NAPOLE DE		
Meets DZ & DG - Z	Scandar	Control by 1. 1.
	econ long i	y indicators
		(1)
/Ac		

Sampling Point: 1003-PEN VEGETATION (Four Strata) - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant (B) Species Across All Strata: 100 Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: = Total Cover OBL species x1= 50% of total cover: 20% of total cover:\_ FACW species x2= Sapling/Shrub Stratum (Plot size:\_\_\_ x3=\_\_\_\_ FAC species ×4=\_\_\_ FACU species UPL species x5=\_\_ Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 = Total Cover 4 - Morphological Adaptations (Provide supporting 20% of total cover: of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: Problematic Hydrophytic Vegetation<sup>1</sup> (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) or more in diameter at breast height (DBH), regardless of Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 Herb - All herbaceous (non-woody) plants, regardless 100 = Total Cover of size, and woody plants less than 3.28 ft tall. 20 50% of total cover: \_\_\_\_\_\_\_ 20% of total cover: Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: \_\_ Hydrophytic Vegetation Present? = Total Cover 50% of total cover: \_ 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.) ophytic vegetation is dominant

,	pth needed to document the indicator or confirm	une absence of indicators.)
Depth Matrix (inches) Color (moist) %  O-4 IOXXXI/7 OC.  4-16 [OXR-S(1 LOC	0011	Texture Remarks  SILL
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N)	EReduced Matrix, MS≃Masked Sand Greins.  Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6)	(MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)
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) Restrictive Layer (if observed):	Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)	
Type:		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Tes - NO

Meets P3 - Depleted Moetrix

Applicant/Owner:	La H Sifty C Lions on the site typical M, or Hydrology M, or Hydrology M GS - Attach site I	Local of January Services of Services Local of Services of Service	relief (concave, co	State: OH Sampling Point: 1004 - Sampling Poi
Hydric Soil Present? Wetland Hydrology Present? Remarks: Sample point 15 a PLM  IYDROLOGY	Yes Yes Yes Yes Yes	No No NO.SH - WOOH-		pust-re L Same
Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeric Water-Stained Leaves (B9) Aquatic Fauna (B13)	of one is required; chec — — — — al Imagery (B7)	True Aquatic Plants Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reducti Recent Iron Reducti Thin Muck Surface of Other (Explain in Re	dor (C1) eres on Living Roc ed Iron (C4) ion in Tilled Soils (C7)	Dry-Season Water Table (C2)
ield Observations: durface Water Present? Vater Table Present? daturation Present? ncludes capillary fringe) escribe Recorded Data (streat	Yes No Yes No Yes No X	Depth (inches):		Vetland Hydrology Present? Yes No
Remarks:	405-	2 Seco	ndour	, ndicators

	That Are OBL, FACW, or FAC: (A)  Total Number of Dominant Species Across All Strata: (B)
===	[ ]
	Topecies Across Air Strata.
	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/I
	Prevalence Index worksheet:
Total Course	Total % Cover of: Multiply by:
	OBL species x 1 =
	FACW species x 2 =
	FAC species x 3 =
	FACU species x 4 =
	UPL species x5 =
	Column Totals: (A) (B
=	Prevalence Index = B/A =
	Hydrophytic Vegetation indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
= Total Cover	3 - Prevalence Index is ≤3.01
20% of total cover:	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
11	Problematic Hydrophytic Vegetation¹ (Explain)
	Problematic Hydrophytic Vegetation (Explain)
85 85 HALW	<sup>1</sup> 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) of
	more in diameter at breast height (DBH), regardless of height.
بحدر تحدد حدد	Sapling/Shrub - Woody plants, excluding vines, less
	than 3 in. DBH and greater than or equal to 3.28 ft (1
	m) tall.
1125	Herb - All herbaceous (non-woody) plants, regardles
20% of total cover	of size, and woody plants less than 3.28 ft tall.
2070 01 10101 001012 0	Woody vine - All woody vines greater than 3.28 ft in
	height.
	Hydrophytic
	Vegetation
= Total Cover	Present? Yes No
_ 20% of total cover:eet.)	
	= Total Cover20% of total cover:

epth	Matrix (malet)	D/	Calanta	int)	Features %	Type'	Loc2	Texture	Remarks
nches)	Color (moist)	- %	Color (mo	Stj		Type	LOC	.C.F	
0-3	1048 4/1	100	- Wa 140 A	11.	-	-	140	11-1	-
2-16	104RGIZ	- 00	19 TR	1/6	10		10	31,00	
								-	
		_			-				
	_	-			_	_	_		***************************************
		-					_		•
				_			_		THE WORLD
	oncentration, D=Dej	oletion, RM	=Reduced Ma	trix, MS	=Masked	Sand Gra	ins.	*Location: PL	_=Pore Lining, M=Matrix. stors for Problematic Hydric Solis <sup>3</sup> :
dric Soil	Indicators:								
Histosol	(A1)			Surface					cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)				low Surface	The state of the s		148) _ C	oast Prairie Redox (A16)
Black H	istic (A3)				rface (S9)		47, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy	Gleye	d Matrix (I	F2)		Pi	iedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Deplet	ted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox	Dark S	Surface (F	6)			ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Deplet	ted Dar	k Surface	(F7)		_ 0	ther (Explain in Remarks)
		1334 17.2	Doday	Depre	ssions (F8	3)			
7	ark Surface (A12)		Legun						
Thick Da	ark Surface (A12) Mucky Mineral (S1) (	LRR N.				s (F12) (I	LRR N,		
Thick Da	Mucky Mineral (S1) (	LRR N,	Iron-M	langane	ese Masse	es (F12) (I	LRR N,		
Thick Da Sandy N MLRA	Mucky Mineral (S1) ( A 147, 148)	LRR N,	Iron-M	langane RA 136	ese Masse 6)			<sup>3</sup> Indi	icators of hydrophytic vegetation and
Sandy N Sandy N MLR/ Sandy C	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4)	LRR N,	Iron-M ML Umbri	RA 136	ese Masse 6) ce (F13) (l	MLRA 13	6, 122)		icators of hydrophytic vegetation and
Sandy MLRA Sandy G Sandy G Sandy R	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5)	LRR N,	Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we	tland hydrology must be present,
Sandy N Sandy N Sandy S Sandy S Stripped	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we	
Sandy MLRA Sandy G Sandy G Sandy F Stripped strictive I	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we	tland hydrology must be present,
Sandy MLRA Sandy G Sandy G Sandy G Sandy G Stripped strictive I Type:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLR/ Sandy G Sandy F Stripped strictive I Type: Depth (in	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLR/ Sandy G Sandy F Stripped strictive I Type: Depth (in	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLR/ Sandy G Sandy F Stripped strictive I Type:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbrid Piedm	RA 136 c Surfacent Flori	ese Masse 6) ce (F13) (l odplain Sc	MLRA 13 oils (F19)	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLRA Sandy G Sandy F Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLRA Sandy G Sandy F Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLRA Sandy G Sandy F Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy M MLRA Sandy G Sandy F Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, less disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, ess disturbed or problematic.
Thick Day Sandy M MLRA Sandy G Sandy G Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, less disturbed or problematic.
Thick Da Sandy N MLRA Sandy G Sandy R Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, less disturbed or problematic.
Thick Da Sandy M MLRA Sandy G Sandy F Stripped strictive I Type: Depth (incomarks:	Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed)		Iron-M ML Umbri Piedm Red P	langane RA 136 c Surfa cont Flo arent M	ese Masse 5) ce (F13) (l odplain So laterial (F:	MLRA 13 bils (F19) 21) (MLR	6, 122) (MLRA 14	48) we 7) . unl	tland hydrology must be present, less disturbed or problematic.

