Project/Site: AEP Hillsboro to	Millbrook Park	Cit	v/County. Scioto	Sampli	ing Date: 10/22/2019
Applicant/Owner: AEP			.y/oounty.	State: OH Sam	ipling Point: Wetland HM-053
Investigator(s): DCS		Se	ection, Township, Range: Oh	iio Surveys VIRGINIA MILITARY DIST	FRICT OH93Scioto Lot not numbered
Landform (hillslope, terrace, etc	· )· Bench		relief (concave_convex_no	ne). Concave	Slone (%): 4-8%
Subregion (LRR or MLRA): LR	?R N	Lat: 38.92482	Long.	-83.09510	Slope (76)
Soil Map Unit Name: Latham s	ilt loam. 15 to 25 r	percent slopes	Long	NWI classification: NWI	
Are climatic / hydrologic conditi					
	- ·			I Circumstances" present?	
Are Vegetation, Soil				· ·	
Are Vegetation _, Soil _	_, or Hydrology	naturally proble	ematic? (ii needed, e	explain any answers in Rei	marks.)
SUMMARY OF FINDING	GS – Attach si	te map showing s	ampling point locatio	ons, transects, impo	ortant features, etc.
Hydrophytic Vegetation Prese	ent? Yes _	X No	Is the Sampled Area	V	
Hydric Soil Present?	Yes_	X No	within a Wetland?	Yes X	
Wetland Hydrology Present?	Yes _	X No			
Remarks: enlongated PEM wetland which	h generally follows	s stream and water bar			
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indicators (mi	nimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil Cracks	(B6)
Surface Water (A1)		True Aquatic Plan	ts (B14)	Sparsely Vegetated	Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide	Odor (C1)	✓ Drainage Patterns (B	310)
Saturation (A3)			heres on Living Roots (C3)	Moss Trim Lines (B1	6)
Water Marks (B1)		Presence of Redu		Dry-Season Water Ta	
Sediment Deposits (B2)			ction in Tilled Soils (C6)	Crayfish Burrows (C8	
Drift Deposits (B3)		Thin Muck Surface		Saturation Visible on	
Algal Mat or Crust (B4)		U Other (Explain in I	Remarks)	Stunted or Stressed	
Iron Deposits (B5) Inundation Visible on Aer	rial Imagany (D7)			Geomorphic Position	
Water-Stained Leaves (E	0 5			☐ Shallow Aquitard (D3☐ Microtopographic Re	
Aquatic Fauna (B13)	3)			FAC-Neutral Test (D	
Field Observations:				The reduction rest (B.	
Surface Water Present?	Voc. No.	X Depth (inches): _			
Water Table Present?		X Depth (inches): _			
Saturation Present?		•		Hydrology Present? Yes	s X No
(includes capillary fringe)	res No_	X Depth (inches): _	wettand r	Tyurology Present? Te	S NO
Describe Recorded Data (stre	am gauge, monito	oring well, aerial photos,	previous inspections), if ava	ilable:	
Remarks:					
Stream S-DCS-102219-01 is o	irectly abutting we	tland			

Sampling Point:	Wetland	HM-053
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	001	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:1.			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	
2						
3					Total Number of Dominant Species Across All Strata: 2 (B)	
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 100.00 (A/	B)
6					Prevalence Index worksheet:	-
	_		= Total Cov		Total % Cover of: Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species60x 1 =60	
Sapling Stratum (Plot size:	15')				FACW species 100 x 2 = 200	
1					FAC species 10 x 3 = 30	
2					FACU species 0 x 4 = 0	
3					UPL species 0 x 5 = 0	
4					Column Totals: 170 (A) 290 (E	5/
5					(E)	"
6					Prevalence Index = B/A = 1.71	
			= Total Cov		Hydrophytic Vegetation Indicators:	
	50% of total cover:0	20% of	total cover:	0	X 1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15'				X 2 - Dominance Test is >50%	
1					$\frac{X}{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$	
2					4 - Morphological Adaptations (Provide supporti	ng
3					data in Remarks or on a separate sheet)	
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5					1	
6					Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
		0	= Total Cov	er	Definitions of Five Vegetation Strata:	_
	50% of total cover:0	20% of	total cover:	0		
Herb Stratum (Plot size:	=1				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
Scirpus cyperinus		75	Υ	FACW	(7.6 cm) or larger in diameter at breast height (DBH).	
2. Leersia oryzoides		40	Y	OBL	Sanling Woody plants evaluding woody vines	
3. Persicaria sagittata		20		OBL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
Solidago gigantea		10		FACW	than 3 in. (7.6 cm) DBH.	
5 Eutrochium purpureum		10	N	FAC	Shrub – Woody plants, excluding woody vines,	
6. Ludwigia alternifolia		5		FACW	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Impatiens capensis		5	N	FACW	Howh All harhaceaus (non-woods) plants, including	
8. Onoclea sensibilis				FACW	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	
					plants, except woody vines, less than approximately	3
					ft (1 m) in height.	
10					Woody vine – All woody vines, regardless of height.	
11			Tatal Cau			
			= Total Cov	er		
	50% of total cover: 85	20% of	total cover:	34		
Woody Vine Stratum (Plot size	:)					
1						
2						
3						
4						
5					Hydrophytic	
		0	= Total Cov	er	Hydrophytic Vegetation	
	50% of total cover: 0	20% of	total cover:	0	Present? Yes X No	
Remarks: (Include photo numb					1	
, 1111 p. 1111	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,				

Profile Desc	ription: (Describe to	o the depth	n needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			K Features		1 2	T	Demode
(inches)	Color (moist)	<u>%</u> _	Color (moist)		Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 1	10YR 4/2		10YR 4/6	10		M	Clay loam	
	10YR 2.5/1						Clay loam	organic matter
<u>1 - 6</u>	10YR 5/2	80	7.5YR 4/6	20	C	M	Clay loam	
6 <b>—</b> 14	10YR 5/2	75	10YR 4/6	25	C	PL	Clay Loam	
_								
_								
							2	
'Type: C=Co	ncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	I Sand Gra	iins.		_=Pore Lining, M=Matrix.  Itors for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil I			■ Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		се (S8) <b>(М</b>	II RΔ 147		oast Prairie Redox (A16)
Black His	•		Thin Dark Su				140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			.,,,	□P	iedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mat		,		<del></del>	(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F	6)		<u> </u>	ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar				.∐ 0	ther (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	ucky Mineral (S1) (LI	RR N,	☐ Iron-Mangane		es (F12) <b>(I</b>	₋RR N,		
	. <b>147, 148)</b> leyed Matrix (S4)		MLRA 130	•	/MI DΔ 12	6 122)	3Ind	cators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	•				ess disturbed or problematic.
	ayer (if observed):	Yes		`				,
Type: roc	k							
Depth (inc	hes): <u>14</u>		<u></u>				Hydric Soil	Present? Yes X No
Remarks:							•	





north east





south west

Soil Photos:

Wetland HM-053





Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto Sampling Date: 10/21/2019
Applicant/Owner: AEP	State: OH Sampling Point: Wetland HM-054
	Section, Township, Range: Ohio Surveys VIRGINIA MILITARY DISTRICT OH93Scioto Lot not numbered
Landform (hillslope, terrace, etc.): Bench	Local relief (concave, convex, none): Concave Slope (%): 10%
Subregion (LRR or MLRA): LRR N Lat: 38.9218	
	nt slopes NWI classification: N/A
•	ne of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signi	-
Are Vegetation _, Soil, or Hydrology nature	rally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No_	Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	
Remarks:	
small PEM wetland in a topographic low spot within the active	Γ-line ROW
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	
l — · —	uatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
	en Sulfide Odor (C1)
	d Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
	e of Reduced Iron (C4) Dry-Season Water Table (C2)
	Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	ck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Explain in Remarks)
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 _X Depth	
Water Table Present? Yes No _X Depth	
Saturation Present? Yes No _X _ Depth (includes capillary fringe)	(inches): Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:
Remarks:	

Sampling Point: \	Wetland	HM-054
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	0.01	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2					
3					Total Number of Dominant Species Across All Strata:  (B)
					Species Across Air Strata.
4					Percent of Dominant Species That Are OBL FACW or FAC: 100.00 (A/B)
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
6					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species
Sapling Stratum (Plot size:	)				FACW species 95 x 2 = 190
1					FAC species 0 x 3 = 0
2					FACU species x 4 = 4
3					I ·
4					UPL species 0 x 5 = 0
5					Column Totals:96 (A)194 (B)
6					Prevalence Index = B/A = 2.02
		0	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover	0	X 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					X 2 - Dominance Test is >50%
1					$X = 3$ - Prevalence Index is $\le 3.0^1$
					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	Tree Woody plants evaluding woody vines
Herb Stratum (Plot size:	5' )				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
		95	Y	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Symphyotrichum sp.		_	N		Sapling – Woody plants, excluding woody vines,
Apocynum androsaemifoliur		4		FACU	approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5.					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					<b>Herb</b> – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
					Woody vine – All woody vines, regardless of height.
11		101	Tatal Cau		
			= Total Cove	er	
	50% of total cover: 51	20% of	total cover:	20	
Woody Vine Stratum (Plot size	:)				
1					
2					
3					
5.					
		0	= Total Cove		Hydrophytic
	500/ 51 1 1			_	Vegetation   Present?   Yes X   No
	50% of total cover: 0		total cover:	0	
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the ii	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			k Features			_	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Remarks</u>
<u>0 - 5</u>	10YR 4/2	95	10YR 5/6	5	C	M	Silty clay loam	
5 <b>—</b> 16	10YR 5/2	92	10YR 5/6	8	C	M	Clay loam	more moist
_								
_								
_								
	ncentration, D=Depl	etion, RM=F	teduced Matrix, MS	=Masked	Sand Gra	ains.		_=Pore Lining, M=Matrix.
Hydric Soil I								tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(0.0) (7			cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				<b>148)</b> <u></u> ∟ C	oast Prairie Redox (A16)
Black His	stic (A3) n Sulfide (A4)		☐ Thin Dark Su☐ Loamy Gleye			47, 148)	Пь	(MLRA 147, 148) iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		-2)			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark S		6)			ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar					ther (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	3)			
	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangane		es (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 130	•			2	
	leyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6) ayer (if observed):	N	Red Parent N	nateriai (F.	ZI) (WILK	A 127, 147	y) uni	ess disturbed or problematic.
Type:	•							
J			<del></del>				Hudria Cail	Present? Yes X No
Remarks:	:hes):		_				Hydric 30ii	rieseit: res NO
Remarks:								





north east





south west



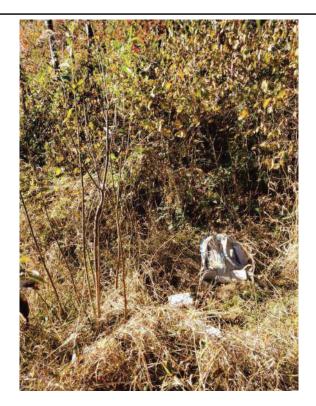
Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto Coun	sar Sar	mpling Date: 10/23/2019
Applicant/Owner: AEP		State: OH S	Sampling Point: Wetland HM-055
Investigator(s): DCS	Section, Township, Rang	e: Ohio Surveys VIRGINIA MILITARY	DISTRICT OH93Scioto Lot not numbered
Landform (hillslope, terrace, etc.): Bench	Local relief (concave, convex	x, none): Concave	Slope (%): <u>5-10</u>
Subregion (LRR or MLRA): LRR N Lat: 3	8.91682 Long:	-83.0840	6 Datum: WGS 84
Soil Map Unit Name: Shelocta-Wharton-Latham associa		NWI classification	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	_ significantly disturbed? Are "No	ormal Circumstances" prese	ent? Yes X No
Are Vegetation _, Soil, or Hydrology	_ naturally problematic? (If need	ded, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point loc	ations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes X	No		
	No Is the Sampled A within a Wetland		No
Wetland Hydrology Present? Yes X	No.	. 103	
Remarks:			
Small PEM wetland in hillside bench			
onian i ziw wedana ii i iiiiolaa sanan			
HYDROLOGY			
Wetland Hydrology Indicators:			(minimum of two required)
Primary Indicators (minimum of one is required; check a	all that apply)	Surface Soil Crac	cks (B6)
	rue Aquatic Plants (B14)		ed Concave Surface (B8)
	ydrogen Sulfide Odor (C1)	Drainage Pattern	` ′
	xidized Rhizospheres on Living Roots (		` '
	resence of Reduced Iron (C4)	Dry-Season Wate	
	ecent Iron Reduction in Tilled Soils (C6		
	hin Muck Surface (C7)		on Aerial Imagery (C9)
	ther (Explain in Remarks)	Stunted or Stress	·
Iron Deposits (B5)		Geomorphic Posi	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard	` '
Water-Stained Leaves (B9)		Microtopographic	
Aquatic Fauna (B13)		FAC-Neutral Test	I (D5)
Field Observations:	Donaldo (in alle an)		
Surface Water Present?         Yes No _X			
· ·			v X N-
Saturation Present? Yes X No [ (includes capillary fringe)	Jepth (inches): wetia	and Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring we	ll, aerial photos, previous inspections), i	if available:	
Remarks:			

Sampling	Point:	Wetland	HM-055
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	201	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:	,	% Cover	Species?	<u>Status</u>	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: 2 (A	A)
2					Total Number of Dominant	
3					Species Across All Strata: 2 (E	B)
4					Percent of Dominant Species	
5						A/B)
6					Prevalence Index worksheet:	
		:	= Total Cov	er		
	50% of total cover:0	20% of	total cover:	0		
Sapling Stratum (Plot size:	15'				OBE openies X T	
. 50 / 11 / 12		3	N	FACW	17.611 opesies X2	
o Oellin edene		2	N	OBL	1 AO species X 5	
3					1 ACO species X 4	
4					UPL species 0 x 5 = 0	
5					Column Totals:156 (A)284	(B)
•					Prevalence Index = B/A =1.82	
			Total Cov	 er	Hydrophytic Vegetation Indicators:	
	50% of total cover: 3	20% of	total cover	1	X 1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:		20% 01	total cover.		X 2 - Dominance Test is >50%	
					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
1					4 - Morphological Adaptations <sup>1</sup> (Provide suppor	rtina
2					data in Remarks or on a separate sheet)	rung
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4						
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
6		_			be present, unless disturbed or problematic.	
		:	= Total Cov		Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	)				approximately 20 ft (6 m) or more in height and 3 in	
		40	Y	FACW	(7.6 cm) or larger in diameter at breast height (DBH	1).
Alisma subcordatum		20	N	OBL	Sapling – Woody plants, excluding woody vines,	
3. Leersia oryzoides		40	<u> </u>	OBL	approximately 20 ft (6 m) or more in height and less	S
4. Ludwigia alternifolia		5	N	FACW	than 3 in. (7.6 cm) DBH.	
5. Juncus tenuis		10	N	FAC	Shrub – Woody plants, excluding woody vines,	
6. Dichanthelium acuminatum		20	N	FAC	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Solidago gigantea		10	N	FACW	Herb – All herbaceous (non-woody) plants, including	ng
8. Eutrochium purpureum		5	N	FAC	herbaceous vines, regardless of size, and woody	_
9					plants, except woody vines, less than approximately ft (1 m) in height.	y 3
10						
11					Woody vine – All woody vines, regardless of heigh	nt.
		150 =	= Total Cov	er		
	50% of total cover:75	20% of	total cover:	30		
Woody Vine Stratum (Plot size		2070 01	total cover.			
1						
2						
3						
4						
5		0 :			Hydrophytic	
	-		= Total Cov		Vegetation Present? Yes X No	
	50% of total cover:0		total cover:	<u> </u>	100	
Remarks: (Include photo numb	ers here or on a separate s	heet.)				

/ i I \	Matrix	%		x Features	<b>-</b> 1	2	Tt		Damada
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup> _	Loc <sup>2</sup>	<u>Texture</u>	HS odor	Remarks
0 — 6	7.5YR 3/2	95	7.5YR 4/6			PL_	Clay loam	H3 0001	
6 <b>–</b> 12	2.5Y 4/1	90	2.5Y 4/4			PL	Clay loam		
_									
_									
_							-		
_									
		etion, RM=	Reduced Matrix, MS	S=Masked S	and Grain	ns.	<sup>2</sup> Location: Pl		
ydric Soil Ir –									blematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface		(00) (00)				0) (MLRA 147)
_	ipedon (A2)		Polyvalue Be				148) <u> </u>	oast Prairie F	
Black His Hvdroger	stic (A3) n Sulfide (A4)		☐ Thin Dark Su☐ Loamy Gleye			7, 148)	Пв	(MLRA 147,	dplain Soils (F19)
= ,	Layers (A5)		✓ Depleted Ma		.)		<u> </u>	(MLRA 136,	
_	ck (A10) (LRR N)		✓ Redox Dark	, ,			$\square$ $\vee$		Dark Surface (TF12)
_	Below Dark Surface	e (A11)	Depleted Dar					ther (Explain	
_	rk Surface (A12)	, ,	Redox Depre		,				,
] Sandy M	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan	ese Masses	(F12) <b>(LF</b>	RR N,			
_	147, 148)		MLRA 13	•					
	leyed Matrix (S4)		Umbric Surfa						rophytic vegetation and
_	edox (S5)		Piedmont Flo						gy must be present,
	Matrix (S6)		Red Parent N	/laterial (F21	) (MLRA	127, 147	') unl	ess disturbed	l or problematic.
	ayer (if observed):	Yes							
Type: roc									.,
							Hydric Soil	Present?	Yes <u>X</u> No
Depth (inc	hes): <u>12</u>								
	hes): <u>12</u>								
. `	hes): <u>12</u>								
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Depth (inc	hes): 12								
	hes): 12								
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north

east





south west







Soil Profile & Munsell



Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Sc	sioto	Sampling Date:
Applicant/Owner: AEP	Only/County:	State: OH	Sampling Point: Wetland HM-056
	Section Towns	hin Range: Ohio Surveys VIRGINIA M	IILITARY DISTRICT OH93Scioto Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concar	ve convex none). Concave	Slone (%): 5
Subregion (LRR or MLRA): LRR N Lat:			
Soil Map Unit Name: Shelocta-Brownsville association			
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil _ ✓ _, or Hydrology		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	
Are vegetation _, our _, or rivulology _		(If ficeded, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling p	oint locations, transect	ts, important features, etc.
Hydrophytic Vegetation Present? Yes X	_ NoIs the Sa	ampled Area	
	19 11.0 0	Wetland? Yes	<u></u> Nо
	No		
Remarks:			
Seep-fed PEM adjacent to ATV access road on very e	roded hillside.		
Soils highly disturbedlikely masking any potential hyd	tric soil indicators. Wetland dete	ermination based on strong veg	etation and hydrology indicators.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check	call that apply)	Surface So	oil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	egetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Odor (C1)	<u></u> Drainage P	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Livir	ng Roots (C3) Hoss Trim	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seaso	n Water Table (C2)
	Recent Iron Reduction in Tilled	Soils (C6)	urrows (C8)
	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	_	Stressed Plants (D1)
Iron Deposits (B5)			ic Position (D2)
Inundation Visible on Aerial Imagery (B7)			quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutr	al Test (D5)
Field Observations: Surface Water Present? Yes No X	Depth (inches):		
l		Watland Hidralani Dras	out? Von X No
Saturation Present? Yes X No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous insp	ections), if available:	
Remarks:			