WETLAND DETERMINATION DA	TA FORM – Eastern Mou	ntains and Piedmont	Region
Project/Site: Vigo - Pine Ridge	City/County: 2.05	ison Twp Sai	mpling Date: 8/16/17
Applicant/Owner: AEP			Sampling Point: WYOZ, WC
	Section, Township, Rang		46004-01
Landform (hillslope, terrace, etc.): Tex race			Slope (%):
Subregion (LRR or MLRA): LQQ \ \ \ \ Lat: 39			
Soil Map Unit Name: Wyatt Sitt loavn 17-18 7		NWI classification	the same of the sa
Are climatic / hydrologic conditions on the site typical for this ti			and the second second second
Are Vegetation, Soil, or Hydrology sign		ormal Circumstances" prese	
Are Vegetation <u>/ / /</u> , Soll <u>/ / /</u> , or Hydrology <u>/ / /</u> nati		ded, explain any answers in	
SUMMARY OF FINDINGS – Attach site map sh	lowing sampling point lo	cations, transects, in	portant features, etc.
Hydrophytic Vegetation Present? YesNo_ Hydric Soil Present? YesNo_ Wetland Hydrology Present? YesNo_	within a Wetland	? Yes	No <u>X</u>
Remarks:	2 - 110 / Comme	O DOLLAINO S	+ 901 405 5LS
Remarks: Sample foint is beated in an	-CATO 111/253	PEM-CATI	
upland rep. TO WOOZ-DEM	C1114, MD03.	LEINI-5 14 1 1	4
WOOH-PEM-CATI			
ANTICL AND CALLED			
HYDROLOGY			
Wetland Hydrology Indicators:	2577	Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check all that	A STATE OF THE PARTY OF THE PAR	Surface Soll Crac	
	quatic Plants (B14)		ed Concave Surface (B8)
	en Sulfide Odor (C1)	Drainage Pattern	
	ed Rhizospheres on Living Roots		
	ce of Reduced Iron (C4)	Dry-Season Water	
	Iron Reduction in Tilled Solls (C6		A ST AND THE RESERVE AND ADDRESS OF THE RESERVE
	uck Surface (C7)		e on Aerial Imagery (C9)
	Explain in Remarks)	Stunted or Stress	THE PROPERTY OF THE PARTY OF TH
Iron Deposits (B5)		Geomorphic Pos	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard	
Water-Stained Leaves (B9)		Microtopographic	
Aquatic Fauna (B13)		FAC-Neutral Tes	T (D5)
Field Observations:	houses		
Surface Water Present? Yes No Depth			
Water Table Present? Yes No Depth	P 111 / P 1		v
Saturation Present? Yes No Depth (includes capillary fringe)	(inches): Wetla	and Hydrology Present?	Yes NoX
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous Inspections),	If available:	
Remarks:			
		12. 1	L. M.
No Dimary or Secon	ident Moticing	Mydrology	Maicators
	A STATE OF THE STA		41.50.50.40.50.4
were observed			
			All

7 2 2 2	Absolute			Dominance Test worksheet:	
ree Stratum (Plot size: 30 (2 )	% Cover	Species?		Number of Dominant Species	
Jugans niga	10	4	FACU	That Are OBL, FACW, or FAC: (A)	
200 inia ospinacacia	15	(i	FACO	Total Number of Descious	
				Total Number of Dominant Species Across All Strata: (B)	
			_	Species Across All Sirals. (D)	
		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 28  (A/B)	
		_	-	That Are OBL, FACW, or FAC: (A/B)	
		-		Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
	25	= Total Co			
50% of total cover:	20% of	total cover	5	OBL species x1 =	
pling/Shrub Stratum (Plot size: 15 2				FACW species x 2 =	
Rhus +4 Onina #	30	4	UPL	FAC species 45 x3 = 135	
Posa multifica	10	V	FACU	FACU species 93 x4=372	
		-	-	UPL species 30 x 5 = 150	
	_	_		Column Totals: 108 (A) 057 (B)	
	_		-		
				Prevalence Index = B/A = 3.91	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				(H. Tan Tan Maring Mar	
				2 - Dominance Test is >50%	
	40	= Total Cov	/er	3 - Prevalence Index is ≤3.0¹	
50% of total cover: 20	20% of	total cover	. 8	4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
erb Stratum (Plot size: 5 2 )	20/001	iolal cover		data in Remarks or on a separate sheet)	
		N	TIME	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Phytoloca americana	15	N	FACU		
Verbestna alternitalia	10	N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
MICHORAGIUM VIMINEUM	20	4	FAC	be present, unless disturbed or problematic.	
middlium pratense	8	N	FIACU	Definitions of Four Vegetation Strata:	
Innicera japonica	15	Y	FAC	Definitions of Four Vegetation Strate.	
Taraxacim Officinale	5	N	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or	
Oxalis Stricta	5	N	PACU	more in diameter at breast height (DBH), regardless of	
	30	1		helght.	
Bactylis glornerata	_50	_1_	FALU	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	
	103.	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 52	20% of	total cover	:21		
oody Vine Stratum (Plot size: 30 12 )				Woody vine – All woody vines greater than 3,28 ft in	
, , , , , , , , , , , , , , , , , , , ,				height.	
NOTE OVERVOR					
1000			-		
		-			
				Hydrophytic	
				Vegetation	
		= Total Cov	ver	Present? Yes No X	
50% of total cover:	20% of	total cover			
marks: (Include photo numbers here or on a senarate	shoot )				
NOT LISTED IN NWPL SO	3 nes	una	JU P	or regional Supplem	
LOOM LIQUEST IN LAWY & DE		~ 4 A Ken		~ /	