Sampling	Point:	Wetland	HM-056
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		Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:	)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	
1					That Are OBL, FACW, or FAC:	(A)
2					Total Number of Dominant	
3						(B)
4						( /
5					Percent of Dominant Species That Are ORL FACW or FAC: 100.00	(A (D)
					That Are OBL, FACW, or FAC: 100.00	(A/B)
6					Prevalence Index worksheet:	
			= Total Cove	er	Total % Cover of: Multiply by:	
	50% of total cover:0	20% of	total cover:_	0	OBL species	
Sapling Stratum (Plot size:	15'				FACW species0 x 2 = 0	_
1						_
2					1 AO species	_
					FACU species10 x 4 =40	_
3					UPL species0 x 5 =0	_
4					Column Totals:103 (A)169	(B)
5					4.04	
6					Prevalence Index = B/A = 1.64	_
			= Total Cove	er	Hydrophytic Vegetation Indicators:	
	50% of total cover:0	20% of	total cover:_	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15')				X 2 - Dominance Test is >50%	
1	•				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2					4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orting
					data in Remarks or on a separate sheet)	Ü
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	1)
4						
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
6					be present, unless disturbed or problematic.	uo:
		0	= Total Cove	er	Definitions of Five Vegetation Strate	
					Definitions of rive vegetation strata.	
	50% of total cover: 0	20% of			Definitions of Five Vegetation Strata:	
Horb Stratum (Plot size:	50% of total cover: 0	20% of			Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	5' )		total cover:_	0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i	
1. Carex lurida		55	total cover:_	0 OBL	Tree – Woody plants, excluding woody vines,	
Carex lurida     Scirpus atrovirens	5' )	55 20	total cover:	OBL OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines,	iH).
1. Carex lurida	5' )	55	total cover:_	0 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	iH).
Carex lurida     Scirpus atrovirens	5' )	55 20	total cover:	OBL OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines,	iH).
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum	5' )	55 20 15	total cover:_ Y N N	OBL OBL FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	iH).
<ol> <li>Carex lurida</li> <li>Scirpus atrovirens</li> <li>Dichanthelium clandestinum</li> <li>Schedonorus arundinaceus</li> <li>Symphyotrichum pilosum</li> </ol>	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.	iH).
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	sH). ss
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum     .  7.	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including woody)	sH). ss
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	H). ss
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum     .      .	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	H). ss
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum	5' )	55 20 15 10 3	total cover:_ Y N N N N N	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum     .      .	5' )	55 20 15 10 3	Y N N N N	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximates.	H). ss ing ely 3
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum     .      .	5' )	55 20 15 10 3	Y N N N N	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
Carex lurida     Scirpus atrovirens     Dichanthelium clandestinum     Schedonorus arundinaceus     Symphyotrichum pilosum     .      .	5' )	55 20 15 10 3	Y N N N N T T T T T T T T T T T T T T T	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11.	5' )	55 20 15 10 3	Y N N N N T T T T T T T T T T T T T T T	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11.	5' )  50% of total cover: 52 : 30' )	55 20 15 10 3 103 20% of	Y N N N N T N T T T T T T T T T T T T T	OBL OBL FAC FACU FAC  FAC  21	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11.	5' )  50% of total cover:52 :30' )	55 20 15 10 3 103 20% of	Y N N N N T T Total Cover:	OBL OBL FAC FACU FAC  FAC  21	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11.	5' )  50% of total cover:52 :30' )	55 20 15 10 3 103 20% of	Y N N N N T T Total Cover:	OBL OBL FAC FACU FAC  FAC  21	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
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1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size 1. 2	5' )  50% of total cover:52 :30' )	55 20 15 10 3 103 20% of	Y N N N N T N T T T T T T T T T T T T T	OBL OBL FAC FACU FAC  FAC  21	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ing ely 3
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1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size 1. 2. 3	5' )  50% of total cover:52 :30' )		Y N N N N T N T T T T T T T T T T T T T	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.  Woody vine – All woody vines, regardless of height hydrophytic	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size 1. 2. 3	5' )  50% of total cover:52 :)		Y N N N N T N T T T T T T T T T T T T T	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.  Woody vine – All woody vines, regardless of heighted	H). ss ing ely 3
1. Carex lurida 2. Scirpus atrovirens 3. Dichanthelium clandestinum 4. Schedonorus arundinaceus 5. Symphyotrichum pilosum 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size 1. 2. 3	5' ) 50% of total cover:52 :30' )		Y N N N N T N T T T T T T T T T T T T T	OBL OBL FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 i (7.6 cm) or larger in diameter at breast height (DB Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.  Woody vine – All woody vines, regardless of height herbaceous wines, regardless of height herbaceous win	H). ss ing ely 3

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0 — 18 10YR 5/3 97	10YR 6/6 3 C M	Silty Ioam Gravelly
_		
<u> </u>		
_		
<u> </u>		
_		
<sup>1</sup> Type: C=Concentration D=Depletion RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Troduced Matrix, me Macroa Carra Granic.	Indicators for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol (A1)	☐ Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	☐ Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
☐ Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	☐ Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	8) wetland hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	) unless disturbed or problematic.
Restrictive Layer (if observed): No		
Type:		
Depth (inches):	<u></u>	Hydric Soil Present? Yes X No
Remarks:		
	tential hydric soil indicators. Wetland determination	based on strong vegetation and hydrology indicators.
3 , , , , , , , , , , , , , , , , , , ,	······································	, , , , , , , , , , , , , , , , , , , ,





North South





East West



Wetland HM-056

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park			County: Scioto	Sampling Date: 11/01/2019		
Applicant/Owner: AEP			•	State: OH Samp	ling Point: Wetland HM-057	
Investigator(s): MJA, DMS		Section	on, Township, Range: Ohio	Surveys VIRGINIA MILITARY DISTR	ICT OH93Scioto Lot not numbered	
Landform (hillslope, terrace, etc.): Hillsid						
Subregion (LRR or MLRA): LRR N	Lat: <u>38</u>	8.90018	Long:	-83.06329	_ Datum: WGS 84	
Soil Map Unit Name: Shelocta-Brownsv	ille association, v			NWI classification: N/		
Are climatic / hydrologic conditions on th	e site typical for t	this time of year? Y	res X No (I	lf no, explain in Remarks.)		
Are Vegetation, Soil <u>√</u> , or H	-lydrology	_ significantly distur	bed? Are "Normal	Circumstances" present?	Yes X No	
Are Vegetation _, Soil, or H	-lydrology	_ naturally problema	atic? (If needed, ex	xplain any answers in Rem	narks.)	
SUMMARY OF FINDINGS – At	tach site ma	p snowing san	ipling point location	ns, transects, impor	tant reatures, etc.	
Hydrophytic Vegetation Present?	Yes X	No	la tha Camplad Area			
Hydric Soil Present?	Yes X		Is the Sampled Area within a Wetland?	Yes X		
Wetland Hydrology Present?	Yes X					
Remarks:						
Seep-fed PEM on eroded hillside, occas	sional ATV distur	bance.				
HYDROLOGY						
				Casandam Indicators (min	imum of two required)	
Wetland Hydrology Indicators:	roguirod, obook o	II that annly)	:	Secondary Indicators (min	<u>.</u>	
Primary Indicators (minimum of one is			D14)	Surface Soil Cracks (E	,	
Surface Water (A1) High Water Table (A2)		rue Aquatic Plants ( ydrogen Sulfide Od		Sparsely Vegetated C  Drainage Patterns (B1		
Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Lines (B16		
Water Marks (B1)		resence of Reduced	= : :	Dry-Season Water Ta		
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)		nin Muck Surface (0		Saturation Visible on A		
Algal Mat or Crust (B4)		ther (Explain in Rer		Stunted or Stressed P		
Iron Deposits (B5)				Geomorphic Position (	(D2)	
Inundation Visible on Aerial Image	ry (B7)			Shallow Aquitard (D3)		
Water-Stained Leaves (B9)			ļ	Microtopographic Reli	ef (D4)	
Aquatic Fauna (B13)				FAC-Neutral Test (D5	)	
Field Observations:						
		Depth (inches):				
		Depth (inches):				
	( No C	Depth (inches):	Wetland H	ydrology Present? Yes	No	
(includes capillary fringe)  Describe Recorded Data (stream gaug	e, monitoring wel	II, aerial photos, pre	vious inspections), if avail	lable:		
, , ,						
Remarks:						

Sampling	Point:	Wetland	HM-057
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	001		Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
2					Total Number of Deminent
3					Total Number of Dominant Species Across All Strata:  3 (B)
4					` ` /
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		-			Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:0	20% of	total cover:_	0	OBL species45 x 1 =45
Sapling Stratum (Plot size:	)				FACW species 40 x 2 = 80
1					FAC species15 x 3 =45
2					FACU species0 x 4 =0
3					UPL species
4					400
5					Column Totals:100 (A)170 (B)
6					Prevalence Index = B/A =1.70
		=	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:_	0	X 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	)				X 2 - Dominance Test is >50%
1					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					1
6.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0 =	Total Cove	r	Definitions of Five Vegetation Strata:
	50% of total cover: 0	·	total cover:	0	Definitions of Five Vegetation Strata.
Herb Stratum (Plot size:		2070 01	10101 00 101		Tree – Woody plants, excluding woody vines,
4 1		40	Υ	FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Leersia oryzoides		25	Y	OBL	
Scirpus atrovirens		20	Y	OBL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Dichanthelium acuminatum		15	N	FAC	than 3 in. (7.6 cm) DBH.
				170	Character Management and a state of the stat
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11.					Woody vine – All woody vines, regardless of height.
		100 =	Total Cove	 er	
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size:		20 /6 01	total cover		
1					
2					
3					
4					
5					Hydrophytic
		=	= Total Cove	er	Vegetation
	50% of total cover:0	20% of	total cover:_	0	Present? Yes X No
Remarks: (Include photo numb	ers here or on a separate s	heet.)			1

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 4	10YR 5/2	80	7.5YR 5/8	20	C	M	Silty Ioam	With gravel
4 — 18	10YR 5/6	60	2.5Y 6/1	30	C	M	Clay	With gravel
<u>4</u> — 18			10YR 5/2	10	C	M	Clay	
_								
_								
					-			
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.		_=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		. , .		148) <u> </u>	oast Prairie Redox (A16)
Black Hi			Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		<u> </u>	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		.0)			(MLRA 136, 147)
	ck (A10) (LRR N)	. (Δ11)	Redox Dark	•				ery Shallow Dark Surface (TF12)
	l Below Dark Surface irk Surface (A12)	: (A11)	☐ Depleted Dar ☐ Redox Depre					ther (Explain in Remarks)
_	lucky Mineral (S1) <b>(L</b>	RR N.	☐ Iron-Mangan			LRR N.		
-	147, 148)		MLRA 13		50 (i 12) <b>(</b>			
	leyed Matrix (S4)		☐ Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					ess disturbed or problematic.
Restrictive L	ayer (if observed):	No						
Type:								
Depth (inc	ches):		_				Hydric Soil	Present? Yes <u>X</u> No
Remarks:	_1							
Very disturbe	a							





North South





East West



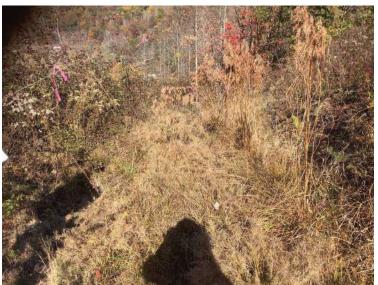
Soil Profile

Project/Site: AEP Hillsboro to	Millbrook Par	k	City/C	County. Scioto	ç	Sampling Date:
Applicant/Owner: AEP			Only to		State: OH	Sampling Point: Wetland HM-058
Investigator(s): MJA, DMS			Section	on, Township, Range: <sup>Ohi</sup>		RY DISTRICT OH93Scioto Lot not numbered
Landform (hillslope, terrace, et	C.): Hillside					
Subregion (LRR or MLRA): LR			_at: 38.89996	Long:	-83.06	257 Datum: WGS 84
Soil Map Unit Name: Shelocta			tion, very steep		NWI classificat	ion: N/A
Are climatic / hydrologic condit						
Are Vegetation, Soil						esent? Yes X No
Are Vegetation _, Soil _					explain any answers	
						important features, etc.
Hydrophytic Vegetation Prese	ent? \	/es )	X No			
Hydric Soil Present?			X No	Is the Sampled Area within a Wetland?	Yes	No
Wetland Hydrology Present?	,	es )	X No			
Remarks:						
Seep-fed PEM on eroded hills	ide occasion	al ATV	disturbance			
HYDROLOGY						
Wetland Hydrology Indicato	ors:				Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum	of one is requ	uired; ch	neck all that apply)		Surface Soil Cr	racks (B6)
Surface Water (A1)		[	True Aquatic Plants (	B14)	Sparsely Vege	tated Concave Surface (B8)
High Water Table (A2)		Ĺ	Hydrogen Sulfide Od	or (C1)	Drainage Patte	erns (B10)
Saturation (A3)		Ļ	_	es on Living Roots (C3)	Moss Trim Line	es (B16)
Water Marks (B1)		Ļ	Presence of Reduced		Dry-Season W	ater Table (C2)
Sediment Deposits (B2)		Ļ	Recent Iron Reductio		Crayfish Burrov	
Drift Deposits (B3)		Ļ	Thin Muck Surface (0	· ·		ble on Aerial Imagery (C9)
Algal Mat or Crust (B4)		L	Other (Explain in Rer	marks)		essed Plants (D1)
Iron Deposits (B5)					Geomorphic Po	
Inundation Visible on Aer		37)			Shallow Aquita	` '
Water-Stained Leaves (E	39)				Microtopograph	` '
Aquatic Fauna (B13)					FAC-Neutral To	est (D5)
Field Observations:						
Surface Water Present?			Depth (inches):			
Water Table Present?			Depth (inches):			V
Saturation Present? (includes capillary fringe)	Yes X	No	Depth (inches): 0	Wetland H	lydrology Present?	? Yes <u>X</u> No
Describe Recorded Data (stre	 eam gauge, m	nonitorin	ng well, aerial photos, pre	vious inspections), if ava	ilable:	
,				. ,		
Remarks:						

Sampling Poi	րէ։ Wetland HM-05
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	001	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2					T. I. I. CD.
3					Total Number of Dominant Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC:100.00 (A/B)
0			= Total Cove		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species60 x 1 =60
Sapling Stratum (Plot size:					FACW species4 x 2 =8
1					FAC species45 x 3 =135
2					FACU species0 x 4 =0
3					UPL species
4					Column Totals: 109 (A) 203 (B)
5					(3)
6			Total Cove		Prevalence Index = B/A = 1.86  Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	)				X 2 - Dominance Test is >50%
1					X 3 - Prevalence Index is ≤3.0¹
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3					·
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					1
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		:	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:		<u> </u>	·		<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Scirpus atrovirens	,	60	Υ	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Dichanthelium acuminatum		45	Y	FAC	Carling Woods plants evaluating woods since
3. Cyperus esculentus		3		FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Ludwigia alternifolia		1	N	FACW	than 3 in. (7.6 cm) DBH.
5.					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					it (1 III) III Height.
11.					Woody vine - All woody vines, regardless of height.
		109	= Total Cove		
	50% of total cover: 55	20% of	total cover:	22	
Woody Vine Stratum (Plot size:	30'				
1					
2					
3					
4					
5					Hydronhydio
		0 :	= Total Cove	er	Hydrophytic Vegetation
	50% of total cover:0	20% of	total cover:	0	Present? Yes X No
Remarks: (Include photo numb			-		1
, ,	,	,			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 4	10YR 5/2		7.5YR 5/8		C	M	Silty loam	
<u>4</u> — 18	10YR 5/6	60	2.5Y 6/1	30	C	M	Clay	With gravel
<u>4</u> — 18	10YR 5/2	10						
_								
_								
							2	
'Type: C=Co	ncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> :
			Dork Surface	(07)				cm Muck (A10) (MLRA 147)
Histosol	ipedon (A2)		<ul><li>☐ Dark Surface</li><li>☐ Polyvalue Be</li></ul>		ce (S8) <b>(N</b>	II RΔ 147		Coast Prairie Redox (A16)
Black His			Thin Dark Su		. , .		140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			, , , , , ,	☐ P	riedmont Floodplain Soils (F19)
_	Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark				_	ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dai				<u> </u>	Other (Explain in Remarks)
_	rk Surface (A12)	DD N	Redox Depre	-		L DD N		
	ucky Mineral (S1) <b>(L</b> . <b>147, 148)</b>	KK N,	☐ Iron-Mangan MLRA 13		es (F12) <b>(</b>	LKK N,		
	leyed Matrix (S4)		☐ Umbric Surfa		MLRA 13	6. 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
_	Matrix (S6)		Red Parent N					less disturbed or problematic.
Restrictive L	.ayer (if observed):	No						
Type:			_					
Depth (inc	:hes):		_				Hydric Soil	Present? YesX No
Remarks: Very disturbed	٠							
very disturbed	4							





North South





East West



Soil profile Photo taken 01-16-2020

Project/Site: AEP Hillsboro to	Millbrook Pa	rk		City/C	County: Scioto			Sampling	Date: 10	)/31/2019
Project/Site: AEP Hillsboro to Millbrook Park City/CApplicant/Owner: AEP					9	State: OH	_ campiing Samplin	na Point:	Wetland HM-059	
Investigator(s): MJA, DMS				Section	on, Township, R	ange: Ohio S	urveys VIRGINIA MI	LITARY DISTRIC	T OH93Sciot	to Lot not numbered
Landform (hillslope, terrace, etc	 ): Hillside			Local rel	ief (concave, co	nvex. none)	Concave		Slope	(%): 5
Subregion (LRR or MLRA): <u>LR</u>	R N		Lat: 38.88343		Lo	ona:	-83	.04061	Datum:	WGS 84
Soil Map Unit Name: Shelocta	-Brownsville	associa	ation, very steep			9.	NWI classifi	cation: N/A		
Are climatic / hydrologic conditi										
Are Vegetation, Soil							rcumstances"		es X	No
Are Vegetation, Soil							lain any answ	•		
, con _	_, o. 11ye	li ology <u>.</u>	_ natarany	problem	(11)	тосиси, схр	nam any answ	ors in recinal	N3.)	
SUMMARY OF FINDING	GS – Atta	ch sit	e map showi	ng san	npling point	locations	s, transects	s, importa	ant feat	tures, etc.
Hydrophytic Vegetation Prese	ent?	Yes	X No		Is the Sample	d Aroa				
Hydric Soil Present?			X No		within a Wetla		YesX	No		
Wetland Hydrology Present?			X No							
Remarks:										
Isolated hillside PEM.										
HYDROLOGY										
Wetland Hydrology Indicate	arc.					· · ·	econdary Indic	otore (minim	um of tw	o roquirod)
1		المصال م	محمد فمعلف المباهمعا	1		<u>зе</u> Г	¬			<u>o requirea)</u>
Primary Indicators (minimum	or one is req	<u>uirea; c</u>	_	•	(D4.4)	<u> -</u>	=	I Cracks (B6	•	( (DO)
Surface Water (A1)  High Water Table (A2)			True Aquati			<u> </u>		egetated Cor		rface (B8)
			Hydrogen S				<b>-</b>	atterns (B10)	1	
Saturation (A3)				•	es on Living Roo		Moss Trim I		- (C2)	
Water Marks (B1)			Presence of			(00)	<b>-</b>	Water Table	∋ (C2)	
Sediment Deposits (B2)					on in Tilled Soils (C6)					
Drift Deposits (B3)			Thin Muck S							ery (C9)
Algal Mat or Crust (B4)			U Other (Expla	aın ın Rer	тагкѕ)	F	_			
Iron Deposits (B5)	ial Imaganı	(DZ)				<u> \_</u>	_	Position (D	2)	
Inundation Visible on Aer	0 3	(Б/)				<u> </u>	Shallow Aqu		(D4)	
Water-Stained Leaves (B	9)					F	<b>-</b> ' ~	aphic Relief	(D4)	
Aquatic Fauna (B13)							FAC-Neutra	Test (D5)		
Field Observations:	V	NI-	Y Daniel Grad	\						
Surface Water Present?			X Depth (inch		0.00					
Water Table Present?			Depth (inch						V	
Saturation Present? (includes capillary fringe)	Yes _ ^_	_ No	Depth (inch	nes):	0.00 W	letland Hyd	Irology Prese	nt? Yes_		No
Describe Recorded Data (stre	am gauge, i	nonitori	ng well, aerial ph	notos, pre	evious inspection	ns), if availal	ble:			
Remarks:										

Sampling	Point:	Wetland	HM-059
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		Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:	)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	2	
1					That Are OBL, FACW, or FAC:	2	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	2	(B)
4					Descent of Deminent Coories		
5					Percent of Dominant Species That Are OBL, FACW, or FAC:	100.00	(A/B)
6							(, -)
			= Total Cov		Prevalence Index worksheet:		
	50% of total cover: 0	20% of	total cover	0	Total % Cover of:	Multiply by:	
Capling Stratum (Dlat size)	4 = 1	20 % 01	total cover.		OBL species0 x ^		
Sapling Stratum (Plot size:					FACW species73 x 2	2 = 146	
1					FAC species15 x 3	3 = 45	
2					FACU species30 x 4	4 = 120	
3					UPL species 0 x 5	5 = 0	
4					Column Totals: 118 (A)	311	(B)
5						0.04	_ ` ` ′
6					Prevalence Index = B/A =_		
			= Total Cov	er	Hydrophytic Vegetation Indicat		
	50% of total cover:0	20% of	total cover:	0	X 1 - Rapid Test for Hydrophyti	-	
Shrub Stratum (Plot size:	15'				X 2 - Dominance Test is >50%		
1					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2					4 - Morphological Adaptation	ıs <sup>1</sup> (Provide sup	porting
3					data in Remarks or on a s	•	
4					Problematic Hydrophytic Veg	jetation' (Expla	in)
5.							
6					<sup>1</sup> Indicators of hydric soil and wetl	and hydrology r	nust
<u> </u>		0	= Total Cov	er	be present, unless disturbed or p		
					Definitions of Five Vegetation S	strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding v	woody vines,	
Herb Stratum (Plot size:	5')				approximately 20 ft (6 m) or more		
•		40	Y	<u>FACW</u>	(7.6 cm) or larger in diameter at b	reast neight (D	BH).
2. Scirpus cyperinus		25	Y	FACW	Sapling – Woody plants, excluding	ng woody vines	,
3. Schedonorus arundinaceus		20	N	FACU	approximately 20 ft (6 m) or more in height and le		
4. Euthamia graminifolia		10	N	FAC_	than 3 in. (7.6 cm) DBH.		
5. Solidago canadensis		10	N	FACU	Shrub – Woody plants, excluding	g woody vines,	
6. Symphyotrichum pilosum		5	N	_FAC_	approximately 3 to 20 ft (1 to 6 m	.) in height.	
7. Mentha arvensis		5	N	FACW	Herb – All herbaceous (non-wood	dv) plants, inclu	ıdina
8. Onoclea sensibilis		3	N	FACW	herbaceous vines, regardless of s	size, and woody	у
9.					plants, except woody vines, less ft (1 m) in height.	than approxima	itely 3
10					it (1 iii) iii neight.		
11					Woody vine – All woody vines, re	egardless of he	ight.
· · ·			= Total Cov				
	50% of total cover: 59	20% of	total cover:	24			
Woody Vine Stratum (Plot size	:)						
1							
2							
3							
4							
5					Hydrophytic		
		0	= Total Cov	er	Hydrophytic Vegetation		
	50% of total cover: 0				Present? Yes X	No	
Remarks: (Include photo numb							
, , , , , , , , , , , , , , , , , , ,	2 2 2 2 2 2 3 5 parato 3	**/					

Profile Desc	ription: (Describe to	o the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			Features		1 2	Tankina	Demode
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> 20	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
<u>0 - 6</u>	2.5Y 5/2		10YR 5/8			M	Clay loam	
<u>6</u> <b>–</b> 14	2.5Y 5/2	90 _	10YR 5/8	10	C	M	Clay	
_								
_								
							-	<u> </u>
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	=Masked	Sand Gra	iins.		=Pore Lining, M=Matrix.
Hydric Soil I			_					tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		/==\			cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Bel				<b>148)</b> <u></u> ∟ C	oast Prairie Redox (A16)
Black His			☐ Thin Dark Sur☐ Loamy Gleyed			47, 148)	Пп	(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		✓ Depleted Mati		F2)		<u> </u>	edmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark S		6)			ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dark					ther (Explain in Remarks)
	rk Surface (A12)	()	Redox Depres					,
	lucky Mineral (S1) <b>(L</b> l	RR N,	☐ Iron-Mangane			_RR N,		
	147, 148)		MLRA 136	5)				
	leyed Matrix (S4)		Umbric Surface					cators of hydrophytic vegetation and
	edox (S5)		Piedmont Floo	•				tland hydrology must be present,
	Matrix (S6)		Red Parent M	aterial (F	21) <b>(MLR</b>	4 127, 147	' <b>)</b> unl	ess disturbed or problematic.
	ayer (if observed):	Yes						
Type: Cla			_					
Depth (inc	ches): <u>14</u>		_				Hydric Soil	Present? Yes X No No
Remarks:								





North South





East West

**Soil Photos:** 

Wetland HM-059



soil profile

Project/Site: AEP Hillsboro to	Millbrook Park	C	Sity/County: Scioto County	Samplir	10/24/2019			
Applicant/Owner: AEP			only/County.	Sampling Date: 10/24/2019 State: OH Sampling Point: Wetland HM-060				
Investigator(s): DCS			Section Township Pange:	Ohio Surveys VIRGINIA MILITARY DI	ISTRICT OH93Scioto Lot 14579			
Landform (hillslope, terrace, et								
Subregion (LRR or MLRA): <u>LF</u>		LOC	ai reilei (concave, convex, r	-83.03190	Slope (%): <u>3 0</u>			
		Lat: 30.07001	Long:	-03.03190	Datum: <u>WGG 04</u>			
Soil Map Unit Name: Shelocta								
Are climatic / hydrologic condit								
Are Vegetation, Soil								
Are Vegetation _, Soil _	_, or Hydrolog	gy naturally prof	olematic? (If needed	l, explain any answers in Ren	narks.)			
SUMMARY OF FINDIN	GS – Attach s	site map showing	sampling point locat	ions, transects, impo	rtant features, etc.			
Hydrophytic Vegetation Pres	ent? Yes	X No	Is the Sampled Area					
Hydric Soil Present?		X No	within a Wetland?	YesNo				
Wetland Hydrology Present?		X No						
Remarks: seep fed PEM wetland on dov	vnslope side of R0	OW with water containe	d inputs and bermed along	edge of ROW				
HYDROLOGY								
Wetland Hydrology Indicate	ors:			Secondary Indicators (min	imum of two required)			
Primary Indicators (minimum	of one is required	l; check all that apply)		Surface Soil Cracks (I	B6)			
Surface Water (A1)		True Aquatic Pla	ants (B14)	Sparsely Vegetated C	Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfid	e Odor (C1)	☑ Drainage Patterns (B <sup>2</sup>	10)			
Saturation (A3)			pheres on Living Roots (C3	3) $\coprod$ Moss Trim Lines (B16	<b>i</b> )			
Water Marks (B1)		Presence of Red		Dry-Season Water Ta	ıble (C2)			
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)					
Drift Deposits (B3)			Thin Muck Surface (C7)					
Algal Mat or Crust (B4)		U Other (Explain in	n Remarks)	Stunted or Stressed F				
Iron Deposits (B5)				Geomorphic Position				
Inundation Visible on Ae				Shallow Aquitard (D3)	,			
Water-Stained Leaves (E	39)			Microtopographic Reli				
Aquatic Fauna (B13)				FAC-Neutral Test (D5	<del>)</del> )			
Field Observations:								
Surface Water Present?		X Depth (inches):						
Water Table Present?	Yes No	X Depth (inches):						
Saturation Present?	Yes X No	Depth (inches):	0.00 Wetland	d Hydrology Present? Yes	; <u>X</u> No			
(includes capillary fringe)  Describe Recorded Data (stre	oom gougo monit	toring well porial photos	nrovious inspections) if a	vailable:				
Describe Necorded Data (str	sam gauge, mom	toring well, aerial priotos	s, previous irispections), ir a	valiable.				
Remarks: Standing water present but lin	nited to tire ruts							
g								
1								

Sampling	Point:	Wetland	HM-060
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	001	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:	,	% Cover	Species?	Status	Number of Dominant Species That Are OBL FACW or FAC: 2	
1		-			That Are OBL, FACW, or FAC:	A)
2					Total Number of Dominant	
3					Species Across All Strata: 2 (I	B)
4					Percent of Dominant Species	
5						A/B)
6					Prevalence Index worksheet:	
		:	= Total Cove	er		
	50% of total cover:0	20% of	total cover:	0		
Sapling Stratum (Plot size:	15' )				OBL species 0 x 1 = 0  FACW species 61 x 2 = 122	
4	,				17.611 species x2	
2					x 5	
3					1 ACO species x 4	
4					UPL species 0 x 5 = 0	
5					Column Totals:121 (A)302	(B)
				-	Prevalence Index = B/A = 2.50	
·			= Total Cove		Hydrophytic Vegetation Indicators:	
	F00/ -ft-t-l				1 - Rapid Test for Hydrophytic Vegetation	
Observe Observer (Distriction	50% of total cover: 0	20% 01	total cover:		X 2 - Dominance Test is >50%	
Shrub Stratum (Plot size:					3 - Prevalence Index is ≤3.0¹	
1					4 - Morphological Adaptations <sup>1</sup> (Provide suppo	rting
2					data in Remarks or on a separate sheet)	rung
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4						
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	st
6		_			be present, unless disturbed or problematic.	
		:	= Total Cove	er	Definitions of Five Vegetation Strata:	
	50% of total cover:0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	)				approximately 20 ft (6 m) or more in height and 3 in	
1. Dichanthelium clandestinum	1	45	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBF	H). │
2. Scirpus cyperinus		25	Y	FACW	Sapling – Woody plants, excluding woody vines,	
3. Cyperus diandrus		15	N	FACW	approximately 20 ft (6 m) or more in height and less	s
4. Ludwigia alternifolia		3	N	FACW	than 3 in. (7.6 cm) DBH.	
5. Persicaria pensylvanica		10	N	FACW	Shrub – Woody plants, excluding woody vines,	
6. Verbesina alternifolia		15	N	FAC	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Onoclea sensibilis		5	N	FACW	Herb – All herbaceous (non-woody) plants, includir	ng
8. Woodwardia areolata		3	N	FACW	herbaceous vines, regardless of size, and woody	
9					plants, except woody vines, less than approximatel ft (1 m) in height.	уз
10						
11					Woody vine – All woody vines, regardless of heigh	nt.
		121 :	= Total Cove	er		
	50% of total cover: 61	20% of	total cover:	24		
Woody Vine Stratum (Plot size:		20 /0 01	total cover.			
1						
2						
3						
4						
5		0 :	- Total Carr		Hydrophytic	
	-		= Total Cove		Vegetation   Present?   Yes X No	
	50% of total cover: 0		total cover:	<u> </u>	100	
Remarks: (Include photo numb	ers here or on a separate s	heet.)				

Profile Desc	ription: (Describe to	o the depth	needed to docum	nent the in	dicator (	or confirm	the absence	of indicate	ors.)
Depth	Matrix			x Features	- 1				
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks
<u>0 — 9</u>	2.5Y 5/2	85	10YR 4/6	15	C	PL_	Clay loam	PL/M	
_									
				-					
_									
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RM=R	educed Matrix. MS	= S=Masked S	Sand Gra	ains	<sup>2</sup> Location: Pl	=Pore Lini	ing, M=Matrix.
Hydric Soil I		50011, 17011 17	oddodd WidthX, Wie	, maokoa (	Sana Ore	aii 10.			roblematic Hydric Soils <sup>3</sup> :
☐ Histosol			☐ Dark Surface	(S7)					A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be	, ,	- (S8) <b>(N</b>	II RA 147			e Redox (A16)
Black His			Thin Dark Su				140, 0	(MLRA 14	
	n Sulfide (A4)		Loamy Gleye			47, 140)	Пр		oodplain Soils (F19)
	I Layers (A5)		✓ Depleted Mat		<b>~</b> )		<u> </u>	(MLRA 13	
	ck (A10) <b>(LRR N)</b>		Redox Dark	, ,	1				v Dark Surface (TF12)
	Below Dark Surface	(111)		•					in in Remarks)
	rk Surface (A12)	(ATT)	Depleted Dar					ше (Ехріа	III III Remarks)
_		DD N	Redox Depre			DD N			
-	lucky Mineral (S1) (LI	RK N,	☐ Iron-Mangan		s (F12) (I	LKK N,			
	147, 148)		MLRA 13			0 400)	31 1		
	leyed Matrix (S4)		Umbric Surfa						ydrophytic vegetation and
	edox (S5)		Piedmont Flo						plogy must be present,
	Matrix (S6)		Red Parent N	laterial (F2	1) <b>(MLR</b>	A 127, 147	') unl	ess disturb	ed or problematic.
	ayer (if observed):	Yes							
Type: roo									
Depth (inc	ches): <u>9</u>		_				Hydric Soil	Present?	Yes <u>X</u> No
Remarks:							•		
Soil saturated	1								





north east





south west

Soil Photos:

Wetland HM-060





soil profile soil profile

Project/Site: AEP Hillsboro to	Millbrook Pa	ırk		City/C	County: Scioto			Sampling	ı Date. 10	)/28/2019
Applicant/Owner: AEP				_ 010,70		St	tate. OH	Samnli	ina Point	Wetland HM-061
Investigator(s): MJA, DMS				Section	on, Township, Rar	nge: Ohio Su	rveys VIRGINIA I	Sampii MILITARY DIS	STRICT OH!	93Scioto Lot 1455
Landform (hillslope, terrace, et	C) Lowland		1	ocal reli	ief (concave, conv	vex none).	Flat		Slone	(%)· 0
Subregion (LRR or MLRA): <u>LF</u>	o.,. R N		 Lat: 38.86945	_0001101	Lond	a.	-83	01849	— Datum	WGS 84
Soil Map Unit Name: Peoga si	It loam_rarel	v floode	d		LON	9	NIMI classific	nation: PU	BGx	
Are climatic / hydrologic condit				voor2 V						
				-			cumstances" p		voc X	No
Are Vegetation, Soil	_		_	-			ain any answe			NO
Are Vegetation _, Soil _	_, or Hyc	liology _	naturally p	Jiobiema	auc? (ii ne	eded, expla	an any answe	rs in Rema	arks.)	
SUMMARY OF FINDIN	GS – Atta	ch site	e map showir	ng sam	npling point lo	ocations,	, transects	, import	ant fea	tures, etc.
Hydrophytic Vegetation Prese	ent?	Yes	X No	_	Is the Sampled	Δrea	.,			
Hydric Soil Present?			X No		within a Wetlan		YesX	No _		
Wetland Hydrology Present?			X No							
Remarks:										
PEM wetland surrounding sma	all duckweed	l-covere	d pond in maintai	ned junk	yard.					
			•	•	•					
HYDROLOGY										
Wetland Hydrology Indicate	ore:					Soc	condary Indica	ators (minir	mum of tw	o roquirod)
3 33		سنتمط ما	hook all that apply	٨		<u>3ec</u>	,			<u>ro requirea)</u>
Primary Indicators (minimum  Surface Water (A1)	or one is req	<u>juireu; ci</u> I	_		D14)	ㅡ 片	Surface Soil	•	•	urfo oo (DO)
Surface Water (A1)  High Water Table (A2)			True Aquatic			片	Sparsely Ve	-		mace (B8)
Saturation (A3)		ï	Hydrogen Su		or (CT) es on Living Roots	. (C2) H	Drainage Pa			
Water Marks (B1)		ļ	Presence of		•	s (C3)	Moss Trim L Dry-Season			
Sediment Deposits (B2)		i			on in Tilled Soils (C	~e\	Crayfish Bur		ile (CZ)	
Drift Deposits (B3)		i	Thin Muck Su			"	Saturation V		orial Imac	rory (C0)
Algal Mat or Crust (B4)		i	Other (Explai			一片	Stunted or S		-	Jery (Ca)
Iron Deposits (B5)		J	Otrici (Expidi	III III IXCI	narks)	H	Geomorphic			
Inundation Visible on Ae	rial Imagery (	(B7)				一	Shallow Aqu		JL)	
Water-Stained Leaves (E	0 3	(57)				Ħ	Microtopogra		₂f (D4)	
Aquatic Fauna (B13)	,0,					讨	FAC-Neutral	•		
Field Observations:							- THO INCULTAR	1031 (100)		
Surface Water Present?	voc X	No	Depth (inche	).	1.00					
Water Table Present?					1.00					
			Depth (inche				. I		×	NI.
Saturation Present? (includes capillary fringe)	Yes^_	_ NO	Depth (inche	es):	<u>0.00</u> we	tiana Hyar	ology Preser	it? Yes_		No
Describe Recorded Data (stre	eam gauge, i	monitorii	ng well, aerial pho	otos, pre	vious inspections)	), if available	e:			
Remarks:										

Sampling Poir	nt: Wetland HM-06
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	001	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2					T. IN
3					Total Number of Dominant Species Across All Strata:  2 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC:100.00 (A/B)
6					That are OBL, FACW, or FAC.
<u> </u>			- Total Cove		Prevalence Index worksheet:
	FOO/ of total cover.				Total % Cover of: Multiply by:
0 1 0 1 70 1	50% of total cover: 0	20% or	total cover:_		OBL species120 x 1 =120
Sapling Stratum (Plot size:					FACW species0
1					FAC species0 x 3 =0
2					FACU species0
3					UPL species0 x 5 =0
4					Column Totals:120 (A)120 (B)
5					
6			 = Total Cove		Prevalence Index = B/A =1.00  Hydrophytic Vegetation Indicators:
	500/ ()				X 1 - Rapid Test for Hydrophytic Vegetation
	50% of total cover: 0	20% of	total cover:_		X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:					$\frac{X}{X}$ 3 - Prevalence Index is $\leq 3.0^{1}$
1					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cove	r	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:_	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	)				approximately 20 ft (6 m) or more in height and 3 in.
•		65	<u> </u>	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex frankii		35		OBL	Sapling – Woody plants, excluding woody vines,
3. Typha latifolia		15	<u>N</u>	OBL	approximately 20 ft (6 m) or more in height and less
4. Lemna minor		5	<u>N</u> .	OBL	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11					<b>Woody vine</b> – All woody vines, regardless of height.
		120	= Total Cove	r	
	50% of total cover: 60	20% of	total cover:	24	
Woody Vine Stratum (Plot size					
1					
2					
3					
··					
o		0	- Total Cove		Hydrophytic
	T00/ of total			_	Vegetation Present? Yes X No
Demondra (I. I. I	50% of total cover: 0	<del></del> "	iotai cover:_	<u> </u>	
Remarks: (Include photo numb	iers nere or on a separate s	neet.)			