Sampling Point: 412041-UPL

Profile Des Depth	cription: (Describe to	o the depth				or confirm	the absence	of indicators.)	
(inches)	Matrix Color (moist)	_ %	Color (moist)	x Features		_Loc <sup>2</sup>	Texture	Remarks	
0-4	10/12/1/3	100					SiL		
4-110	10:12 5/4	100					Sil		
	7						_	-	
				_	_	_		-	
_				$\overline{}$	_	-			
				_	_				
		ترانست		_					
Type: C=C	concentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
	Indicators:		77 15-77					ators for Problematic Hydric S	ioils <sup>3</sup> :
_ Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)	
	plpedon (A2)		Polyvalue Be				148) _ (	Coast Prairie Redox (A16)	
	listic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye			47, 148)		(MLRA 147, 148) Piedmont Floodplain Solls (F19)	
	d Layers (A5)		Depleted Mail	and the same of th	2)			(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark S		6)		_ \	/ery Shallow Dark Surface (TF12	2)
	d Below Dark Surface	(A11)	Depleted Dar				(	Other (Explain in Remarks)	
	ark Surface (A12)	D 11	Redox Depre			. DD N			
	Mucky Mineral (S1) (LF A 147, 148)	RK N,	Iron-Mangane MLRA 130		es (F12) (	LRR N.			
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	3Inc	dicators of hydrophytic vegetation	and
	Redox (S5)		Pledmont Flo					etland hydrology must be present	
	d Matrix (S6)		Red Parent N	Material (F.	21) (MLR	A 127, 147	) un	less disturbed or problematic.	
	Layer (if observed):								
Type:	4. v. V		-				20.00		
Depth (in	ches):		-				Hydric Soil	Present? Yes No	<u>X</u>
Remarks:									
W.	ion mide		21:22						
11	ion which	16	20112						

WETLAND DETERMINAT	FION DATA FORM - Eastern Mo	ountains and Piedmont Region
Project/Site: Vigo - Pine 2	City/County:	Sampling Date: 816/17
Applicant/Owner:	) and a second of	State: OF Sampling Point: 1005
	Section, Township, Ra	A 1 1
invocagator(c).	Cooking Township T	
		vex, none): Stope (%): 23
11 0		11. 16
Soil Map Unit Name: Hayman Sil		
Are climatic / hydrologic conditions on the site typics		
Are Vegetation, Soft, or Hydrology		"Normal Circumstances" present? Yes, No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Sowyth Apart books	No Is the Sampled within a Wetlar	V
		ep to WOOS-PEMI-CATMO
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)
Surface Water (A1)	_ True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction In Tilled Soils (C	C6) Crayfish Burrows (C8)
Drift Deposits (B3)	_ Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (85)		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:	2.81	
Surface Water Present? Yes No	Depth (inches):	
water rable Present? Yes No _x_	Depth (inches):	
Saturation Present? Yes No No	Depth (inches): Wet	tland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections)	), if available:
Remarks:		
00-10		
Meets A1, 138, 4	52	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: 10005 - PEN Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_ % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: (B) Non Observed Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_ 50% of total cover: 20% of total cover:\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_ Sapling/Shrub Stratum (Plot size:\_ FAC species \_\_\_\_\_ x 3 = \_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Nove Ocenet Prevalence Index = B/A = \_\_\_\_\_ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ \_ = Total Cover 4 - Morphological Adaptations (Provide supporting of total cover: 20% of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: \_ Problematic Hydrophytic Vegetation<sup>1</sup> (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 65 = Total Cover of size, and woody plants less than 3.28 ft tall. 50% of total cover: 33.5 20% of total cover: 13 Woody Vine Stratum (Plot size: 32 (R) Woody vine - All woody vines greater than 3.28 ft in Hydrophytic Vegetation Yes \_\_ No \_\_\_\_ Present? = Total Cover 50% of total cover: 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic veretation is dominant

	e depth needed to document the Indicator or confirm the absence of indicators.)	
Depth Matrix (inches) Color (molet) %	Redox Features Color (moist) % Type¹ Loc² Texture Re	marks
0-46 NA/ 9	0 10 KR 9/4 10 CM SICK	
- N.C.		
· 64		
Cupe: CuConcentration D=Depletion	RM=Reduced Matrix, MS=Masked Sand Grains.   *Location: PL=Pore Lining, M=	0.00
ydric Soil Indicators:	RM=Reduced Matrix, MS=Masked Sand Grains.   *Location: PL=Pore Lining, M= Indicators for Problem	
Histosol (A1)	Dark Surface (S7) 2 cm Muck (A10) (M	
Histic Epipedon (A2) Black Histic (A3)	Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redo:	
Black Histic (A3) Hydrogen Sulfide (A4)	Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148)  Loamy Gleyed Matrix (F2) Piedmont Floodplai	
Stratified Layers (A5)	Depleted Matrix (F3) (MLRA 136, 147)	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6) Very Shallow Dark S	
<ul><li>Depleted Below Dark Surface (A11)</li><li>Thick Dark Surface (A12)</li></ul>	) Depleted Dark Surface (F7) Other (Explain in Re Other (Ex	emarks)
Sandy Mucky Mineral (S1) (LRR N,		
MLRA 147, 148)	MLRA 136)	
_ Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)   3Indicators of hydrophy	
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology me Red Parent Material (F21) (MLRA 127, 147) unless disturbed or p	
lestrictive Layer (if observed):	Too Falent Material (F21) (Microx 121, 141) unless disturbed of p	robiematic.
control of the party sault		
Type:		
	Hydric Soil Present? Yes	× No
Type: Depth (inches):	Hydric Soil Present? Yes	× No
Type: Depth (inches):	Hydric Soil Present? Yes	× No
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks:	Hydric Soil Present? Yes.  - Loanny Gleyed Matrix 4F3 - Deplet	
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks:		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks;		
Type: Depth (inches): emarks:		

Applicant/Owner:  investigator(s):  Landform (hillslope, terrace, etc.):  Subregion (LRR or MLRA):  Soil Map Unit Name:  Are climatic / hydrologic conditions on the site to Are Vegetation  Are Vegetation  Soil  Or Hydrologic Are Vegetation  Soil  Or Hydrologic Are Vegetation  Soil  Or Hydrologic Are Vegetation  Are Vegetation  Soil  Or Hydrologic Are Vegetation	City/County  City/County  City/County  Cocal relief (cocal cocal c	State: Sampling Date: W/ND/D  State: Sampling Point: NODG  Concave, convex, none): Concave Slope (%): D  Long: 82.78693 Datum: NADE  Mo (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No
Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Scumple point locate	X No Is the within	(If needed, explain any answers in Remarks.)  If point locations, transects, important features, etc.  If sampled Area in a Wetland?  Yes X No  No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:	check all that apply)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tiller  Thin Muck Surface (C7)  Other (Explain in Remarks)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Ving Roots (C3) Moss Trim Lines (B16)
	Depth (Inches): Definition of the province of	Wetland Hydrology Present? Yes No ections), if available:

Tree Stratum (Plot size: 30 1/6)	Absolute Dominant Indicate	Danie and Total model and
	% Cover Species? Status	
2		That Ale Obe, I AOV, OT AO.
3. /		Total Number of Dominant
4. None observed		Species Across All Strata: (B)
		Percent of Dominant Species That Are ORL FACW or FAC: (A/R)
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		
	= Total Cover	
	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 1516)		FACW species x 2 =
1		FAC species x 3 =
2		FACU species x 4 =
3.		UPL species x 5 =
1.		Column Totals: (A) (B)
5. None observed		
		Prevalence Index = B/A =
*		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
·		- Z 2 - Dominance Test is >50%
3,		3 - Prevalence Index is ≤3.01
	= Total Cover	4 - Morphological Adaptations¹ (Provide supporting
	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)		5 th 6 th t 1 th 1 th 1 th 1 th 1 th 1
Importens capensis	80 165 FAU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Lauren Videniane	IS NO FACE	
Carex Conth	LO No OB	Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		- Definitions of Four Vegetation Strata:
		이 뒤를 하는 아이들의 가는 살이 하는 것이 하는 것이 하는데 하는데 그렇게 되었다.
		Tree - Woody plants excluding vines 3 in (7.6 cm) or
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
		more in diameter at breast height (DBH), regardless of height.
\		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
		more in diameter at breast height (DBH), regardless of height.
0:		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.
0:		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
0		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.
0:		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
5		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.
5		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
50% of total cover: 50.5  Voody Vine Stratum (Plot size: 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		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
5		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
5		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.
5		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
5		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.

		to the dept				or confin	m the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature		1 2	5 4n.5 1 - 1 - 2 - 2
G-Z	WHITE	100	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture Remarks
5-10	1000 A/1		IN SIA	-70	-	- 14	5.5
-11		80	10m 5/4	50		1	316
10-16.	LOYRSIZ	95	10xR4K	5	E	M	s,a_
					-	$\equiv$	
		_					
Hydric Soil I	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS=	Masked	Sand Gra	ins.	2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Black His Hydrogei Stratified 2 cm Mu Depleted Thick Da Sandy M MLRA Sandy Gi	ipedon (A2)		Dark Surface ( Polyvalue Beio Thin Dark Surf Loamy Gleyed Depleted Matri Redox Dark Sc Depleted Dark Redox Depress Iron-Manganes MLRA 136) Umbric Surface Piedmont Floor	w Surface (S9) Matrix (F3) urface (F6) Surface (F8) ie Masse	(MLRA 1 6) (F7) ) s (F12) (L	47, 148) .RR N, 6, 122)	2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma				
	ayer (if observed):						/
Type:			-				X
Depth (incl	nes):						Hydric Soil Present? Yes No
temarks:							

Mcets F2 - Loamy Citeyed Matrx

Applicant/Owner:  Investigator(s):  Landform (hillslope, terrace, etc.):  Subregion (LRR or MLRA):  Soil Map Unit Name:  Hey poont  Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation  Are Vegetation  Soil M or Hydrology N significant Are Vegetation  Soil M or Hydrology N naturally  SUMMARY OF FINDINGS – Attach site map showless	year? Yes X No (If no, explain in Remarks.)  Ity disturbed? Are "Normal Circumstances" present? Yes X No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks: Sumple Point located in an	Hoodplass rallex + serves as
High Water Table (A2) Saturation (A3) Oxidized Rhiz Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Plants (B14) Sparsely Vegetated Conceve Surface (B8)  Iffide Odor (C1) Drainage Patterns (B10)  Zospheres on Living Roots (C3) Moss Trim Lines (B16)  Reduced Iron (C4) Dry-Season Water Table (C2)  Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Field Observations:  Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho	s): Wetland Hydrology Present? Yes No
Meets 1310, D2 a D5	

### Sampling Point: WOOT-PEM VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_ 50% of total gover: \_\_\_\_ 20% of total cover: FACW species \_\_\_\_ x 2 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_ ×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 = Total Cover 4 - Morphological Adaptations1 (Provide supporting 50% of total cover: 20% of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: Problematic Hydrophytic Vegetation (Explain) IND FACU FAL Indicators of hydric soil and wetland hydrology must FACW WU 10 be present, unless disturbed or problematic. 405 25 082 Definitions of Four Vegetation Strata: No FAL Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or FAL 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 Herb - All herbaceous (non-woody) plants, regardless 105 = Total Cover of size, and woody plants less than 3.28 ft tall. \_ 20% of total cover: 21 50% of total cover: 57.5 Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: JOR) height. Hydrophytic Vegetation Present? = Total Cover 50% of total cover: 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic regetation is dominant

Depth	Profile Description: (Describe to the depth needed to document the indicator or co Depth Matrix Redox Features					4, 420,00	1	•	
(inches)	Color (moist)	_ %	Color (n	noist)	%	Type	Loc²	Texture	Remarks
0-16,	10 XX 5/2	90			(0	<u>c</u>	ar	SACC	
<sup>1</sup> Type: C=Co Hydric Soil Ir	ncentration, D=Deple	tion, RM=	Reduced M	atrix, MS	=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Histosol (			Poly	Dark Sur	(S7) low Surfac rface (S9)			7.0	Icators for Problematic Hydric Solis <sup>3</sup> ; 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148)
Hydrogen Stratified 2 cm Muc Depleted Thick Dar Sandy Mu MLRA	s Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface ( kk Surface (A12) ucky Mineral (S1) (LR 147, 148)		Loam Deple Redo Redo Iron-M	eted Mate x Dark S eted Dark x Depres Mangane -RA 136	d Matrix (F rix (F3) Surface (F6 k Surface ( ssions (F8) ese Masses	(2) (F7) ) s (F12) (L			Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydrogen Stratified 2 cm Muc Depleted Thick Dan Sandy Mu MLRA Sandy Gle Sandy Re Stripped M	Layers (A5) ck (A10) (LRR N) Below Dark Surface ( k Surface (A12) cky Mineral (S1) (LR 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6)		Loam Deple Redo Redo Iron-M Umbr	eted Mate x Dark Seted Dark x Depress Mangane -RA 136 ic Surface nont Floor	d Matrix (F rix (F3) Surface (F6 k Surface ( ssions (F8) ese Masses	(2) (F7) () (5) (F12) (L (LRA 136) (IS (F19) (I	, 122) MLRA 14		Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  adicators of hydrophytic vegetation and vetland hydrology must be present,
Hydrogen Stratified 2 cm Muc Depleted Thick Dar Sandy Mu MLRA Sandy Gle Sandy Re Stripped M Restrictiva La	Layers (A5) ck (A10) (LRR N) Below Dark Surface ( ck Surface (A12) cky Mineral (S1) (LR 147, 148) eyed Matrix (S4) dox (S5)		Loam Deple Redo Redo Iron-M Umbr	eted Mate x Dark Seted Dark x Depress Mangane -RA 136 ic Surface nont Floor	d Matrix (F rix (F3) Surface (F6 k Surface ( ssions (F8) se Masses i) ce (F13) (N odplain Soi	(2) (F7) () (5) (F12) (L (LRA 136) (IS (F19) (I	, 122) MLRA 14		Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydrogen Stratified 2 cm Muc Depleted Thick Dan Sandy Mu MLRA Sandy Gle Sandy Re Stripped M	Layers (A5) kk (A10) (LRR N) Below Dark Surface (kk Surface (A12) icky Mineral (S1) (LR 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) iyer (if observed):		Loam Deple Redo Redo Iron-M Umbr	eted Mate x Dark Seted Dark x Depress Mangane -RA 136 ic Surface nont Floor	d Matrix (F rix (F3) Surface (F6 k Surface ( ssions (F8) se Masses i) ce (F13) (N odplain Soi	(2) (F7) () (5) (F12) (L (LRA 136) (IS (F19) (I	, 122) MLRA 14		Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  adicators of hydrophytic vegetation and vetland hydrology must be present,