Depth	Matrix	%		K Features		Loc <sup>2</sup>	Toytura	Domarka
inches)	Color (moist) 10YR 4/2	90	Color (moist) 5YR 4/4	<u>%</u> 20	<u>Type<sup>1</sup></u> C	Loc <sup>-</sup> _	Texture Silty loam	Remarks Prominent redox concentrations
0 - 3								
<b>–</b> 12	2.5Y 4/1	80	5YR 4/4	20	C	PL	Clay loam	Prominent redox concentrations
2 <b>—</b> 18	2.5Y 4/1	95	5YR 4/4	5	C	PL	Clay loam	Prominent redox concentrations
_								
_								
_								
vne: C-Co	ncentration D-Den	letion RM-	Reduced Matrix, MS		Sand Gra	nins	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
	ndicators:	iction, ixivi=	reduced Matrix, Me	- Waskea	Suria Gre	11113.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			■ Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
_	ipedon (A2)		Polyvalue Be		e (S8) <b>(N</b>	ILRA 147,		coast Prairie Redox (A16)
Black His	•		Thin Dark Su					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye				<u>П</u> Р	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	•				ery Shallow Dark Surface (TF12)
- '	Below Dark Surfac	e (A11)	Depleted Dar				.∐ 0	ther (Explain in Remarks)
_	rk Surface (A12)		Redox Depre					
	ucky Mineral (S1) (I	₋RR N,	☐ Iron-Mangane		es (F12) <b>(</b> I	_RR N,		
_	147, 148)		MLRA 130		WI DA 40	0 400\	31	:
	leyed Matrix (S4) edox (S5)		<ul><li>☐ Umbric Surfa</li><li>☐ Piedmont Flo</li></ul>					icators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	ayer (if observed):	No	recurrence.	iateriai (i z	-1) (101214			problematic.
Туре:	<b>,</b> (, -	110						
	:hes):		<del></del>				Hydric Soil	Present? Yes X No
emarks:			<del></del>				Tryune son	Tresent. res No
emarks.								











Project/Site: AEP Hillsboro to	Millbrook F	ark			City/C	ounty. Scioto			Sampling	n Date: 10	)/28/2019
Applicant/Owner: AEP				_	Oity/ O	ounty: Scioto		State: OH	_ Samol	ina Point	Wetland HM-062
Investigator(s): MJA, DMS					Section	on, Township, R	ange: T3	N R 21 W S 3	Sampi I	ing round	
Landform (hillslope, terrace, et	 ر )، Lowlan									Slone	· (%)· 0
Subregion (LRR or MLRA): <u>LF</u>	o.,. RR N		Lat	38.86482	ocar ren	Lo	na.	-82	99229	Slobe	WGS 84
Soil Map Unit Name: Fitchville	silt loam (	) to 3 pe	rcent	slones			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NIMI classi	ication: PF	_ Dataiii. O1A	
Are climatic / hydrologic condit											
Are Vegetation, Soil								Circumstances		voc X	No
								plain any answ	•		NO
Are Vegetation _, Soil _	_, 01 H)	<i>f</i> urology	′	naturally pro	obienia	ilic? (II i	ieeded, ex	piairi ariy arisv	ers in Remi	arks.)	
SUMMARY OF FINDIN	GS – Att	ach si	te m	nap showing	g sam	pling point	location	ıs, transect	s, import	tant fea	tures, etc.
Hydrophytic Vegetation Prese	ent?	Yes	Х	No		Is the Sample	d Aroa				
Hydric Soil Present?				No		within a Wetla		Yes	<u> </u>		
Wetland Hydrology Present?											
Remarks:											
PEM data point within a PEM/	PSS comp	lex. PSS	S frinc	ie flanks PEM o	on east	and west edges	s. Epheme	ral stream flow	s through ce	enter.	
·	•			•		Ü	•		Ü		
LIVEROLOGY											
HYDROLOGY											
Wetland Hydrology Indicato							_	Secondary Indi			<u>/o required)</u>
Primary Indicators (minimum	of one is re	<u>:quired;</u>	chec				<u> </u>	✓ Surface Sc			
Surface Water (A1)			$\sqcup$	True Aquatic P			ļ		egetated Co		ırface (B8)
High Water Table (A2)			片	Hydrogen Sulfi			Ļ	_	atterns (B1		
Saturation (A3)			씀		•	es on Living Roo	ots (C3) <u>L</u>		Lines (B16)		
Water Marks (B1)			$\vdash$	Presence of Re			<u>L</u>	_ `	n Water Tab	ole (C2)	
Sediment Deposits (B2)			$\vdash$			n in Tilled Soils	(C6) <u>L</u>	Crayfish Bu			
Drift Deposits (B3)			$\vdash$	Thin Muck Sur			L	_	Visible on A	-	
Algal Mat or Crust (B4)			Ш	Other (Explain	in Ren	narks)	Ļ	_	Stressed Pl		
Iron Deposits (B5)							<u> </u>		c Position (	D2)	
Inundation Visible on Ae	0 3	į (B7)					Ţ	Shallow Ac		5 (= ·)	
Water-Stained Leaves (E	39)						Ļ		raphic Relie		
Aquatic Fauna (B13)							<u>[</u>	✓ FAC-Neutr	al Test (D5)		
Field Observations:											
Surface Water Present?				Depth (inches							
Water Table Present?				Depth (inches							
Saturation Present?	Yes	No _	X	Depth (inches	s):	w	etland Hy	drology Pres	ent? Yes	<u> </u>	No
(includes capillary fringe)  Describe Recorded Data (stre	eam naune	monito	rina v	vell aerial nhoto	ns nre	vious inspection	s) if availa	ahle.			
Describe Necorded Bala (Silv	sam gaage,	THOTILO	inig v	veii, deriai priot	03, pro	vious irispection	is), ii avaiit	abic.			
Remarks:											
Remarks.											

Sampling F	oint:	Wetland	HM-062
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	001	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2					
3					Total Number of Dominant Species Across All Strata:  2 (B)
4					Species Neross Air Strata.
5					Percent of Dominant Species That Are OBL FACW or FAC: 100.00 (A/B)
6					That Are OBL, FACW, or FAC: (A/B)
o			= Total Cov		Prevalence Index worksheet:
	500/ 51 1 0				Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:		OBL species 100 x 1 = 100
Sapling Stratum (Plot size:	)				FACW species11 x 2 =22
					FAC species1 x 3 = 3
2					FACU species0 x 4 =0
3					UPL species0 x 5 =0
4					Column Totals:112 (A)125 (B)
5					Prevalence Index = B/A = 1.12
0			= Total Cov		Hydrophytic Vegetation Indicators:
	500/ - 51-1-1				X 1 - Rapid Test for Hydrophytic Vegetation
Claude Charles (Diet ains	50% of total cover: 0	20% 01	total cover:		X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:					X 3 - Prevalence Index is ≤3.0¹
1					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0		0	= Total Cov		be present, unless disturbed or problematic.
	500/ -f t-t-l				Definitions of Five Vegetation Strata:
Hards Chartering (Dist size	50% of total cover:0_ 5')	20% 01	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	, ,	0.5	V	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
				OBL OBL	(7.0 cm) of larger in diameter at breast neight (BBH).
Hibiscus moscheutos     Carex tribuloides		35		FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
<u> </u>		10	N		than 3 in. (7.6 cm) DBH.
4. Xanthium strumarium		1	N	FACW	
<ul><li>5. Echinochloa muricata</li><li>6</li></ul>			N	<u> </u>	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
11					Woody vine – All woody vines, regardless of height.
11			= Total Cov		
	500/ 51 1 50				
	50% of total cover: 56	20% of	total cover:		
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5			Tet-1.0		Hydrophytic
	500/ 51:1		= Total Cov	_	Vegetation   Present?   Yes X No
	50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numb	ana lagua arrere e d	le o o è `			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
<u>0 - 2</u>	10YR 3/2		7.5YR 4/6	3	C	PL_	Silty loam	Prominent redox concentrations
2 <b>–</b> 18	10YR 4/2	90	7.5YR 4/6	10	C	PL	Clay loam	Prominent redox concentrations
_								
_								
1= 0.0							21	
Hydric Soil I	ncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	s=Masked	Sand Gra	ains.		_=Pore Lining, M=Matrix. stors for Problematic Hydric Soils <sup>3</sup> :
Histosol			■ Dark Surface	(07)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		~e (S8) <b>(N</b>	II RΔ 147		oast Prairie Redox (A16)
Black His	•		Thin Dark Su				140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			,,	□P	iedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mat		,		<del></del>	(MLRA 136, 147)
_	ck (A10) (LRR N)		Redox Dark S					ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				_∐ ○	ther (Explain in Remarks)
	rk Surface (A12)	DD N	Redox Depre			L DD N		
	ucky Mineral (S1) <b>(L</b> . <b>147, 148)</b>	RR N,	☐ Iron-Mangane MLRA 136		es (F12) (	LRR N,		
	leyed Matrix (S4)		Umbric Surfa		MIRA 13	6 122)	<sup>3</sup> Ind	cators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	•				ess disturbed or problematic.
Restrictive L	ayer (if observed):	No						·
Туре:								
Depth (inc	:hes):						Hydric Soil	Present? Yes X No No
Remarks:								











Project/Site: AEP Hillsboro to	Millbrook Park		City/County: So	cioto	Sar	mpling Date:	0/28/2019
Applicant/Owner: AEP					State: OH S	Sampling Point:	Wetland HM-063
Investigator(s): MJA, DMS			Section, Towns			- apg a	
Landform (hillslope, terrace, et						Slope	(%): 1
Subregion (LRR or MLRA): <u>LF</u>	RR N	Lat: 38.86457	(	Lona:	-82.9919	8 Datum:	WGS 84
Soil Map Unit Name: Fitchville					NWI classification		
Are climatic / hydrologic condit							
Are Vegetation, Soil					Circumstances" prese		No
Are Vegetation _, Soil _					xplain any answers in		
_, een	_, 0 y a. 0,09	<u></u> a.a.ay	problematio.	(11.1.00000, 0.	Apiani any anonorona	· tomamoi,	
<b>SUMMARY OF FINDIN</b>	GS – Attach s	ite map showi	ng sampling p	oint locatio	ns, transects, im	portant fea	tures, etc.
Hydrophytic Vegetation Pres		X No		ampled Area	X		
Hydric Soil Present?		X No		Wetland?	YesX	No	
Wetland Hydrology Present?	Yes _	No					
Remarks:							
PSS data point within a PEM/ of wetland.	PSS complex. PSS	S fringe flanks PEN	I on east and west	edges. Row cro	ps directly west of we	tland, highway	directly east
or wettand.							
HYDROLOGY							
Wetland Hydrology Indicate	ors:				Secondary Indicators	(minimum of tw	vo required)
Primary Indicators (minimum		· check all that ann	lv)		Surface Soil Crac		<u>ro roquirou j</u>
Surface Water (A1)	or one is required.		c Plants (B14)		Sparsely Vegetat	` '	ırface (B8)
High Water Table (A2)			ulfide Odor (C1)		Drainage Patterns		mace (Bo)
Saturation (A3)			nizospheres on Livir	na Roots (C3)	Moss Trim Lines	` '	
Water Marks (B1)			Reduced Iron (C4)		Dry-Season Wate		
Sediment Deposits (B2)			Reduction in Tilled		Crayfish Burrows		
Drift Deposits (B3)			Surface (C7)	(,	Saturation Visible		gery (C9)
Algal Mat or Crust (B4)			ain in Remarks)		Stunted or Stress		
Iron Deposits (B5)					Geomorphic Posi	ition (D2)	
Inundation Visible on Ae	rial Imagery (B7)				☐ Shallow Aquitard	(D3)	
Water-Stained Leaves (E	39)				Microtopographic	Relief (D4)	
Aquatic Fauna (B13)					✓ FAC-Neutral Test	t (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	nes):				
Water Table Present?	Yes No	X Depth (inch	nes):				
Saturation Present?	Yes No	X Depth (inch	nes):	Wetland H	ydrology Present?	Yes X	No
(includes capillary fringe)  Describe Recorded Data (str	oam gaugo, monit	oring wall parial ph	notos provious insr	octions) if avai	labla:		
Describe Necorded Data (str	sam gauge, monit	oning wen, aenai pi	lotos, previous irisp	ections), ii avai	iable.		
Demontos							
Remarks:							

Sampling Poir	t: Wetland HM-063
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	0.01		Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2					
3					Total Number of Dominant Species Across All Strata:  4 (B)
4					(b)
					Percent of Dominant Species That Are ORL FACW or FAC: 100.00 (A/R)
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
0			Total Cove		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:_	0	OBL species130 x 1 =130
Sapling Stratum (Plot size:	)				FACW species 20 x 2 = 40
1. Fraxinus pennsylvanica		20		FACW	FAC species0 x 3 =0
2. Salix nigra		30	Y	OBL	FACU species0 x 4 =0
3					UPL species
4					4=0
5					Column Totals:150 (A)170 (B)
6					Prevalence Index = B/A = 1.13
		50=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	50% of total cover: 25	20% of	total cover:	10	X 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:			_	<u> </u>	X 2 - Dominance Test is >50%
Cephalanthus occidentalis		15	Υ	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		15 =	= Total Cove	r	Definitions of Five Vegetation Strata:
	50% of total cover: 8	20% of	total cover:_	3	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5' )				approximately 20 ft (6 m) or more in height and 3 in.
1. Persicaria amphibia		50	<u> </u>	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Hibiscus moscheutos		15	N	OBL	Sapling – Woody plants, excluding woody vines,
3. Lycopus americanus		15	N	OBL	approximately 20 ft (6 m) or more in height and less
4. Typha latifolia		5	N	OBL	than 3 in. (7.6 cm) DBH.
5.					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
					herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		85=	= Total Cove	r	
	50% of total cover: 43	20% of	total cover:_	17	
Woody Vine Stratum (Plot size:	30' )				
1					
2					
3					
4					
υ		0 =			Hydrophytic
			= Total Cove		Vegetation   Present?   Yes X No
	50% of total cover:0	20% of	total cover:_	0	1 163 NO
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<u>0 — 6</u>	10YR 3/2	90	2.5YR 3/6	10	C	PL	Loam	Prominent redox concentrations
6 — 18	10YR 4/2	90 _	5YR 4/6	10	C	PL	Clay loam	Prominent redox concentrations
_								
<sup>1</sup> Type: C=Cc	ncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
_	ipedon (A2)		Polyvalue Be				148) <u> </u>	Coast Prairie Redox (A16)
Black His			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)		<ul><li>Loamy Gleye</li><li>Depleted Ma</li></ul>		F2)		<u> </u>	iedmont Floodplain Soils (F19) (MLRA 136, 147)
=	ck (A10) <b>(LRR N)</b>		Redox Dark		6)		Пν	'ery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	✓ Depleted Dar					Other (Explain in Remarks)
	rk Surface (A12)	,	Redox Depre				<del></del>	,
☐ Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR N,		
	. 147, 148)		MLRA 13					
	leyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6) ayer (if observed):		Red Parent N	/laterial (F	21) (MLR	A 127, 14	/) un	less disturbed or problematic.
	.ayer (ii observed).	No						
Type:	I V		_					D
	ches):		_				Hydric Soil	Present? Yes X No No
Remarks:								











Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto Sampling Date: 10/30/2019
Applicant/Owner: AEP	State: OH Sampling Point: Wetland HM-064
Investigator(s): MJA, DMS	Section, Township, Range: T 2 N R 21 W S 5
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): LRR N Lat: 38.85	8864 Long: -82.98539 Datum: WGS 84
Soil Map Unit Name: Haymond silt loam, occasionally floode	
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signature.	gnificantly disturbed?  Are "Normal Circumstances" present? Yes X No No
Are Vegetation _, Soil, or Hydrology na	turally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	
Remarks:	
PEM wetland trisected by narrow upland buffers. Isolated po	ockets of standing water and cattail. Located along Candy Run, near water treatment plant.
	<b>3</b> , ,
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	
	Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
	ogen Sulfide Odor (C1)  Drainage Patterns (B10)  Drainage Patterns (B10)
	zed Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) ence of Reduced Iron (C4) Dry-Season Water Table (C2)
	ence of Reduced Iron (C4)  Int Iron Reduction in Tilled Soils (C6)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
	Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
	(Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Dept	th (inches):3.00
Water Table Present? Yes X No Dept	h (inches):0
Saturation Present? Yes X No Dept	th (inches):0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	and a later and a second a second and a second a second and a second a
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if available:
Remarks;	
Remarks.	