Meets F3 - Depleted Matrix

Project/Site: Vigo -	DETERMINATION DATA		n Mountains and Pie Ross Cc	edmont Region Sampling Date: 816/17
Applicant/Owner:	AEP		State:	Sampling Point: W005
Investigator(s):	Born /NGP	Section, Townsh	ip, Range: NO PLS	
Landform (hillslope, terrace, etc.	10.00	Local relief (concave		July Slope (%):_5
Subregion (LRR or MLRA):	1 0 0	231889	Long: -82.7886	
Soil Map Unit Name: Hd - H	1	n, occasional	011	ssification:
	ns on the site typical for this time		No (If no, explain	7,117,711,117
	, or Hydrology V signification	The second secon		X
			Are "Normal Circumstance	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
	, or Hydrology naturall		(If needed, explain any ar	
SUMMARY OF FINDING	S - Attach site map show	ving sampling po	int locations, transe	ects, important features, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks: Sample Point	Yes No X Yes No X	upland a	<b>D</b>	lain/cattle - DEM-CATMOD2
HYDROLOGY		1000	WOO	7 PEM-CATI
Wetland Hydrology Indicators	:		Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of	one is required; check all that app	ply)	Surface	Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Water-Stained Leaves (B9) Aquatic Fauna (B13)	Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck: Other (Expl	tic Plants (B14) Sulfide Odor (C1) hizospheres on Living of Reduced Iron (C4) n Reduction in Tilled S Surface (C7) lain in Remarks)	Drainage Roots (C3) Moss Tri Dry-Seasolis (C6) Crayfish Saturation Stunted of Geomory Shallow Microtopy	r Vegetated Concave Surface (B8) a Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) Aquitard (D3) ographic Relief (D4) stral Test (D5)
Field Observations:	Carl 2 / A & 10 1 C	Name of the last		
	Yes No Depth (incl			
Water Table Present?	Yes No Depth (incl		MARLON NAMES OF ACCUSES OF	V
Saturation Present? (includes capillary fringe)	Yes No M Depth (incl	hes):	Wetland Hydrology Pre	sent? Yes No
	n gauge, monitoring well, aerial pl	hotos, previous inspec	tions), if available:	
Remarks:				
	- 1 secondary v	revealex de	es not mea	t criteria fer

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

Sampling Point: 4005 + UPL

Tree Stratum (Plot size: 30 1)	Absolute Dominant Indicator	
Tree Stratum (Plot size;	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. None Observed		Total Number of Dominant
4		Species Across All Strata: [B]
5		Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
7.		Prevalence Index worksheet:
,	= Total Cover _	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL speciesO x1=_O
Sapling/Shrub Stratum (Plot size: 16'/	- V The	FACW species 10 x 2 = 70
1. Publis allesteriensis	30 Y FACE	
2 Posa multiflura	Ze Y FACU	1
3		145
4		
5 6		Prevalence Index = B/A = 3,44
7		Hydrophytic Vegetation Indicators:
8		1 - Rapid Test for Hydrophytic Vegetation
9		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01
	56 = Total Cover	3 - Prevalence Index is \$3.0" 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 29	20% of total cover: (O	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5/12)	35 Y. FAC	Problematic Hydrophytic Vegetation¹ (Explain)
1. Nieve Stogium Luminum		
2. Imputions capeusis	10 N FACW	¹Indicators of hydric soil and wetland hydrology must
3. Linicea Jeponica	13 N FAC	be present, unless disturbed or problematic.
4. Verbesima all'tom talien	10 N FAC	Definitions of Four Vegetation Strata:
5 Solamon revolunce	N FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Titolium repens	ZO Y FACU	more in diameter at breast height (DBH), regardless of 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	95 = Total Cover	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 48	20% of total cover: 10	
Woody Vine Stratum (Plot size:ろ) ん)		Woody vine – All woody vines greater than 3.28 ft in height.
		negri
None Observal		
		Hydrophytic
		Vegetation
50% of total cover:	= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate sh		
Upland veyesation is	4 Minarian	
at mill restance!	- IIII	
		14 (1
		1111

Sampling Point: 4W007-UPL

epth	Matrix Color (moist)					or confirm	n the absence	OI III III III II		
-1				x Features		12	Taxabas		Damad	
2-10-		106	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>		-	Remark	\$
2-16 2-16 ————————————————————————————————————	10115	100		_	-	_	SiL		_	
216 - 	101145	100					SIL			
	10XR 5/4	100					SICE			
		-		_		_		_		
		_	7	_						
					_			-		
me: C=Conc	centration, D=Dep	letion, RM=F	Reduced Matrix: M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: Pl	L=Pore Link	ng, M=Metr	ix.
dric Soil Ind		oboli ili	icoscos mening in	- INGONOS	20.10					Hydric Solls3:
Histosol (A	1)		Dark Surface	(S7)			2	cm Muck (A	10) (MLRA	147)
Histic Epipe			Polyvalue Be		ce (S8) (N	LRA 147,		oast Prairie		
Black Histic	7 50 - 70 - 10		Thin Dark St					(MLRA 14		
Hydrogen S	and the second s		Loamy Gleye				P	iedmont Flo	odplain Soi	ls (F19)
Stratified La			Depleted Ma				000	(MLRA 13	6, 147)	
	(A10) (LRR N)		Redox Dark		6)		v	ery Shallow	Dark Surfa	ce (TF12)
	elow Dark Surface	a (A11)	Depleted Da				_ 0	ther (Explai	n in Remar	ks)
Thick Dark	Surface (A12)		Redox Depre	essions (F8	3)					
Sandy Much	ky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	RR N,				
MLRA 14			MLRA 13	Contract of the last of the la			130			
	ved Matrix (S4)		Umbric Surfa	- 10.4		Total Control of the				egetation and
Sandy Redo			Piedmont Flo	A SECTION OF THE PROPERTY OF T				tland hydrol		
Stripped Ma		-	Red Parent N	Material (F2	21) (MLR	A 127, 147	) uni	ess disturbe	ed or proble	matic.
	er (if observed):									()
Type:			-				Market a Ball	0	V	
Depth (inches	s):		<del>-</del> 6				Hydric Soil	Present?	Yes	_ No
marks:										
				1.0						