Sampling	Point:	Wetland	HM-064
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	001	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:	30' )		Species?		Number of Dominant Species
1. Salix nigra		5	Y	OBL_	That Are OBL, FACW, or FAC:3 (A)
2					Total Number of Dominant
3					Species Across All Strata:3 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
^					
		5	= Total Cov	er	Prevalence Index worksheet:
	50% of total cover: 2	20% of	total cover	1	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:		20 /0 01	total cover.	<u> </u>	OBL species20 x 1 =20
					FACW species43 x 2 =86
1					FAC species80 x 3 =240
2					FACU species1 x 4 =4
3					UPL species0 x 5 =0
4					Column Totals:144 (A)350 (B)
5		·			
6					Prevalence Index = B/A =2.43
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				X 2 - Dominance Test is >50%
1					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					
S					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0		0	= Total Cov		be present, unless disturbed or problematic.
					Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	<del></del> '				approximately 20 ft (6 m) or more in height and 3 in.
		1	<u>N</u>	<u>FACU</u>	(7.6 cm) or larger in diameter at breast height (DBH).
2. Mimulus alatus		5	N	OBL	Sapling – Woody plants, excluding woody vines,
3. Typha latifolia		10	N	OBL_	approximately 20 ft (6 m) or more in height and less
4. Populus deltoides		15	N	FAC_	than 3 in. (7.6 cm) DBH.
5. Juncus effusus		18	N	FACW	Shrub – Woody plants, excluding woody vines,
6. Phalaris arundinacea		25	Y	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Arthraxon hispidus		65	Υ	FAC	<b>Herb</b> – All herbaceous (non-woody) plants, including
8.					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10.					it (1 III) iii neight.
11.					Woody vine - All woody vines, regardless of height.
11		130	= Total Cov		
	50% of total cover: 70	20% of	total cover:	28	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
4					
5		. <u></u>			Livelinembydie
		0	= Total Cov	er	Hydrophytic Vegetation
	50% of total cover:	20% of	total cover	0	Present? Yes X No
Remarks: (Include photo numb	50% of total cover: 0		total cover:	0	Present? Yes^_ No

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			<ul> <li>Features</li> </ul>				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
<u>0 - 5</u>	10YR 5/2	95	5YR 4/6	5	C	PL_	Silty Ioam	Prominent redox concentrations
<u>5</u> <b>–</b> 18	10YR 5/3	65	5YR 4/6	5	C	PL	Silty loam	Prominent redox concentrations
5 <b>—</b> 18	10YR 5/2	30						
_								
_								
¹Type: C=Co	ncentration, D=Depl	etion RM=F	Reduced Matrix MS	=Masked	Sand Gra	ains	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.
Hydric Soil I		euon, ravi–i	reduced Matrix, Mc	- Waskeu	Sand Or	all 13.		ators for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol			☐ Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Bel		e (S8) <b>(N</b>	ILRA 147.		oast Prairie Redox (A16)
Black His			Thin Dark Sui				, <del>_</del>	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			,	☐ Pi	iedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mat		ŕ			(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6	3)		□ ∨	ery Shallow Dark Surface (TF12)
Depleted	Below Dark Surface	e (A11)	Depleted Dar	k Surface	(F7)		□ 0	ther (Explain in Remarks)
☐ Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	5)			
Sandy M	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangane	ese Masse	s (F12) (	LRR N,		
MLRA	. 147, 148)		MLRA 136	3)				
Sandy G	leyed Matrix (S4)		Umbric Surface	ce (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> lndi	icators of hydrophytic vegetation and
_	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(MLR</b>	A 127, 147	') unl	ess disturbed or problematic.
Restrictive L	.ayer (if observed):	No						
Type:			_					
Depth (inc	:hes):						Hydric Soil	Present? Yes X No
Remarks:								









**Soil Photos:** 

Wetland HM-064



soil profile

Project/Site: AEP Hillsboro to Millbrook Park City/C				County: Scioto		Sampling Date:		
Applicant/Owner: AEP					State: OH	Sampli	ing Point: Wetland HM-065	
Investigator(s): MJA, DMS Sec					on, Township, Rand			g
Landform (hillslope, terrace, et	.c.): Toesl	ope		Local rel	ief (concave, conve	x, none): Concave		Slope (%): 1
Subregion (LRR or MLRA): <u>LF</u>			Lat: 🤇	38.85773	Long:	-82	2.98458	Datum: WGS 84
Soil Map Unit Name: Ockley lo				3		NWI classi	ification: N/F	Ā
Are climatic / hydrologic condit								
Are Vegetation, Soil				-		ormal Circumstances		Yes X No
				_ naturally problema		ded, explain any ansv	•	
SUMMARY OF FINDIN	GS – At	ttach s	ite ma	ap showing san	npling point lo	cations, transect	ts, import	ant features, etc.
Hydrophytic Vegetation Presi	ent?	Yes	Х	No	lo the Commission A	1		
Hydric Soil Present?				No	Is the Sampled A within a Wetland	i? Yes	X No_	
Wetland Hydrology Present?				No				
Remarks:					I			
PEM within gulley, under t-line	e. ~500 fe	et from w	ater tre	eatment plant.				
HYDROLOGY								
Wetland Hydrology Indicate	ors:					Secondary Indi	cators (minir	mum of two required)
Primary Indicators (minimum	of one is	required;	check	all that apply)		Surface So	oil Cracks (B	6)
Surface Water (A1)		•		Frue Aquatic Plants (	(B14)	Sparsely V	egetated Cc	oncave Surface (B8)
High Water Table (A2)				Hydrogen Sulfide Od			Patterns (B10	
Saturation (A3)				Oxidized Rhizospher			Lines (B16)	
Water Marks (B1)				Presence of Reduce	•		n Water Tab	
Sediment Deposits (B2)			F	Recent Iron Reduction	on in Tilled Soils (C6	6) 🔲 Crayfish B	urrows (C8)	
Drift Deposits (B3)				Γhin Muck Surface (0	C7)	Saturation	Visible on A	erial Imagery (C9)
Algal Mat or Crust (B4)				Other (Explain in Rer	marks)	$\square$ Stunted or	Stressed Pla	ants (D1)
Iron Deposits (B5)						✓ Geomorph	ic Position ([	D2)
Inundation Visible on Ae	rial Image	ery (B7)				Shallow Ac	quitard (D3)	
Water-Stained Leaves (E	39)						graphic Relie	ef (D4)
Aquatic Fauna (B13)						✓ FAC-Neutr	ral Test (D5)	
Field Observations:								
Surface Water Present?				Depth (inches):				
Water Table Present?	Yes _>	X No		Depth (inches):	0			
Saturation Present?	Yes _>	X No		Depth (inches):	0 Wetla	and Hydrology Pres	ent? Yes	X No
(includes capillary fringe)  Describe Recorded Data (stre	eam gaug	je, monito	oring we	ell, aerial photos, pre	evious inspections),	if available:		
Remarks:								
Ī								

Sampling Point: Wetland HM-065
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	001	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:1.			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:  2 (A)	
2						
3					Total Number of Dominant Species Across All Strata: 2 (B)	
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 100.00 (A/E	3)
6					Prevalence Index worksheet:	-
			= Total Cove		Total % Cover of: Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species	
Sapling Stratum (Plot size:	15')				FACW species5	
1					FAC species 65 x 3 = 195	
2					FACU species0 x 4 =0	
3					UPL species 0 x 5 = 0	
4					Column Totals: 130 (A) 265 (B	۵.
5					Column Totals (A) (B)	,
6					Prevalence Index = B/A = 2.04	
			= Total Cove		Hydrophytic Vegetation Indicators:	
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15'				X 2 - Dominance Test is >50%	
1					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2					<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supportir data in Remarks or on a separate sheet)</li> </ul>	าg
3					Problematic Hydrophytic Vegetation¹ (Explain)	
4					Problematic Prydrophytic Vegetation (Explain)	
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
6					be present, unless disturbed or problematic.	
			= Total Cove	er	Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	5')				approximately 20 ft (6 m) or more in height and 3 in.	
1. Arthraxon hispidus		60	Y	_FAC	(7.6 cm) or larger in diameter at breast height (DBH).	
2. Acorus americanus		40	Y	OBL	Sapling – Woody plants, excluding woody vines,	
3. Carex frankii		15	N	OBL	approximately 20 ft (6 m) or more in height and less	
4. Phalaris arundinacea		5	N	FACW	than 3 in. (7.6 cm) DBH.	
5. Carex Iurida		5	N	OBL	Shrub – Woody plants, excluding woody vines,	
6. Microstegium vimineum		5	N	_FAC	approximately 3 to 20 ft (1 to 6 m) in height.	
7					Herb – All herbaceous (non-woody) plants, including	
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3	,
9					ft (1 m) in height.	)
10					West to all the second	
11					<b>Woody vine</b> – All woody vines, regardless of height.	
		130	= Total Cove	er		
	50% of total cover: 65	20% of	total cover:	26		
Woody Vine Stratum (Plot size	· · · · · · · · · · · · · · · · · · ·	<u></u>	-			
1						
2						
3						
5.						
		0	= Total Cove	er	Hydrophytic Vegetation	
	50% of total cover: 0			_	Present? Yes X No	
Remarks: (Include photo numb	·		.5.67 60 7 61.			_
(add prioto ridino	and a sopurate si	/				

Profile Description: (Describe to the	depth needed to docun	nent the indicato	r or confirn	the absence	of indicators.)
Depth Matrix	Redox	x Features		_	
(inches) Color (moist) 9		<u>%</u> <u>Type</u> <sup>1</sup>		<u>Texture</u>	Remarks
0 — 12 10YR 4/2 9	5 5YR 4/6	5 C	_ PL	Clay loam	Prominent redox concentrations
_					
_ <del>_</del>					
_					
<u> </u>					
<sup>1</sup> Type: C=Concentration, D=Depletion	, RM=Reduced Matrix, MS	S=Masked Sand G	Grains.	<sup>2</sup> Location: Pl	_=Pore Lining, M=Matrix.
Hydric Soil Indicators:	•				tors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface	e (S7)		<u> </u>	cm Muck (A10) <b>(MLRA 147)</b>
Histic Epipedon (A2)		low Surface (S8)			oast Prairie Redox (A16)
Black Histic (A3)		ırface (S9) <b>(MLRA</b>	147, 148)	_	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye			<u> </u>	edmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Mat				(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark S				ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A1 Thick Dark Surface (A12)	Redox Depre	rk Surface (F7)		<u></u> Ц 0	ther (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N		ese Masses (F12)	(I DD N		
MLRA 147, 148)	MLRA 130		(LIXIX IV,		
Sandy Gleyed Matrix (S4)		ice (F13) <b>(MLRA</b> 1	36. 122)	<sup>3</sup> Indi	cators of hydrophytic vegetation and
Sandy Redox (S5)		oodplain Soils (F19			tland hydrology must be present,
Stripped Matrix (S6)		Naterial (F21) <b>(ML</b>			ess disturbed or problematic.
Restrictive Layer (if observed): Yes					·
Type: Gravel/clay					
Depth (inches): 12				Hydric Soil	Present? Yes X No
Remarks:					
Kemane					









Soil Photos:

Wetland HM-065



soil profile

Project/Site: AEP Hillsboro to	Millbrook Park	City/C	County. Scioto	Samplin	ng Date: 10/30/2019
Applicant/Owner: AEP		Oily/o	odinty.	State: OH Samp	oling Point: Wetland HM-066
Investigator(s): MJA, DMS		Section		Jillig F Ollit	
Landform (hillslope, terrace, et	c.). Lowland	Local rel	ief (concave_convex_non	ne). Flat	Slone (%)· 1
Subregion (LRR or MLRA): <u>LR</u>	R N	Lat: 38.85357	Long:	-82.98203	Datum: WGS 84
Soil Map Unit Name: Ockley Ic				NWI classification: R	
Are climatic / hydrologic condit					
Are Vegetation, Soil				Circumstances" present?	
Are Vegetation, Soil				explain any answers in Rem	
, con	, or riyarology		(ii ficeded, c	Apidin any answers in real	iano.
SUMMARY OF FINDING	GS – Attach sit	e map showing san	npling point locatio	ns, transects, impor	rtant features, etc.
		V N			
Hydrophytic Vegetation Prese		X No	Is the Sampled Area within a Wetland?	Yes X	
Hydric Soil Present?		X No X No	within a welland?	resNO_	
Wetland Hydrology Present?	res	NO			
Remarks:				DOM.	
PEM data point in between tw	o intermittent strear	ns. Located under 1-line, f	lanked by woods outside	ROW.	
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (min	imum of two required)
Primary Indicators (minimum		check all that annly)		Surface Soil Cracks (E	
Surface Water (A1)	or one is required, t	True Aquatic Plants (	(D14)	Sparsely Vegetated C	<i>'</i>
High Water Table (A2)		Hydrogen Sulfide Od	· ·	Drainage Patterns (B1	
Saturation (A3)		<u> </u>	es on Living Roots (C3)	Moss Trim Lines (B16	*
Water Marks (B1)		Presence of Reduced	=	Dry-Season Water Ta	
Sediment Deposits (B2)		Recent Iron Reduction	, ,	Crayfish Burrows (C8)	
Drift Deposits (B3)		Thin Muck Surface (0		Saturation Visible on A	
Algal Mat or Crust (B4)		Other (Explain in Rer		Stunted or Stressed P	
Iron Deposits (B5)		Other (Explain in real	namo)	Geomorphic Position	· ·
Inundation Visible on Aer	ial Imagery (B7)			Shallow Aquitard (D3)	, ,
Water-Stained Leaves (E				Microtopographic Reli	
Aquatic Fauna (B13)	<b>0</b> )			FAC-Neutral Test (D5	
Field Observations:					')
Surface Water Present?	Yes No	X Depth (inches):			
Water Table Present?			16.00		
Saturation Present?		Depth (inches):		lydrology Present? Yes	X No
(includes capillary fringe)	res_ <u>^_</u> No_	Deptil (iliches)	wettallu n	ydrology Fresent? Tes	NO
Describe Recorded Data (stre	am gauge, monitor	ing well, aerial photos, pre	evious inspections), if avai	ilable:	
Remarks:	-			-	

Sampling I	Point:	Wetland	HM-066
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	001	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
6					Prevalence Index worksheet:
			= Total Cov		Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species75 x 1 =75
Sapling Stratum (Plot size:	)				FACW species 30 x 2 = 60
1					FAC species60 x 3 =180
2					FACU species 0 x 4 = 0
3					UPL species 0 x 5 = 0
4					Column Totals: 165 (A) 315 (B)
5					(1)
					Prevalence Index = B/A =1.91
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				X 2 - Dominance Test is >50%
1					X 3 - Prevalence Index is ≤3.0¹
2					4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation¹ (Explain)
4					Problematic Hydrophytic vegetation (Explain)
5					The greatest are given by the control of the contro
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		:	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5' )				approximately 20 ft (6 m) or more in height and 3 in.
1. Arthraxon hispidus		60	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Leersia oryzoides		40	Y	OBL	Sapling – Woody plants, excluding woody vines,
3. Carex frankii		20	N	OBL	approximately 20 ft (6 m) or more in height and less
4. Juncus effusus		20	N	FACW	than 3 in. (7.6 cm) DBH.
5. Typha latifolia		10	N	OBL	Shrub – Woody plants, excluding woody vines,
6. Cyperus esculentus		10	N	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Mimulus alatus		5		OBL	Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					it (1 iii) iii neigiit.
11.					Woody vine – All woody vines, regardless of height.
		165 :	Total Cov	er	
	500/ of total covers 92				
Wester View Observer (District	50% of total cover: 83	20% 01	total cover:		
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					Hydrophytic
		:	= Total Cov	er	Vegetation
	50% of total cover:0	20% of	total cover:	0	Present? Yes X No
Remarks: (Include photo numb	pers here or on a separate s	heet.)			1

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix	0′		x Features			т .	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks Mucky
0 - 2	10YR 3/2						Silt	
<u>2 - 8</u>	Gley 1 3/10Y	95	2.5YR 3/6	5	C	PL_	Silty loam	Prominent redox concentrations
<u>8 — 18</u>	2.5Y 4/1	90	5YR 4/6	10	C	PL	Clay loam	Prominent redox concentrations
_								
			-					
			-					
	ncentration, D=Depl	etion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(00) (7)	U DA 445		cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		. , .		148) <u> </u>	coast Prairie Redox (A16)
Black His	n Sulfide (A4)		Loamy Gleye		•	47, 140)	Пв	(MLRA 147, 148) iedmont Floodplain Soils (F19)
	Layers (A5)		☐ Depleted Ma		_)		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		6)			ery Shallow Dark Surface (TF12)
Depleted	Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)		<u> </u>	other (Explain in Remarks)
_	rk Surface (A12)		Redox Depre		-			
-	ucky Mineral (S1) (L	RR N,	☐ Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	. <b>147, 148)</b> leyed Matrix (S4)		MLRA 13  Umbric Surfa		MIRA 13	6 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
Restrictive L	ayer (if observed):	No						
Type:								
Depth (inc	:hes):		_				Hydric Soil	Present? Yes <u>X</u> No
Remarks:							1	











Project/Site: AEP Hillsboro to I	Millbrook Pa	ırk		C	itv/C	ounty. Scio	to			_ Sampling	Date. 10	)/29/2019
Applicant/Owner: AEP					nty/ O	ounty		Stat				Wetland HM-067
Investigator(s): MJA, DMS				S	Section	n Townshi	n Range T2			ວັດກາຊາກ	ig i oiiic	
Landform (hillslope, terrace, etc											Slone	(%)· 10
Subregion (LRR or MLRA): <u>LR</u>												
Soil Map Unit Name: Alford silt							_ Long					
Are climatic / hydrologic condition												
							Are "Normal				. X	No
Are Vegetation, Soil										•		NO
Are Vegetation _, Soil _	_, or Hyc	liology		riaturally prob	пеппа	IUC?	(If needed, e	explair	i ariy arisw	ers in Remai	KS.)	
SUMMARY OF FINDING	3S – Atta	ch sit	te map	showing	sam	pling po	int locatio	ons, t	transect	s, importa	ant fea	tures, etc.
   Hydrophytic Vegetation Prese	ent?	Yes	X r	No		la tha Can	npled Area					
Hydric Soil Present?				No			letland?		YesX	No		
Wetland Hydrology Present?												
Remarks:												
Hillside seep PEM. Small pock	et of standi	ng wate	er (~3 in.)	) with cattails v	wher	e the seep I	pegins at the	top of	the wetlan	d.		
· ·		•	` ,			•	Ü	•				
HYDROLOGY												
Wetland Hydrology Indicato	rc·							Seco	ndary Indic	ators (minim	um of tw	n required)
Primary Indicators (minimum o		uirod: /	chock all	that apply)					•	l Cracks (B6		<u>o requirear</u>
l — ·	JI OHE IS IEC	uireu, t			nto (I	D14)				,	•	urfogo (DO)
Surface Water (A1)  High Water Table (A2)				ie Aquatic Pla drogen Sulfide						egetated Cor atterns (B10)		illace (Do)
Saturation (A3)				idized Rhizosp			Poots (C2)		-	Lines (B16)	,	
Water Marks (B1)				esence of Red		•	ROOLS (C3)			ı Water Tabl	o (C2)	
Sediment Deposits (B2)				cent Iron Red			oile (CE)		Crayfish Bu		e (C2)	
Drift Deposits (B3)				n Muck Surfac			olis (Co)			/isible on Ae	rial Imac	rony (CQ)
Algal Mat or Crust (B4)				ner (Explain in						Stressed Pla		ler à (Ca)
Iron Deposits (B5)				iei (Expiaiii iii	IXCII	iai ks)				c Position (D		
Inundation Visible on Aeri	ial Imagery	(B7)							Shallow Aqı		۷)	
Water-Stained Leaves (B	0 3	(07)								andra (B3) aphic Relief	(D4)	
Aquatic Fauna (B13)	3)									apriic Reliei il Test (D5)	(D4)	
Field Observations:							1	<u> </u>	710 IVedire	11 1031 (D3)		
	Voc	No	X D	epth (inches):								
Surface Water Present?				•		6.00						
Water Table Present?				epth (inches):							Y	
Saturation Present? (includes capillary fringe)	Yes^_	_ NO _	De	epth (inches):		2.00	wetland H	iyaroi	ogy Prese	nt? Yes_		No
Describe Recorded Data (stre	am gauge,	monitor	ing well,	aerial photos	, pre	vious inspe	ctions), if avai	ilable:				
Remarks:												

Sampling	Point:	Wetland	HM-067
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	0.01	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:1.			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (	A)
2						·
3					Total Number of Dominant Species Across All Strata: 2 (I	B)
4					Species / Mross / Mr Strata.	٥,
5					Percent of Dominant Species That Are OBL FACW or FAC: 100	A (D)
6					That Are OBL, FACW, or FAC:(,	A/B)
o			= Total Cove		Prevalence Index worksheet:	
					Total % Cover of:Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species 25 x 1 = 25	
Sapling Stratum (Plot size:	15')				FACW species 53 x 2 = 106	
					FAC species30 x 3 =90	
2					FACU species 1 x 4 = 4	
3					UPL species 0 x 5 = 0	
4					100	(B)
5						(5)
6					Prevalence Index = B/A = 2.06	
			= Total Cove		Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15'				X 2 - Dominance Test is >50%	
1,					X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2					<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide suppo data in Remarks or on a separate sheet)</li> </ul>	rting
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4					Problematic Hydrophytic Vegetation (Explain)	
5					1 adia store of levels and westered levels are	
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.	St
		0	= Total Cove	er	Definitions of Five Vegetation Strata:	
	50% of total cover:0	20% of	total cover:	0		
Herb Stratum (Plot size:	=-				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	,
	,	50	Υ	FACW	(7.6 cm) or larger in diameter at breast height (DBH	ı. Ⅎ).
Leersia oryzoides		20	Y	OBL		
3 Symphyotrichum pilosum		15	N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	S
Juncus tenuis		10	N	FAC	than 3 in. (7.6 cm) DBH.	5
5 Juncus effusus		5	N	OBL	Charle Woody plants avaluding woody vince	
0				FAC	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6. Euthamia graminifolia		<u>5</u>	N	FAC		
<ul><li>7. Dichanthelium clandestinum</li><li>8 Rosa multiflora</li></ul>	<u> </u>		N	FACU	Herb – All herbaceous (non-woody) plants, includir herbaceous vines, regardless of size, and woody	ng
<u> </u>			N	FACO	plants, except woody vines, less than approximatel	y 3
9					ft (1 m) in height.	
10					Woody vine – All woody vines, regardless of heigh	nt.
11					<b>,</b> , , , , , , , , , , , , , , , , , ,	
		109	= Total Cove	er		
	50% of total cover: 55	20% of	total cover:	22		
Woody Vine Stratum (Plot size	30'					
1						
2						
3						
5						
		0	= Total Cove	_ <del></del> er	Hydrophytic Vegetation	
	50% of total cover: 0			_	Present? Yes X No	
Remarks: (Include photo numb			total COVEL.			
remarks. (molade prioto namb	ora nere or on a separate s	ncet.)				