				ntains and Piedmont Region
Project/Site:	rigo - F	ine Ridge	City/County:	Sampling Date 20116/17
Applicant/Owner:	WA CAL	TEP.		State: OH Sampling Point: WOOD
Investigator(s):	V 3 10. 11	NGF	Section, Township, Rang	e: not lividal by PLSS
Landform (hillslope, terrace	A	//		x, none): Concert Slope (%): 2
Subregion (LRR or MLRA):	LENN	Lat: 39.22"	76745 Long:	-87.78488457 Detum: MAD83
Soil Map Unit Name: W	call silty	day loan.	12-18 % Stop	NWI classification:
				(If no, explain in Remarks.)
Are Vegetation N Soll	_A, or Hydrolo	gy A significantly		ormal Circumstances" present? Yes 🚜 No
Are Vegetation N., Soil		gy		led, explain any answers in Remarks.)
GOMMANT OF THE	1195 - Attach	aire map anowing	sampling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Pro	esent? Yes	X No		
Hydric Soil Present?	Yes	No	Is the Sampled Ar	
Wetland Hydrology Presen Remarks:	t? Yes,	No_	Widin a Wedalid	Tes_No
Marian Maria				renu-cat 2
HYDROLOGY				
Wetland Hydrology Indica	itors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum	n of one is required	: check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plan	nts (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide	THE PART OF THE PARTY OF THE PA	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizosp	heres on Living Roots (C	C3) Moss Trim Lines (B16)
Water Marks (B1)		_ Presence of Redu		Dry-Season Water Table (C2)
Sediment Deposits (B2 Drift Deposits (B3)	)		iction in Tilled Soils (C6)	
Algal Mat or Crust (B4)		Thin Muck Surfac Other (Explain in		Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Outer (Explain in	Remarks)	Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
Inundation Visible on Ae	erial Imagery (B7)			Shallow Aquitard (D3)
Water-Stained Leaves (				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5)
Field Observations:		SATA CONTRACT		
Surface Water Present?	Yes No	87 40 - 1 (L. 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19		
Water Table Present?	Yes No			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):_	Wetlan	d Hydrology Present? Yes No
Describe Recorded Data (str	eam gauge, monito	ring well, aerial photos,	previous inspections), if a	avellable:
MULT				
Remarks:				
				- I
MM 20070	1310 DO	ane		4
1116210	1310, DZ	- 4 62		- A
				V 1
				_ 4 11
				TO: 1.1A

Tree Stratum (Plot size:		Dominant	Indicator	Sampling Point	
ree Stratum (Plot size:	) % Cover	Dominant Species?	Status		
				Number of Dominant Species That Are OBL, FACW, or FAC:	<u> </u>
				Total Number of Dominant Species Across All Strata:	4 (6
None obser	red			Opecies Across Air Strate.	
				Percent of Dominant Species	60 b 1
		-		That Are OBL, FACW, or FAC:	_ W O (A
				Prevalence Index worksheet:	
		= Total Cov		Total % Cover of:	Multiply by:
50% of total		total cover:		OBL species x 1	=
50% of total	16			FACW species x 2	=
Lindera Genzain		405	PACE	FAC species x3	=
<i>F</i>		0		FACU species x 4	
				UPL species x 5	
				Column Totals: (A)	
				Prevalence index = B/A = _	
			-	Hydrophytic Vegetation Indicate	ors:
				1 - Rapid Test for Hydrophytic	Vegetation
			-	2 - Domínance Test is >50%	To the state of
	7.0		-	3 - Prevalence Index is ≤3.01	
EON affectal		Total Cove		<ul> <li>3 - Prevalence Index is ≤3.0¹</li> <li>4 - Morphological Adaptations</li> </ul>	1 (Provide support
21.0		Total Cover:		4 - Morphological Adaptations	
ro Stratum (Plot size:	cover:		2	4 - Morphological Adaptations data in Remarks or on a se	eparate sheet)
Pannerine mpons	cover:	otal cover:	FAL	4 - Morphological Adaptations	eparate sheet)
Polan Rumder	cover: 5 20% of t		FAL FALW	4 - Morphological Adaptations data in Remarks or on a se Problematic Hydrophytic Vege	eparate sheet) etation <sup>1</sup> (Explain)
Plan funder Agrimonia Puviflo	cover: 5 20% of t	otal cover:	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a se	eparate sheet) etation <sup>1</sup> (Explain) nd hydrology musi
Clan Rumdes	cover: 5 20% of t	otal cover:	FAL FALW	4 - Morphological Adaptations data in Remarks or on a se Problematic Hydrophytic Vege  Indicators of hydric soil and wetla	eparate sheet) etation <sup>1</sup> (Explain) nd hydrology musi
Pannerles reports Polar prinder Agrimonis Purvifle Sympleconous fortu	cover: 5 20% of the Los	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a se Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro  Definitions of Four Vegetation S	eparate sheet) etation <sup>1</sup> (Explain) nd hydrology musi oblematic. strata:
Plan funder Agrimonia Puviflo	cover: 5 20% of the Los	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a se Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro  Definitions of Four Vegetation S  Tree – Woody plants, excluding vi	eparate sheet) etation <sup>1</sup> (Explain) nd hydrology musi oblematic. etrata: nes, 3 in. (7,6 cm)
Dennerles opens Dennerles opens Dennerles opens Agrimones opens Sympleconomis opens	cover: 5 20% of the Los	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a se Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro  Definitions of Four Vegetation S	eparate sheet) etation <sup>1</sup> (Explain) nd hydrology musi oblematic. etrata: nes, 3 in. (7,6 cm)
Denniches reports  Primaries  Agrimanies  Agrimanies	Cover: 5 20% of t	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a set Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro Definitions of Four Vegetation S  Tree – Woody plants, excluding vi more in diameter at breast height height.	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must obtematic. etrata: nes, 3 in. (7.6 cm) (DBH), regardless
Dennerles repens  Plantendes  Agrimonies Parvifle  Speplecorpus fortu	Cover: 5 20% of t	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a set Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro Definitions of Four Vegetation S  Tree – Woody plants, excluding vi more in diameter at breast height height.  Sapling/Shrub – Woody plants, e.	eparate sheet) etation (Explain) and hydrology must obtematic.  strata: nes, 3 in. (7.6 cm) (DBH), regardless excluding vines, les
Dennectus repens  Planeculus repens  Planeculus repens  Agrimonis Parvifle  Symplecorpus fortu	Cover: 5 20% of t	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a set Problematic Hydrophytic Vege  Indicators of hydric soil and wetla be present, unless disturbed or pro Definitions of Four Vegetation S  Tree – Woody plants, excluding vi more in diameter at breast height height.	eparate sheet) etation (Explain) and hydrology must obtematic.  strata: nes, 3 in. (7.6 cm) (DBH), regardless excluding vines, les
Dennerline repense Principles  Agrimonias Privifle  Symplecorpus fortu	Cover: 5 20% of t	yes	FALL FALW FALW	4 - Morphological Adaptations data in Remarks or on a security of the Problematic Hydrophytic Veget Indicators of hydric soil and wetta be present, unless disturbed or problemations of Four Vegetation S.  Tree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.	eparate sheet) etation (Explain) and hydrology must oblematic.  itrata: anes, 3 in. (7.6 cm) (DBH), regardless excluding vines, les requal to 3.28 ft (1
Pannerline reports Pilan primites Agrimonisa Parvifla Symplecarpus Fortu	Cover: 5 20% of the 150 and 15	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a security of the Problematic Hydrophytic Veget Indicators of hydric soil and wetlate present, unless disturbed or probabilitions of Four Vegetation S  Tree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or	eparate sheet) etation (Explain) and hydrology musicoblematic.  itrata: anes, 3 in. (7.6 cm) (DBH), regardless excluding vines, les equal to 3.28 ft (1
Pannerlus repens Plan punder Agrimonis Purvifle Sympleconpus fortu	Cover: 5 20% of the cover:	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a security of the Problematic Hydrophytic Vego Indicators of hydric soil and wetlate present, unless disturbed or problemations of Four Vegetation Stree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Pannerlus repens Plan punder Agrimonis Purvifle Sympleconpus fortu	Cover: 5 20% of the cover:	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a sea Problematic Hydrophytic Vego Indicators of hydric soil and wetlate present, unless disturbed or problemations of Four Vegetation Stree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m).	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Pannerlus repens Planpunder Agrimonis Purvifle Sympleconous fortu	Cover: 5 20% of the cover:	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a security of the Problematic Hydrophytic Vego Indicators of hydric soil and wetlate present, unless disturbed or problemations of Four Vegetation Stree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Stratum (Plot size: \$2 )  Language property  Agrimonism Purvifle  Spenplaceupus fortus  ody Vine Stratum (Plot size: 30%)	cover: 5 20% of to	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a sea Problematic Hydrophytic Vego Indicators of hydric soil and wetlate present, unless disturbed or problemations of Four Vegetation Stree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m).	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Pannerlus repens Planpunder Agrimonis Purvifle Sympleconous fortu	cover: 5 20% of to	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a sea Problematic Hydrophytic Vego Indicators of hydric soil and wetlate present, unless disturbed or problemations of Four Vegetation Stree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m).	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Formerles repens  Vilan fundes  Agrimonia Parvifla  Symplecorpus fortu	cover: 5 20% of to	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a set of the problematic Hydrophytic Vegatindicators of hydric soil and wetlat be present, unless disturbed or problemations of Four Vegetation S.  Tree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m) tall.	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Stratum (Plot size: 50% of total ody Vine Stratum (Plot size: 30%)	cover: 5 20% of to	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a set of the problematic Hydrophytic Vegating and wettate present, unless disturbed or problemations of Four Vegetation S.  Tree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m) tall.	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.
Stratum (Plot size: 50% of total ody Vine Stratum (Plot size: 30%)	Cover: 5 20% of to	Total Cover	FALL FALL OBL	4 - Morphological Adaptations data in Remarks or on a set of the problematic Hydrophytic Vegatindicators of hydric soil and wetlat be present, unless disturbed or problemations of Four Vegetation S.  Tree – Woody plants, excluding vimore in diameter at breast height height.  Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than or m) tall.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines greater than or m) tall.	eparate sheet) etation <sup>1</sup> (Explain) and hydrology must oblematic.  itrata: nes, 3 in. (7.6 cm) (DBH), regardless equal to 3.28 ft (1) y) plants, regardles in 3.28 ft tall.