Sampling Point: Wetland HM-067

Profile Desc	ription: (Describe to	the depth	needed to docum	ent the ii	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			Features		1 2	T	Damada
(inches)	Color (moist)	<u>%</u> _	Color (moist) 10YR 4/6	<u>%</u> 20	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Clay loam	Remarks
0 - 4	10YR 6/3				C			Prominent redox concentrations
<u>4</u> — 10	10YR 5/2		5YR 4/6		C	PL	Clay	Prominent redox concentrations
<u>4</u> — 10	10YR 6/3						Clay	
<u>10 — 18</u>	10YR 6/3	50					Clay	Some gravel
<u>10 — 18</u>	10YR 5/2	50					Clay	
_								
_								
<sup>1</sup> Type: C=Co	ncentration, D=Deple		educed Matrix, MS	=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I			,					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) <b>(MLRA 147)</b>
	ipedon (A2)		Polyvalue Bel				148)	Coast Prairie Redox (A16)
Black His			Thin Dark Sur			47, 148)		(MLRA 147, 148)
	1 Sulfide (A4)		Loamy Gleyed		F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		<ul><li>✓ Depleted Matı</li><li>✓ Redox Dark S</li></ul>		6)			(MLRA 136, 147) Yery Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dark					Other (Explain in Remarks)
	rk Surface (A12)	` ,	Redox Depres				,	, ,
	ucky Mineral (S1) <b>(Ll</b>	RR N,	☐ Iron-Mangane		es (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 136				2.	
	leyed Matrix (S4)		Umbric Surfac					licators of hydrophytic vegetation and
	edox (S5) Matrix (S6)		Piedmont Floo					etland hydrology must be present, less disturbed or problematic.
	ayer (if observed):	No	Red Falent W	ateriai (i .	Z I) (WILK	A 127, 147	, un	less disturbed of problematic.
Type:	•							
J	hes):		<del>_</del>				Hydric Soil	Present? Yes X No No
Remarks:	, ' <u>-</u>		<del></del>				,	





North South





East West



Soil profile Photo taken 01-16-2020

Project/Site: AEP Hillsboro to	Millbrook Park	City/0	County: Scioto	Sampling Date: 10/29/2019
Applicant/Owner: AEP			State: OH	Sampling Point: Wetland HM-068
Investigator(s): MJA, DMS		Sect	ion, Township, Range: T 2 N R 21 W S	
• • • • • • • • • • • • • • • • • • • •	C) Ridgetop	Local re	lief (concave, convex, none): Concave	Slone (%): 0
			Long:	
			NWI class	
			Yes X No (If no, explain i	
Are Vegetation, Soil	- ·		·	s" present? Yes X No
Are Vegetation, Soil				·
Are vegetation _, 30ii_	_, or riyurology	naturally problem	atic: (ii fleeded, explain arry aris	weis in Remarks.)
SUMMARY OF FINDIN	GS – Attach si	te map showing sar	npling point locations, transec	cts, important features, etc.
Hydrophytic Vegetation Pres	ent? Yes	X No	Is the Sampled Area	
Hydric Soil Present?		X No	within a Wetland? Yes	No
Wetland Hydrology Present?		X No		
Remarks:				
Ridge-top PEM under T-line. I	Pockets of standing	g water (up to 10 inches) ne	ear northwest edge. Very small pond adj	acent to southwest edge.
Some apparent ATV disturbar	ice.			-
A small wetland pocket separa	ated by a narrow u	oland buffer to the southea	st also observed	
7 Cinai Wetana pooket Sepai	atou by a narrow ap		ot also 62561764.	
HYDROLOGY				
Wetland Hydrology Indicate	ors:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum		check all that apply)	Surface S	Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants		Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od	_ ` `	Patterns (B10)
Saturation (A3)				m Lines (B16)
Water Marks (B1)		Presence of Reduce		on Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Burrows (C8)
Drift Deposits (B3)		Thin Muck Surface (	C7) Saturation	n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	_	or Stressed Plants (D1)
Iron Deposits (B5)			<u></u> ☐ Geomorp	hic Position (D2)
Inundation Visible on Ae	rial Imagery (B7)		Shallow A	Aquitard (D3)
Water-Stained Leaves (E	39)		☐ Microtopo	ographic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-Neu	tral Test (D5)
Field Observations:				
Surface Water Present?	Yes No _	X Depth (inches):		
Water Table Present?	Yes No _	X Depth (inches):		
Saturation Present?		X Depth (inches):		sent? Yes X No
(includes capillary fringe)		•		
Describe Recorded Data (stre	eam gauge, monito	iring well, aerial photos, pro	evious inspections), if available:	
Remarks:				
Standing water (~10 in) obser	ved towards the ce	nter of the wetland.		

Sampling	Point:	Wetland	HM-068
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001	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2				Tatal N. seks as f Dani's and
3				Total Number of Dominant Species Across All Strata:  2 (B)
4.				
5				Percent of Dominant Species That Are OBL FACW or FAC: 100.00 (A/R)
				That Are OBL, FACW, or FAC: 100.00 (A/B)
6		= Total Cov		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species 80 x 1 = 80
Sapling Stratum (Plot size:)				FACW species 26
1				FAC species 9 x 3 = 27
2				FACU species0 x 4 =0
3				UPL species 0 x 5 = 0
4				
5				Column Totals:115 (A)159 (B)
6				Prevalence Index = B/A = 1.38
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover:	0	X 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')				X 2 - Dominance Test is >50%
1				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
b				be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover:0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.
1. Leersia oryzoides	70	Y	OBL_	(7.6 cm) or larger in diameter at breast height (DBH).
2. Juncus effusus	25	Y	FACW	Sapling – Woody plants, excluding woody vines,
3. Alisma subcordatum	10	N	OBL	approximately 20 ft (6 m) or more in height and less
4. Euthamia graminifolia	5	N	_FAC	than 3 in. (7.6 cm) DBH.
5. Dichanthelium clandestinum	3	N	FAC_	Shrub – Woody plants, excluding woody vines,
6. Bidens frondosa	1	N	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Symphyotrichum pilosum	1	N	FAC	Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9.				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
11.				Woody vine – All woody vines, regardless of height.
	115	= Total Cov		
50% of total cover:58	20% of	total cover:	23	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				
	0	= Total Cov	er	Hydrophytic Vegetation
50% of total cover:0			_	Present? Yes X No
Remarks: (Include photo numbers here or on a separate s		total COVEL	<u>~</u>	
тетатк». (писиче рного пиниеть неге ог он а separate s	oneet.)			

Sampling Point: Wetland HM-068

Profile Description: (Describe to the d	epth needed to document	the indicator or con	firm the absence	of indicators.)
Depth Matrix	Redox Fe	atures	<del>.</del>	
(inches) Color (moist) %		<u>% Type<sup>1</sup> Loc</u>		Remarks Provided to the state of the state o
0 — 18 2.5Y 5/2 80	5YR 4/6	20 <u>C</u> PL	Clay loam	Prominent redox concentrations
_				
_				
	<u> </u>		<u> </u>	
1			2	
<sup>1</sup> Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Ma	asked Sand Grains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Indicators:	David Comford (C7)			-
Histosol (A1) Histic Epipedon (A2)	Dark Surface (S7)	) Surface (S8) <b>(MLRA</b> 1		cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
Black Histic (A3)		e (S9) <b>(MLRA 147, 14</b>		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Ma			Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (		<del></del>	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surfa	ice (F6)		ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Su		<u> </u>	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depression			
Sandy Mucky Mineral (S1) (LRR N,		Masses (F12) <b>(LRR N</b>	,	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)	MLRA 136)	F13) <b>(MLRA 136, 122</b>	3Ind	licators of hydrophytic vegetation and
Sandy Gleyed Matrix (34) Sandy Redox (S5)		ain Soils (F19) <b>(MLR</b> /		etland hydrology must be present,
Stripped Matrix (S6)		rial (F21) <b>(MLRA 127,</b>		less disturbed or problematic.
Restrictive Layer (if observed): No		( – ., (		
Type:				
Depth (inches):			Hydric Soil	Present? Yes X No
Remarks:				





North South





East West

Soil Photos:

Wetland HM-068



Project/Site: AEP Hillsboro to	Millbrook F	Park		City	County. Sciot	0		Sampling	Date: 10	/28/2019
Applicant/Owner: AEP				Oity/			State: OH	_ oampiing Samnlii	na Point	Wetland HM-069
Investigator(s): RW				Sec	tion Township	Range: T2	2 N R 21 W S 26		ng rome.	
Landform (hillslope, terrace, et	tc ). Ravine								Slone	(%)· 0
Subregion (LRR or MLRA): <u>LF</u>				· 38.80109	cher (corroave,	Long:	-82	94324	— Globe	WGS 84
Soil Map Unit Name: Shelocta				verv steep		Long.	NWI classif	cation: N/A	Datum.	
Are climatic / hydrologic condit										
Are Vegetation, Soil							Circumstances"		/00 X	No
										NO
Are Vegetation _, Soil _	_, or m	yarology		naturally probler	nauc?	(II needed, e	explain any answ	ers in Rema	irks.)	
SUMMARY OF FINDIN	GS – Att	ach si	te n	nap showing sa	mpling poi	nt locatio	ns, transect	s, import	ant fea	tures, etc.
Hydrophytic Vegetation Pres	ent?	Yes _	Х	No	Is the Sam	nled Area				
Hydric Soil Present?		Yes_	Χ	No	within a W		YesX	No		
Wetland Hydrology Present?				No						
Remarks:										
PEM wetland depression loca	ated at toe o	of slope.								
HYDROLOGY										
Wetland Hydrology Indicate	ors:						Secondary India	ators (minin	num of tw	o required)
Primary Indicators (minimum	of one is re	equired;	chec	k all that apply)			Surface Soil	l Cracks (B6	3)	
Surface Water (A1)				True Aquatic Plants	s (B14)		☐ Sparsely Ve	egetated Co	ncave Su	rface (B8)
High Water Table (A2)				Hydrogen Sulfide O			✓ Drainage P	-		` ,
Saturation (A3)				Oxidized Rhizosphe	eres on Living I	Roots (C3)	Moss Trim	_ines (B16)		
Water Marks (B1)				Presence of Reduc	ed Iron (C4)		Dry-Seasor	Water Tabl	le (C2)	
Sediment Deposits (B2)				Recent Iron Reduct	ion in Tilled Sc	oils (C6)	Crayfish Bu	rrows (C8)		
Drift Deposits (B3)				Thin Muck Surface	(C7)		Saturation \	/isible on A	erial Imag	ery (C9)
Algal Mat or Crust (B4)				Other (Explain in Re	emarks)		Stunted or	Stressed Pla	ants (D1)	
Iron Deposits (B5)							✓ Geomorphi	c Position (E	02)	
Inundation Visible on Ae	rial Imagen	y (B7)					Shallow Aq	uitard (D3)		
<u>✓</u> Water-Stained Leaves (E	39)						Microtopog	aphic Relie	f (D4)	
Aquatic Fauna (B13)							FAC-Neutra	al Test (D5)		
Field Observations:										
Surface Water Present?	Yes	No_	Х	Depth (inches):						
Water Table Present?	Yes	No_	Х	Depth (inches):						
Saturation Present?	Yes	No_	Χ	Depth (inches):		Wetland H	lydrology Prese	nt? Yes_	X	No
(includes capillary fringe)  Describe Recorded Data (str	eam dalide	monito	ring	well serial photos p	ravious inspac	tions) if ava	ilahle:			
Describe Necorded Data (str	eam gauge	, monito	ning v	well, aerial priotos, p	revious irispec	tions), ii ava	liable.			
Remarks:										
Remarks.										

Sampling	Point:	Wetland	HM-069
	-		

		Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:			Species?		Number of Dominant Species	4	
1					That Are OBL, FACW, or FAC:	1	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	1	(B)
4					_		,
5					Percent of Dominant Species	100.00	(A/D)
					That Are OBL, FACW, or FAC:	100100	(A/B)
6			= Total Cove		Prevalence Index worksheet:		
					Total % Cover of:	Multiply by:	
	50% of total cover:0	20% of	ftotal cover:_	0	OBL species 0 x 1 =	= 0	
Sapling Stratum (Plot size:	)				FACW species 0 x 2 =		
1					FAC species 90 x 3 =		
2					TAO species X 5 =		_
3					1 A00 species x +		_
4					UPL species 0 x 5 =		_
					Column Totals:100 (A)	310	_ (B)
5 6					Prevalence Index = B/A =	3.10	
			= Total Cove		Hydrophytic Vegetation Indicator		_
	50% of total cover:0	20% 전	total cover	0	1 - Rapid Test for Hydrophytic	Vegetation	
Shrub Stratum (Plot size:		20 70 01	10tal 00 vol		X 2 - Dominance Test is >50%		
·					3 - Prevalence Index is ≤3.0 <sup>1</sup>		
1					4 - Morphological Adaptations	(Provide sun	norting
2					data in Remarks or on a seg	parate sheet)	porting
3					Problematic Hydrophytic Veget		in)
4						(	,
5					<sup>1</sup> Indicators of hydric soil and wetlan	nd bydrology r	nuet
6					be present, unless disturbed or pro		iiust
		0	= Total Cove	er	Definitions of Five Vegetation St		
	50% of total cover:0	20% of	f total cover:	0	Dominiono or i ivo rogotation oti	· utu:	
Harb Stratum (Plataiza)		20 /0 01	total cover.		Tree – Woody plants, excluding wo		
Herb Stratum (Plot size:		4.5	N.I.	EAC	approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at bre		
			N	FAC	(7.0 cm) of larger in diameter at bre	cast neight (D	D11).
2. Microstegium vimineum		75	- <u>Y</u>	FAC	Sapling – Woody plants, excluding		
3. Rosa multiflora		10	N	<u>FACU</u>	approximately 20 ft (6 m) or more in than 3 in. (7.6 cm) DBH.	n height and le	ess
4					than 3 iii. (7.0 cm) DBH.		
5					Shrub – Woody plants, excluding v		
6					approximately 3 to 20 ft (1 to 6 m) in	n height.	
7					Herb – All herbaceous (non-woody	) plants, inclu	dina
8					herbaceous vines, regardless of siz	ze, and woody	<i>,</i>
9					plants, except woody vines, less tha	an approxima	tely 3
10					ft (1 m) in height.		
					Woody vine - All woody vines, reg	ardless of he	ight.
11							
		100	= Total Cove	er			
	50% of total cover: 50	20% of	ftotal cover:	20			
Woody Vine Stratum (Plot size	:)						
1							
2							
3							
··		•	·				
J			_ T-( ! C		Hydrophytic		
		0	= Total Cove		Vegetation Present? Yes X	No	
	50% of total cover: 0	20% of	total cover:	0	riesent: res		
Remarks: (Include photo numb	ers here or on a separate s	heet.)					

Sampling Point: Wetland HM-069

epth	Matrix			x Features	1 . 2		
nches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> Typ	e <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
<b>—</b> 3	10YR 4/2	100					
<b>—</b> 12	10YR 4/3	90	10YR 3/6		M	Silty loam	
_							
_							
_							
_							
	ncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked Sand	Grains.		=Pore Lining, M=Matrix.
dric Soil Ir	ndicators:					Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (	'		Dark Surface				m Muck (A10) <b>(MLRA 147)</b>
	ipedon (A2)			elow Surface (S8		. —	ast Prairie Redox (A16)
Black His				urface (S9) (MLF	RA 147, 148)		(MLRA 147, 148)
	Sulfide (A4)			ed Matrix (F2)			edmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		☐ Depleted Ma☐ Redox Dark				(MLRA 136, 147) ry Shallow Dark Surface (TF12)
i	Below Dark Surface	e (A11)		rk Surface (F7)			ner (Explain in Remarks)
	rk Surface (A12)	- ( )	Redox Depre	` '			(27,516
	ucky Mineral (S1) <b>(L</b>	.RR N,		ese Masses (F1	2) <b>(LRR N,</b>		
	147, 148)		MLRA 13		,		
Sandy Gl	eyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(MLRA</b>	\ 136, 122)	<sup>3</sup> Indic	ators of hydrophytic vegetation and
Sandy Re				oodplain Soils (F			and hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F21) <b>(N</b>	ILRA 127, 14	7) unle	ess disturbed or problematic.
strictive L	ayer (if observed):	No					
Туре:			<u> </u>				
Donth /ins	hes):		<u>—</u>			Hydric Soil F	Present? Yes <u>X</u> No
Dehru (inc						•	
marks:	ect to intermittent po	nding.					
marks:	ect to intermittent po	nding.					
marks:	ect to intermittent por	nding.					
marks:	ect to intermittent por	nding.					
marks:	ect to intermittent po	nding.					
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marks:	ect to intermittent po	nding.					
marks:	ect to intermittent po	nding.					
marks:	ect to intermittent po	nding.					