Profile Description: (Describe to the	depth needed to document	the indicat	-		Sampling Point: WC
10/04/14	Redox Fee	une indicator o	or confirm t	he absence of	indicators.)
0-3 LOAR 4/2 U	Color (moist)	Type'	Loc	Si-L Si-C	Remarks
ype: C=Concentration, D=Depletion,	RM≈Reduced Matrix, MS=Mask	ced Sand Grain	is. <sup>3</sup> L	ocation: PL≃Po	re Lining, M≕Matrix. for Problematic Hydric Soils³
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4)	Dark Surface (S7) Polyvalue Below Sur Thin Dark Surface (S Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Depleted Dark Surface Redox Depressions ( Iron-Manganese Mas MLRA 136)	69) (MLRA 147 x (F2) (F6) ce (F7) F8) sees (F12) (LRI	, 148) R N,	2 cm M Coast (ML) Piedmo (ML) Very Si Other (	Muck (A10) (MLRA 147) Prairie Redox (A16) RA 147, 148) ont Floodplain Soils (F19) RA 136, 147) hallow Dark Surface (TF12) Explain in Remarks)
Sandy Redox (S5) Stripped Matrix (S6)	Umbric Surface (F13)     Pledmont Floodplain     Red Parent Material (	Soils (F19) (ML	RA 148)	wetland h	s of hydrophytic vegetation and hydrology must be present,
trictive Layer (If observed):		21) (MLICA 1)	=(, 14/)	unless di	sturbed or problematic.
Type:			1		