North Photo taken 01-16-2020

East Photo taken 01-16-2020



South Photo taken 01-16-2020

West Photo taken 01-16-2020



Soil profile Photo taken 01-16-2020

Project/Site: AEP Hillsboro to N	Millbrook P	ark	Cit	v/County. Scioto	)		Sampling	Date: 10	/28/2019
Applicant/Owner: AEP				y/ 00d/1ty:	S	tate OH	_ camping Samnlii	na Point <sup>. \</sup>	Wetland HM-070
Investigator(s): RW			Se	ction, Township,				ng roma.	
Landform (hillslope, terrace, etc	· )· Flat							Slone	(%). 0
Subregion (LRR or MLRA): <u>LRI</u>	·/· R		Lat: 38.75460	rener (oorloave, t	Long:	-82	92781	— Olobo	WGS 84
Soil Map Unit Name: Haymond	silt loam	occasion	nally flooded			NIMI classifi	cation: N/A	Datum	
Are climatic / hydrologic condition								·	
Are Vegetation, Soil					re "Normal Cir			/00 X	No
					If needed, expl				NO
Are Vegetation _, Soil _	_, or my	urology	naturally proble	emauc? (i	n needed, expi	am any answ	ers in Rema	irks.)	
SUMMARY OF FINDING	3S – Atta	ach sit	e map showing sa	ampling poir	nt locations	, transect	s, import	ant feat	ures, etc.
Hydrophytic Vegetation Prese	nt?	Yes	X No	Is the Samp	alad Araa				
Hydric Soil Present?			X No	within a We		YesX	No		
Wetland Hydrology Present?									
Remarks:				I					
PEM wetland in low area between	een roadwa	avs and	adiacent to residential p	properties.					
		,	,	•					
HADBOI OCA									
HYDROLOGY						1 1 1			
Wetland Hydrology Indicato					Se	condary Indic			<u>o requirea)</u>
Primary Indicators (minimum o	of one is re	quired; c			<b> </b> _	Surface Soi	,	,	
Surface Water (A1)			True Aquatic Plant		<u> </u>	Sparsely Ve	-		face (B8)
High Water Table (A2)			Hydrogen Sulfide			Drainage Pa		))	
Saturation (A3)			Oxidized Rhizosph	_	Roots (C3)	Moss Trim I		· (00)	
Water Marks (B1)			Presence of Redu		as.	Dry-Season		le (C2)	
Sediment Deposits (B2)			Recent Iron Reduc		lls (C6)	Crayfish Bu			(00)
Drift Deposits (B3)			Thin Muck Surface		<u> </u>	Saturation \		-	ery (C9)
Algal Mat or Crust (B4)			U Other (Explain in F	Remarks)		Stunted or S			
Iron Deposits (B5)	ial luca mam	(DZ)				Geomorphic	,	JZ)	
Inundation Visible on Aeri		(B/)			<u> </u>	Shallow Aqı Microtopogr	` '	f (D4)	
Water-Stained Leaves (B	9)					1	-	I (D4)	
Aquatic Fauna (B13)						FAC-Neutra	ii rest (D5)		
Field Observations:	., Y		5 " "	1.00					
Surface Water Present?			Depth (inches):						
Water Table Present?			Depth (inches): _	0.00				V	
Saturation Present? (includes capillary fringe)	Yes X	_ No _	Depth (inches):	0.00	Wetland Hydi	rology Prese	nt? Yes_		No
Describe Recorded Data (stre	am gauge,	monitor	ing well, aerial photos, i	I previous inspecti	ions), if availab	le:			
,	0 0 ,			•	,,				
Remarks:									
rtomarke.									

Sampling	Point:	Wetland	HM-070
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	001	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:			Species?		Number of Dominant Species That Are OBL FACW or FAC: 2	
1					That Are OBL, FACW, or FAC:	A)
2					Total Number of Dominant	
3					Species Across All Strata: 2 (E	В)
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC:100 (A	A/B)
6					Prevalence Index worksheet:	
		:	= Total Cove	er	Total % Cover of: Multiply by:	
	50% of total cover:0	20% of	total cover:	0	OBL species5 x 1 =5	
Sapling Stratum (Plot size:	)				FACW species 95 x 2 = 190	
1					FAC species 0 x 3 = 0	
2					FACU species0 x 4 =0	
3					UPL species0 x 5 =0	
4					Column Totals:100(A)195	(B)
5						
6					Prevalence Index = B/A = 1.95	
		:	= Total Cove	er	Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of	total cover:	0	X 1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15'	<del></del>		_	X 2 - Dominance Test is >50%	
1					X 3 - Prevalence Index is ≤3.01	
2					4 - Morphological Adaptations <sup>1</sup> (Provide support	rting
3					data in Remarks or on a separate sheet)	
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5					1,	
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	st
		_	= Total Cove	 er	Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover	0	Definitions of Five Vegetation Strata.	
Herb Stratum (Plot size:	=1	20 /6 01	total cover.		Tree – Woody plants, excluding woody vines,	
4 0		20	Υ	FACW	approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH	
o lungue offueue		10	N N	FACW		.,.
a. Tumba latifalia				OBL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	2
Phalaris arundinacea		65	Y	FACW	than 3 in. (7.6 cm) DBH.	
5.				17.077	Shrub – Woody plants, excluding woody vines,	
		-	-		approximately 3 to 20 ft (1 to 6 m) in height.	
· ·						
7					Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody	ng
8					plants, except woody vines, less than approximately	у 3
9					ft (1 m) in height.	
10 11.		-	-		Woody vine - All woody vines, regardless of heigh	nt.
11. <u> </u>		100	= Total Cove			
	50% of total cover:50	20% of	total cover:	20		
Woody Vine Stratum (Plot size						
1						
2						
3						
4						
5					Hydrophytic	
		:	= Total Cove	er	Vegetation	
	50% of total cover:0	20% of	total cover:	0	Present? YesX No	
Remarks: (Include photo numb	pers here or on a separate s	heet.)			1	
Vegetation mowed, Carex speci			sed on surro	unding ve	getation and hydrology.	

Sampling Point: Wetland HM-070

Depth	Matrix			x Features	<del>-</del> 1	2	<b>T</b> (	D 1
inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 — 4	10YR 4/2	<u>85</u>	10YR 4/6		С	PL_	Silty Ioam	
4 — 18	10YR 4/1	85	10YR 4/6	15	С	PL	Clay loam	
_								
_								
		Latina DM	Dealers of Matrice MA		) I O		21	David Links M. Matek
ype: C=Co ydric Soil I	ncentration, D=Depl	etion, Rivi=	Reduced Matrix, Mi	s=Masked S	sand Gra	ains.		.=Pore Lining, M=Matrix. tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			☐ Dark Surface	(87)				cm Muck (A10) (MLRA 147)
_	ipedon (A2)		Polyvalue Be		(S8) <b>(N</b>	II RA 147		past Prairie Redox (A16)
Black His			Thin Dark Su				-	(MLRA 147, 148)
_	n Sulfide (A4)		Loamy Gleye			, ,		edmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Ma		,			(MLRA 136, 147)
2 cm Mu	ck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F6	)		☐ Ve	ery Shallow Dark Surface (TF12)
_	Below Dark Surface	∍ (A11)	Depleted Dar	k Surface (	F7)		☐ Ot	ther (Explain in Remarks)
_	rk Surface (A12)		Redox Depre					
	ucky Mineral (S1) <b>(L</b>	.RR N,	☐ Iron-Mangan		s (F12) <b>(</b>	LRR N,		
_	147, 148)		MLRA 13	,		0 400)	31. P	and an after the other flavors and after a second
	leyed Matrix (S4)		Umbric Surfa					cators of hydrophytic vegetation and
_	edox (S5) Matrix (S6)		☐ Piedmont Flo					land hydrology must be present, ess disturbed or problematic.
	ayer (if observed):	No.	red rareint is	naterial (i Z	1) (IVILIX	A 121, 141	Unit	ess disturbed of problematic.
Type:	ayer (ii observea).	NO						
Depth (inc	hoc):		<del></del>				Hydric Soil I	Present? Yes X No
			<del></del>				nyunc son	Present: res No
emarks:								





North Photo taken 01-16-2020

East Photo taken 01-16-2020



South Photo taken 01-16-2020



West Photo taken 01-16-2020



soil profile

Project/Site: Hillsboro-Millbroo	ok Park 138 kV		City/County: Sc	ioto		Sampling Da	ate: 12/1	5/2020
Applicant/Owner: AEP			only/obunity:		State: OH	Sampling	Point <sup>. W-</sup>	-MJA-121520-04
Investigator(s): MJA, JFW			Section, Townsh					
Landform (hillslope, terrace, et								
Subregion (LRR or MLRA): <u>LF</u>								
Soil Map Unit Name: Omu1B1								
Are climatic / hydrologic condit								
Are Vegetation, Soil				Are "Normal Ci			s X	No
Are Vegetation _, Soil _					olain any answer			
, con	, or riyarolog	ynatarany	problematio:	(II fieeded, exp	nam any anower	o in remain	0.)	
SUMMARY OF FINDING	GS – Attach s	ite map showi	ng sampling p	oint locations	s, transects,	importar	nt featu	ıres, etc.
		-						
Hydrophytic Vegetation Prese		X No		ımpled Area	X			
Hydric Soil Present?		X No		Wetland?	YesX	_ No		
Wetland Hydrology Present?	Yes _	X No	_					
Remarks:								
Ditch at toe of slope, wetland	channelized. With	in floodplain of inter	mittent stream (nea	ar opposite side o	of road). Wetland	l hydrology li	ikely pred	ceded
road.								
HYDROLOGY								
Wetland Hydrology Indicate				S <sub>4</sub>	econdary Indicat	ors (minimu	m of two	required)
Primary Indicators (minimum		check all that ann	\v)	<u> </u>	Surface Soil (		iii oi two	<u>required</u>
Surface Water (A1)	or one is required		c Plants (B14)	<u></u>	Sparsely Veg	` ,	ava Surf	200 (B9)
High Water Table (A2)			ulfide Odor (C1)	<u> </u>	Drainage Pat		ave Sun	ace (bo)
Saturation (A3)			izospheres on Livin	g Poots (C3)	Moss Trim Li			
Water Marks (B1)			Reduced Iron (C4)		Dry-Season V		(C2)	
Sediment Deposits (B2)			Reduction in Tilled		Crayfish Burn		(02)	
Drift Deposits (B3)		Thin Muck S			Saturation Vis		al Imager	rv (C9)
Algal Mat or Crust (B4)			in in Remarks)	Ē	Stunted or St			, ( )
Iron Deposits (B5)			,	<u> </u>	Geomorphic I			
Inundation Visible on Ae	rial Imagery (B7)				Shallow Aqui	ard (D3)		
Water-Stained Leaves (E	39)				☐ Microtopogra	phic Relief ([	D4)	
Aquatic Fauna (B13)				✓	FAC-Neutral	Test (D5)		
Field Observations:								
Surface Water Present?	Yes No	X Depth (inch	es):					
Water Table Present?	Yes No	X Depth (inch	es):					
Saturation Present?	Yes No	X Depth (inch	es):	Wetland Hyd	drology Presen	t? Yes	<u>×</u> N	o
(includes capillary fringe)			-4	antings) if availab	hla.			
Describe Recorded Data (stre	eam gauge, monit	oring well, aerial pri	lotos, previous insp	ections), ir avallal	bie:			
Remarks:								

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

/EGETATION (Five Stra	ıta) – Us	e scientific n	ames of p	plants.		Sampling Point: W-MJA-121520-04
				Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1.				Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2						Total Number of Dominant
3						Species Across All Strata:1 (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC: 100.00 (A/B)
6						Prevalence Index worksheet:
			:	= Total Cov	er	Total % Cover of: Multiply by:
	50% of t	total cover:0	20% of	total cover:	0	OBL species83 x 1 =83
Sapling Stratum (Plot size:	15'	)				FACW species15 x 2 =30
1						FAC species 0 x 3 = 0
2						1710 Species x o
3						
4						UPL species 0 x 5 = 0
5						Column Totals:101 (A)125 (B)
6						Prevalence Index = B/A = 1.24
·				= Total Cov		Hydrophytic Vegetation Indicators:
	500/ of					1 - Rapid Test for Hydrophytic Vegetation
C1		total cover:0	20% 01	total cover.		X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:		)				$\frac{\times}{\times}$ 2 - Dominance Test is >50% $\frac{\times}{\times}$ 3 - Prevalence Index is $\leq 3.0^{1}$
1						4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2						data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4						
5						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6						be present, unless disturbed or problematic.
			:	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of t	total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:	5'	)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
and the second			5	N	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex lurida			70	Υ	OBL	Sapling – Woody plants, excluding woody vines,
3. Salix nigra			10	N	OBL	approximately 20 ft (6 m) or more in height and less
4. Ligustrum sinense			3		FACU	than 3 in. (7.6 cm) DBH.
5. Alisma subcordatum			3	N	OBL	Shrub – Woody plants, excluding woody vines,
6. Eupatorium perfoliatum			10	N	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7						Herb – All herbaceous (non-woody) plants, including
8						herbaceous vines, regardless of size, and woody
9						plants, except woody vines, less than approximately 3
						ft (1 m) in height.
10						Woody vine – All woody vines, regardless of height.
11						
				= Total Cove		
		total cover: <u>51</u>	20% of	total cover:	20	
Woody Vine Stratum (Plot size		30' )				
1						
2						
3						
4						
5				-		Livelyambyetia
			0	= Total Cove	er	Hydrophytic Vegetation
	50% of t	total cover:0	20% of	total cover:	0	Present? Yes X No No
Remarks: (Include photo num		·				
Tremarks. (include prioto num	Dela Hele (	on a separate s	sileet.)			

Sampling Point: W-MJA-121520-04

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features		. 2		
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 🔳 3	10YR 3/2	95	2.5YR 3/6	5	C	PL_	Silty loam	
3 📕 8	2.5Y 6/2	85	2.5YR 4/6	15	C	PL	Clay loam	
	oncentration, D=Depl	etion, RM=R	teduced Matrix, MS	S=Masked	Sand Gra	ains.		=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		. , .			past Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
= ' '	n Sulfide (A4)		Loamy Gleye		F2)			edmont Floodplain Soils (F19)
	l Layers (A5) ck (A10) <b>(LRR N)</b>		☐ Depleted Mar  ✓ Redox Dark		(C)			(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dar					her (Explain in Remarks)
	ark Surface (A12)	(/(///	Redox Depre					Tel (Explain in Kemarks)
_	lucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan			_RR N,		
-	\ 147, 148)	•	MLRA 13		, , ,	,		
☐ Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (	MLRA 13	6, 122)	<sup>3</sup> Indi	cators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	•	. ,	•	•	land hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	') unle	ess disturbed or problematic.
	ayer (if observed):	Yes						
Type: Gr								
Depth (inc	ches): <u>8</u>		<u> </u>				Hydric Soil	Present? Yes X No
Remarks:							•	





North South





East West

Soil Photos:

Wetland HM-076



Soil Profile

Project/Site: Hillsboro-Millbro	ok Park 138	3 kV		City/C	County: Scioto		Sampling	n Date: 12	2/15/2020
Applicant/Owner: AEP				Only/ C		State: OH	Samul	ina Point	W-MJA-121520-03
Investigator(s): MJA, JFW				Secti	on, Township, Range: _	Ohio Surveys VIRGINIA	MILITARY DISTRI	ICT OH93Scio	oto LotNotNumbered
Landform (hillslope, terrace, et	to 1. Terrace	<del></del>							
Subregion (LRR or MLRA): <u>LF</u>	.o.,. 3B N		l at·	38.94127	Long:	-8	3 11889	— Globe	WGS 84
Soil Map Unit Name: Sk: Skid	more silt loa	am. occa	_ Lat. asiona	ally flooded		NI/VI class	ification: R4	SBC	
Are climatic / hydrologic condit									
Are Vegetation, Soil						_ (Il 110, explain il nal Circumstances		voc X	No
									NO
Are Vegetation _, Soil _	_, or my	/urology	·	naturally problem	auc? (ii needed	l, explain any ansv	vers in Rema	arks.)	
SUMMARY OF FINDIN	GS – Atta	ach si	te m	ap showing san	npling point locat	ions, transec	ts, import	tant fea	tures, etc.
Hydrophytic Vegetation Pres	ent?	Yes _	Χ	_ No	Is the Sampled Area	1	.,		
Hydric Soil Present?		Yes_	Χ	No	within a Wetland?	Yes	X No _		
Wetland Hydrology Present?				_ No					
Remarks:									
PEM wetland near perennial s	stream, in a	ctive co	w pas	sture.					
HYDROLOGY									
Wetland Hydrology Indicate	ors:					Secondary Ind	icators (minir	mum of tw	vo required)
Primary Indicators (minimum		eauired:	checl	k all that apply)			oil Cracks (B		<u> </u>
Surface Water (A1)	01 0110 10 10	quirou		True Aquatic Plants	(B14)	·	egetated Co	,	ırface (B8)
High Water Table (A2)			Ħ	Hydrogen Sulfide Od			Patterns (B10		
Saturation (A3)			7		es on Living Roots (C3		Lines (B16)	•	
Water Marks (B1)				Presence of Reduce	= -	_	on Water Tab		
Sediment Deposits (B2)					on in Tilled Soils (C6)		urrows (C8)	` ,	
Drift Deposits (B3)				Thin Muck Surface (			Visible on A	erial Imag	gery (C9)
Algal Mat or Crust (B4)				Other (Explain in Rei	marks)	Stunted or	Stressed Pla	ants (D1)	
Iron Deposits (B5)						Geomorph	nic Position (I	D2)	
Inundation Visible on Ae	rial Imagery	/ (B7)				Shallow A	quitard (D3)		
Water-Stained Leaves (E	39)						graphic Relie		
Aquatic Fauna (B13)						✓ FAC-Neuting	ral Test (D5)		
Field Observations:									
Surface Water Present?	Yes	No _	Χ	Depth (inches):					
Water Table Present?	Yes	No _	Χ	Depth (inches):					
Saturation Present?	Yes	No _	Χ	Depth (inches):	Wetland	l Hydrology Pres	ent? Yes	X	No
(includes capillary fringe)  Describe Recorded Data (str	eam dalide	monito	ring v	vell serial photos pre	vious inspections) if a	vailable:			
Describe Necorded Data (str	cam gauge,	, monito	illig v	veli, aeriai priotos, pre	evious irispections), ir a	valiable.			
Remarks:									
Remarks:									