meets F3 - Depleted Matrix

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Hydrophylic Vegetation Present?  Hydric Soil Present?  Yes No Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Taylen in an old Nayfill of Serves as upland represent to the property of the Serves as upland represent to the Secondary Indicators (minimum of two required to the Secondar	andform (hillslope, terrace, etc.): Nally Subregion (LRR or MLRA): LRR N  Soil Map Unit Name: Haymond Silt Io  Are climatic / hydrologic conditions on the site typica  Are Vegetation N, Soil N, or Hydrology L  Are Vegetation N, Soil N, or Hydrology L  SUMMARY OF FINDINGS – Attach site	al for this time of year?    V   significantly distu   D   naturally problem	Yes No	(If no, explain in Circumstances* explain any answ	
Wetland Hydrology Present?  Remarks:  Tayen in an old May fill of Serves as upland rep. for  WOOS-PEM-CATZ  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Presence of Reduced fron (C4)  Drift Deposits (B2)  Recent fron Reduction in Titled Soils (C6)  Algal Mat or Crust (B4)  I ron Deposits (B5)  Inundation Visible on Aerial imagery (B7)  Water Stained Leaves (B9)  Aqualic Fauna (B13)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Saturation Hydrology Present?  Yes No Depth (inches):  Wetland Hydrology Present?  Yes No Remarks:  No Primary or Secondary Wetland Mydrology indicators (minimum of two required for the present of t					
Remarks:  Tayen in an old hayfuld of serves as upland rep. for  WOOS-PEM-CATZ  Hydrology  Wetland Hydrology Indicators:  Surface Soll Cracks (86)  Surface Water (A1)  Surface Soll Cracks (86)  Surface Water (A1)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)  Drainage Patterns (B10)  Sediment Deposits (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation (Visible on Aerial Imagery (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inon Deposits (B5)  Water-Stained Leaves (B7)  Aqualtic Fauna (B13)  Field Observations:  Water Present? Yes No Depth (Inches):  Water Barks:  No Primary or Secondary Wetland Mydrology indicators (minimum of two required: check all that apply)  Secondary Indicators (minimum of two required: check all that apply)  Secondary Indicators (minimum of two required: check all that apply)  Surface Water Rable (A2)  Sparsely Vegetated Concave Surface (C7)  Drainage Patterns (B10)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C7)  Saturation Visible on Aerial			within a Wetland?	Yes	No <u>X</u>
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Water Marks (B1)  Seduration (A3)  Oxidized Rhizospheres on Living Roots (C3)  Sediment Deposits (B2)  Priment (B16)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Water Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Marks:  NO PY MAY A Secondary Wet Land  Secondary Indicators (minimum of two required): minimum of two required: m					
Drimary Indicators (minimum of one is required; check all that apply)	HYDROLOGY				
Surface Water (A1)					
High Water Table (A2) Saturation (A3) Water Marks (B1) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Industrial Imagery (B7) Industrial Fauna (B13)  Water-Stained Leaves (B9) Aquatic Fauna (B13)  Field Observations: Surface Water Present? Water Table Present? Water Table (A2)  Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial imagery (C7) Saturation Visible on Aerial Imagery (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Water Table Oxide Present? Wes No Depth (inches): Wetland Hydrology Present? Yes No Remarks:  No PY MAY  Secondary Wetland Water Oxy Advicatory  Remarks:					
Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Present?  Water Table (Present?  Yes  No  Depth (Inches):  Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C7)  Saturation Visible on Aerial Imagery (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (Inches):  Water Table Present?  Yes  No  Depth (Inches):  Wetland Hydrology Present? Yes  No  Remarks:  No  Pri Mary  Secondary  Wetland Aydrology  Adicutor  Remarks:		•			=
Water Marks (B1)				The state of the s	
Sediment Deposits (B2)	-		-	-	
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Ceomorphic Position (D2) Shallow Aquitard (D3) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) FAC-Neutral Test (D5) Stauration Present? Yes No Depth (Inches): Stauration Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Stauration Present? Yes No Depth (Inches): Stauration Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Remarks: No Stauration Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Stauration Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): No Depth (Inches): No Depth (Inches): No Depth (In	-				
Iron Deposits (B5)		Thin Muck Surface	(C7)	Saturation	Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)  Water-Stalned Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (Inches):  Saturation Present?  Yes No Depth (Inches):  Wetland Hydrology Present? Yes No Depth (Inches):  Security Present?  Wetland Hydrology Present? Yes No Permitted Present?  Wetland Hydrology Present?	Algal Mat or Crust (B4)	Other (Explain in Re	emarks)		
Aquatic Fauna (B13)					
Field Observations:  Surface Water Present? Yes NoX Depth (Inches): Water Table Present? Yes NoX Depth (Inches): Saturation Present? Yes NoX Depth (Inches): Wetland Hydrology Present? Yes NoX Depth (Inches): Wetland Hydrology Present? Yes NoX Depth (Inches): Wetland Hydrology Present? Yes NoX No NoX No NoX No NoX NoX NoX NoX NoX NoX NoX No NoX No No No NoX No No No No No					
Surface Water Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:    Wetland Hydrology Present? Yes No Depth (Inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   Wetland Hydrology Present? Yes No Depth (Inches): Wetland Hydrology Present				FAC-Neulia	11 1621 (D3)
Water Table Present?  Ves No Depth (Inches):  Saturation Present?  Yes No Depth (Inches):  Wetland Hydrology Present? Yes No Depth (Inches):  (Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  NO PY, Mary of Secondary Wetland Nydrology Adicators		Denth (Inches)			
Saturation Present?  Yes NoX Depth (inches): Wetland Hydrology Present? Yes NoX (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  NO PY, Mary or Secondary wetland Nychology and cutors					
Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  N/A  Remarks:  NO PriMary or Secondary Wetland Nydrology indicators				Hydrology Prese	ent? Yes No X
No primary or secondary wetland hydrology indicators	(includes capillary fringe)				
No primary or secondary wetland hydrology indicators	Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, pr	revious inspections), if ava	aliable:	
	Remarks:				
	NO PY MAKE OF SPE	andary MY	Hland hue	Tryng	" Miccotesco
were observed.	Too printery or see	0.5(0)	Comment 1 and a	4	Metitation 2
Were Ober 1 otal	INDICA ALTERIAN				
	Mere Observed				

Sampling Point: WOSS - UF VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30 2 % Cover Species? Status Number of Dominant Species 1. Name alose x yed That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover OBL species x 1 = \_\_\_\_ 50% of total cover: \_\_\_\_ 20% of total cover: Sapling/Shrub Stratum (Plot size: 151 Plant) FACW species x 2 = \_\_\_ x 3 = \_\_\_\_ FAC species 1. NOW OBSERVED FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ (A) \_\_\_\_\_(B) Column Totals: Prevalence Index = B/A = \_\_\_ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytlc Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 20% of total cover: data In Remarks or on a separate sheet) Herb Stratum (Plot size: 5 Problematic Hydrophytlc Vegetation<sup>1</sup> (Explain) 60 1. Phalaris prondinacea <sup>1</sup>Indicators of hydric soll and wetland hydrology must

= Total Cover

20% of total cover:\_

105 = Total Cover

10

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

Woody vine – All woody vines greater than 3.28 ft in

of size, and woody plants less than 3.28 ft tall.

be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:** 

**Woody vine** – All woody vines greater than 3.28 ft in helght.

Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or

Hydrophytic Vegetation Present?

res X No \_\_\_\_

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

4. Veronia noveboracensis

Woody Vine Stratum (Plot size: \_\_\_\_\_)

Wetland Vegetation is dominant

50% of total cover: \_\_

Depth	Matrix		Redox Features		Damedia
(inches)	Color (moist)	1 4- 4	olor (moist) % Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
2-4	10412-112	100_		516	-
-16	104R = 14			<u> </u>	
		etion, RM=Red	uced Matrix, MS=Masked Sand Grains.		PL=Pore Linling, M=Matrix.
Histoso	Indicators:		Dark Surface (S7)		cators for Problematic Hydric Solls <sup>3</sup> 2 cm Muck (A10) (MLRA 147)
Histic E Black H Hydroge Stratifle 2 cm Me Deplete Thick De	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12)		Polyvalue Below Surface (S8) (MLRA 147, 148 Thin Dark Surface (S9) (MLRA 147, 148 Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	47, 148) )) 	Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Solls (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Mucky Mineral (S1) (LI	RR N, _	_ Iron-Manganese Masses (F12) (LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136) Umbric Surface (F13) (MLRA 136, 122)	3in	ndicators of hydrophytic vegetation and
	Redox (S5)	_	Pledmont Floodplain Soils (F19) (MLRA		vetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 127,		nless disturbed or problematic.
Restrictive	Layer (If observed):				
Type:					V
Depth (in	ches):			Hydrlc So	II Present? Yes No 🔨
Remarks:	o hydr	nc s	soils		

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

3/29/2018 12:48:22 PM

in

Case No(s). 18-0030-EL-BTX

Summary: Application (filed in 15 Parts) electronically filed by Ms. Christen M. Blend on behalf of AEP Ohio Transmission Power Company, Inc.