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

EGETATION (Five Strat	:a) – Use	scientific na	ames of p	olants.		Sampling Point: W-MJA-121520-03
				Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 1				Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2						Total Number of Dominant
3						Species Across All Strata:1 (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC: 100.00 (A/B)
6						
			=	= Total Cove	er	Prevalence Index worksheet:
	50% of to	otal cover:0	20% of	total cover:	0	
Sapling Stratum (Plot size:	15'	)	_		_	OBL species 0 x 1 = 0 FACW species 70 x 2 = 140
1						
2						1710 Species x 0
3						1 A00 Species X + =
4						UPL species 0 x 5 = 0
5						Column Totals:140 (A)385 (B)
6						Prevalence Index = B/A = 2.75
<u> </u>				= Total Cove	 er	Hydrophytic Vegetation Indicators:
	500/ of to	-4-1 O				1 - Rapid Test for Hydrophytic Vegetation
OL LOCUMENT (District)		otal cover:0	20% 01	total cover:		X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:		)				X 3 - Prevalence Index is ≤3.0¹
1						4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2						data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4						
5						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6						be present, unless disturbed or problematic.
			:	= Total Cove	ər	Definitions of Five Vegetation Strata:
	50% of to	otal cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5'	_)				approximately 20 ft (6 m) or more in height and 3 in.
1. Juncus effusus			70	<u> </u>	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus			25	N	FACU	Sapling – Woody plants, excluding woody vines,
3. Symphyotrichum pilosum			20	N	FAC_	approximately 20 ft (6 m) or more in height and less
4. Andropogon virginicus			10	N	FACU	than 3 in. (7.6 cm) DBH.
5. Panicum virgatum			15	N	FAC_	Shrub – Woody plants, excluding woody vines,
6						approximately 3 to 20 ft (1 to 6 m) in height.
7						Herb – All herbaceous (non-woody) plants, including
8						herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9						ft (1 m) in height.
10						
11						Woody vine – All woody vines, regardless of height.
				= Total Cove	er	
	50% of to	otal cover:70	20% of	total cover:	28	
Woody Vine Stratum (Plot size:	_	0' )	20,00.	total co.o		
1						
3						
4						
5			0 :	Total Cov		Hydrophytic
				= Total Cove	_	Vegetation Present? Yes X No
		otal cover:0		total cover:	0	100
Remarks: (Include photo numb	ers here o	r on a separate s	heet.)		_	

Sampling Point: W-MJA-121520-03

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 1	10YR 4/2	90	5YR 4/6	10	C	PL_	Silty loam	
1 🔳 18	2.5Y 5/2	90	5YR 4/6	10	С	PL	Clay loam	
	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.		=Pore Lining, M=Matrix.
Hydric Soil I								tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	. ,	(00) (1			cm Muck (A10) (MLRA 147)
	ipedon (A2)		<ul><li>☐ Polyvalue Be</li><li>☐ Thin Dark Su</li></ul>				148) <u> </u>	past Prairie Redox (A16)
Black Hi	n Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)	Пы	(MLRA 147, 148) edmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Ma		1 2)			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark		6)			ery Shallow Dark Surface (TF12)
	l Below Dark Surface	(A11)	Depleted Dar					ther (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
-	lucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 13	•	MI DA 40	C 400\	31:	
	leyed Matrix (S4) edox (S5)		<ul><li>☐ Umbric Surfa</li><li>☐ Piedmont Flo</li></ul>					cators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent N					ess disturbed or problematic.
	ayer (if observed):	No			/ <b>(</b>	,	1	occ alcialized of prozionialion
Type:								
	ches):		_				Hydric Soil	Present? Yes X No
Remarks:								





North South





East West

Soil Photos:

Wetland HM-077



Soil Profile

Project/Site: Hillsboro-Millbro	ok Park 138	3 kV		City/C	County: Scioto			Sampling	Date: 12	2/15/2020
Applicant/Owner: AEP				Oily/C		9	State: OH	_ oampling Samplir	na Point	W-MJA-121520-02
Investigator(s): MJA, JFW				Section	on, Township, Rang	ne. Ohio Si	urveys VIRGINIA M	Campin	T OH93Scio	to LotNotNumbered
Landform (hillslope, terrace, e	tc ). Should	er slope								
Subregion (LRR or MLRA): LF				38,93891	Long:		 -83	.11635	Datum:	WGS 84
Soil Map Unit Name: MoC2: N				to 15 percent slopes.	eroded Eong.		NIWI classif	ication: N/A	Dataiii.	
Are climatic / hydrologic condi										
Are Vegetation, Soil _							rcumstances"		, X	No
										NO
Are Vegetation _, Soil _	, or m	yurology	′	naturally problem	auc? (ii nee	eueu, exp	lain any answ	ers in Rema	rks.)	
SUMMARY OF FINDIN	GS – Att	ach si	te m	ap showing san	npling point lo	cations	s, transect	s, import	ant fea	tures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	Х	_ No	Is the Sampled A	Aroa				
Hydric Soil Present?				No	within a Wetland		YesX	No		
Wetland Hydrology Present?										
Remarks:					I.					
PEM wetland adjacent to cow	pasture, b	etween t	fence	boundary and atv acc	cess path.					
,				·	·					
HYDROLOGY										
						0.4		ataua (mainim		
Wetland Hydrology Indicat						<u>56</u>	econdary Indic			<u>o requirea)</u>
Primary Indicators (minimum	of one is re	equired;	checi		(T. 4.4)	— ⊨	<b>-</b>	il Cracks (B6	•	. (D.0)
Surface Water (A1)			H	True Aquatic Plants (		  -	7	egetated Cor		rface (B8)
High Water Table (A2)			片	Hydrogen Sulfide Od		(CO)	7	atterns (B10	)	
Saturation (A3)			片	Oxidized Rhizospher	=	(C3)	Moss Trim		o (C2)	
Water Marks (B1)			H	Presence of Reduced Recent Iron Reduction	, ,		7	Nater Tabl	e (C2)	
Sediment Deposits (B2)			Ħ	Thin Muck Surface (		°)	Crayfish Bu	/isible on A∈	rial Imaa	iony (CO)
Drift Deposits (B3) Algal Mat or Crust (B4)			Ħ	Other (Explain in Re	•	⊨	7	Stressed Pla	-	ery (C9)
Iron Deposits (B5)			ш	Other (Explain in Nei	narks)	F	7	c Position (D		
Inundation Visible on Ae	rial Imagen	/ (B7)				F	Shallow Aq	,	_)	
Water-Stained Leaves (I		, (2.)					- ·	raphic Relief	(D4)	
Aquatic Fauna (B13)	/						FAC-Neutra		()	
Field Observations:							<del>-</del>			
Surface Water Present?	Yes	No	Х	Depth (inches):						
Water Table Present?				Depth (inches):						
Saturation Present?				Depth (inches):		land Hyd	Irology Prese	nt? Ves	X	No
(includes capillary fringe)	163	110_		Deptil (iliches).		iana mya	ii ology i rese			
Describe Recorded Data (str	eam gauge	, monito	ring v	vell, aerial photos, pre	evious inspections),	if availat	ble:			
Remarks:										

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

EGETATION (Five Strat	a) – Use	scientific na	ımes of p	plants.		Sampling Point: W-MJA-121520-02
	001			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1.				Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2						Total Number of Dominant
3						Species Across All Strata: 5 (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC: 80.00 (A/B)
6						Bassalan as Indonesia la testa
			:	= Total Cov	er	Prevalence Index worksheet:
	50% of to	otal cover:0	20% of	total cover:	0	
Sapling Stratum (Plot size:	15'	)				OBL species 23 x 1 = 23 FACW species 45 x 2 = 90
1						
2						1710 Species x o
3						1 A00 species x + =
4						UPL species 0 x 5 = 0
5						Column Totals:138 (A)333 (B)
6						Prevalence Index = B/A =2.41
o				= Total Cov	er	Hydrophytic Vegetation Indicators:
	500/ of to	-4-1 O				1 - Rapid Test for Hydrophytic Vegetation
OL LOCALIST (DIstaine)		otal cover:0	20% 01	total cover.	0	X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:		)	10	V	EACH.	X 3 - Prevalence Index is ≤3.0¹
				<u> </u>	_FACU_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2						data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4						
5						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6						be present, unless disturbed or problematic.
			10:	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of to	otal cover:5	20% of	total cover:	2	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5'	)				approximately 20 ft (6 m) or more in height and 3 in.
1. Typha angustifolia			20	Y	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Scirpus cyperinus			20	Y	FACW	Sapling – Woody plants, excluding woody vines,
3. Juncus effusus			20	Y	FACW	approximately 20 ft (6 m) or more in height and less
4. Lycopus americanus			3	N	OBL_	than 3 in. (7.6 cm) DBH.
5. Microstegium vimineum			45	Y	FAC	Shrub – Woody plants, excluding woody vines,
6. Ludwigia alternifolia			5	N	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Dichanthelium clandestinum	1		15	N	FAC	<b>Herb</b> – All herbaceous (non-woody) plants, including
8						herbaceous vines, regardless of size, and woody
9.						plants, except woody vines, less than approximately 3 ft (1 m) in height.
10						
11						Woody vine – All woody vines, regardless of height.
				= Total Cove	er	
	500/ of to	otal cover: 64				
Marketter (Diet eine		otal cover: <u>64</u> 0' )	20% 01	total cover.		
Woody Vine Stratum (Plot size:						
1						
2						
3						
4						
5						Hydrophytic
			:	= Total Cov	er	Vegetation
	50% of to	otal cover:0	20% of	total cover:	0	Present? Yes X No No
Remarks: (Include photo numb	ers here o	r on a separate s	heet.)			
Tromanio (morado prioto marilo	0.00.0 0	. on a coparate of				

Sampling Point: W-MJA-121520-02

(inches)         Color (moist)         %         Type¹         Loc²         Texture         Rem           0         10YR 4/2         95         5YR 4/6         5         C         PL         Silty clay loam           2         12         2.5Y 6/2         70         5YR 4/6         30         C         PL         Clay loam	larks
2 12 2.5Y 6/2 70 5YR 4/6 30 C PL Clay loam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2Location: PL=Pore Lining, M=M	latrix.
ydric Soil Indicators: Indicators for Problema	tic Hydric Soi <b>l</b> s³:
☐ Histosol (A1) ☐ Dark Surface (S7) ☐ 2 cm Muck (A10) (ML	_RA 147)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox	(A16)
Black Histic (A3)	
☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2) ☐ Piedmont Floodplain	Soils (F19)
☐ Stratified Layers (A5) ☐ Depleted Matrix (F3) (MLRA 136, 147)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Su	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Under (Explain in Rer	narks)
☐ Thick Dark Surface (A12) ☐ Redox Depressions (F8) ☐ Sandy Mucky Mineral (S1) (LRR N, ☐ Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)  MLRA 156)	
☐ Sandy Gleyed Matrix (S4) ☐ Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophyt	ric vegetation and
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must	-
☐ Stripped Matrix (S6) ☐ Red Parent Material (F21) (MLRA 127, 147) unless disturbed or pro	
Restrictive Layer (if observed): Yes	
Type: Clay	
Depth (inches): 12 Hydric Soil Present? Yes_	X No
demarks:	
re ruts	





North South





East West



Soil Profile

Project/Site: Hillsboro-Millbroo	ok Park 138	kV		City/0	County. Scio	to		Sampling	Date: 12	/15/2020
Applicant/Owner: AEP				Oity/			State: OH	Samplir	na Point	W-MJA-121520-01
Investigator(s): MJA, JFW				Sect	ion Townshir	n Range Ohio	Surveys VIRGINIA MI	Campin	T OH93Sciot	o Lot not numbered
Landform (hillslope, terrace, et	C ). Gulch or	Gully								
Subregion (LRR or MLRA): <u>LF</u>	3.). RR N		Lat: 38,9311	2	nor (oorloave	Long:	-83	.10466	Datrim.	WGS 84
Soil Map Unit Name: Lah1D1:	Latham silt	loam. 1	5 to 25 perce	nt slopes		Long.	NIWI classif	ication: N/A	Datum.	
Are climatic / hydrologic condit										
Are Vegetation, Soil							Circumstances"		, X	No
								-		NO
Are Vegetation _, Soil _	_, or nyo	urology	natur	ally problem	iauc?	(II needed, ex	plain any answ	ers in Rema	rks.)	
SUMMARY OF FINDING	GS – Atta	ich si	te map sho	owing sar	mpling po	int locatior	ns, transect	s, importa	ant fea	tures, etc.
Hydrophytic Vegetation Prese	ent?	Yes	X No_		le the Sam	npled Area				
Hydric Soil Present?			X No		within a W		YesX	No		
Wetland Hydrology Present?		Yes _	X No_							
Remarks:					1					
Erosional feature, turned depr	essional PE	M wetla	and.							
HYDROLOGY										
							Pagandan India		um of tu	o roquirod\
Wetland Hydrology Indicate		~i.c.d.	ahaali all that	(براموم		<u>2</u> 1	Secondary Indic			<u>o requirea)</u>
Primary Indicators (minimum	or one is rec	quirea;	_		(D44)	<u> </u>	=	il Cracks (B6	•	( (D0)
Surface Water (A1)  High Water Table (A2)				uatic Plants		<u> </u> 		egetated Cor		rface (B8)
I III THINGIT TOURS (TILE)				en Sulfide Od		Baata (C2)	_	atterns (B10)	)	
<b>                                    </b>					res on Living	Roots (C3)	Moss Trim I		- (CO)	
Water Marks (B1)				e of Reduce	, ,	sila (CG) L		n Water Table	e (C2)	
Sediment Deposits (B2)					on in Tilled S		Crayfish Bu		rial Imag	om. (CO)
Drift Deposits (B3)				ck Surface (	•	Ė		Visible on Ae Strooped Die	-	ery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)			U Other (E	xplain in Re	marks)	İ	_	Stressed Pla c Position (D		
Inundation Visible on Aer	rial Imagany	(D7)				i i	Shallow Aq	,	2)	
Water-Stained Leaves (E		(67)				Ϊ	_	raphic Relief	(D4)	
Aquatic Fauna (B13)	19)					Ť	FAC-Neutra		(D4)	
							1 AC-Neutra	11 Test (D3)		
Field Observations:	Vaa X	Na	Donth (	(inches).	1.00					
Surface Water Present?			Depth (		8.00					
Water Table Present?			Depth (						~	
Saturation Present? (includes capillary fringe)	Yes _ ^_	_ No _	Depth (	(inches):	2.00	Wetland Hy	drology Prese	nt? Yes_		No
Describe Recorded Data (stre	 eam gauge,	monito	ring well, aeria	al photos, pr	evious insped	ctions), if avail	able:			
Remarks:										

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

/EGETATION (Five Stra	ta) – Use scientific na	mes of <sub>l</sub>	olants.		Sampling Point: W-MJA-121520-01
			Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
6		-			Prevalence Index worksheet:
		0	= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover:0	20% of	total cover:	0	OBL species x 1 = 20
Sapling Stratum (Plot size:	15')				FACW species 50 x 2 = 100
1					FAC species 95 x 3 = 285
2					FACU species 0 x 4 = 0
3					UPL species 0 x 5 = 0
4					Column Totals: 165 (A) 405 (B)
5					
6					Prevalence Index = B/A = 2.45
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15'				X 2 - Dominance Test is >50%
4					$X = 3$ - Prevalence Index is $\le 3.0^1$
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
4					Problematic Hydrophytic Vegetation (Explain)
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		0	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	Tree Meady plants evaluding weady vines
Herb Stratum (Plot size:	5' )				<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Scirpus cyperinus		30	Y	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Scirpus atrovirens		20	N	OBL	Sapling – Woody plants, excluding woody vines,
3. Juncus tenuis		65	Y	_FAC	approximately 20 ft (6 m) or more in height and less
4. Symphyotrichum sp.		15	N	FAC_	than 3 in. (7.6 cm) DBH.
5. Euthamia graminifolia		15	<u>N</u>	FAC_	Shrub – Woody plants, excluding woody vines,
6. Ludwigia alternifolia		20	<u>N</u>	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					Woody Ville - All Woody Villes, regardless of fieight.
		165	= Total Cov	er	
	50% of total cover: 83	20% of	total cover:	33	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cov	er	Vegetation
	50% of total cover:0	20% of	total cover:	0	Present? YesX No
Remarks: (Include photo num	<u> </u>			_ <del></del>	1
Symphyotrichum sp. assumed	FAC based on wet conditions	S.			

Sampling Point: W-MJA-121520-01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix			Redox Features				<b>-</b> .	5
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u> %</u> 25	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 8	5Y 6/2		7.5YR 5/8			M/PL	Clay loam	
8 18	10YR 5/4	80					Clay loam	
8 18	5Y 6/2						Clay loam	
							·	
	ncentration, D=Deple	educed Matrix, MS	S=Masked	Sand Gra	ins.		=Pore Lining, M=Matrix.	
Hydric Soil Indicators:								tors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)  Dark Surface (S7)  Distriction Enjagent (A2)								cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  (MLRA 147, 148)								
Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19)								
Stratified Layers (A5)  Depleted Matrix (F3)  (MLRA 136, 147)								
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)								
Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)								
☐ Thick Dark Surface (A12) ☐ Redox Depressions (F8) ☐ Sandy Mucky Mineral (S1) (LRR N, ☐ Iron-Manganese Masses (F12) (LRR N,								
-	. 147, 148)	,	MLRA 13		3 (1 12) <b>(1</b>	-itit it,		
	leyed Matrix (S4)		☐ Umbric Surface (F13) (MLRA 136, 122)  ³Indicators of hydrophytic vegetation and					
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present,					land hydrology must be present,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.								
	.ayer (if observed):	No						
Type:			_					
	:hes):		_				Hydric Soil F	Present? Yes <u>X</u> No
Remarks:								





North South





East West

Soil Photos:

Wetland HM-080



Soil Profile

WETLAND DET	ERMINATI	ON D	ATA FORM	<ul> <li>Midwest F</li> </ul>					
Project/Site: AEP Hillsboro to Millbrook Park	(	City/Cou	unty:	Highland		Sampling	Date:	09/16/2	2019
Applicant/Owner: AEP		2341	100 3 200	State:	ОН	Sampling	Point:	Upland	I HM-001
Investigator(s): MJA, SAH		Section,	, Township, Rai	nge: Ohio Surveys	VIRGINIA M	ILITARY DIS	TRICT O	H93Highla	and Lot 908
				(concave, conve					
Slope (%): 5 Lat: 39.1722371		l ona:		-83.67	750919	Datum:			WGS 84
Soil Map Unit Name: Jonesboro-Rossmoyne silt loams,	2 to 6 percer	nt slope:	s	NIM	I classific	ation:			N//
Are climatic / hydrologic conditions on the site typical for t									
				Normal Circums			V	X	i.
Are Vegetation, Soil, or Hydrology								N	10
Are Vegetation, Soil, or Hydrology	Territoria de la constitución de la formación de la constitución de la constitución de la constitución de la c			eded, explain a	W\$0/ ==0.000000000000000000000000000000000				
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, tra	nsects	, import	tant f	eature	s, etc.
Hydrophytic Vegetation Present? Yes	No X			a ta disection.					
Hydric Soil Present? Yes			s the Sampled				~		
Wetland Hydrology Present? Yes	No X	v	vithin a Wetlan	id?	res	No.			
Remarks:	0.43								
Upland data point for Wetland HM-001 (w-mja-091619	-01).								
Field ID: U-MJA-091619-01									
VEGETATION - Use scientific names of plant	s.								
30'	Absolute		ant Indicator	Dominance T	est work	sheet:			
Tree Stratum (Plot size:)  1. Juglans nigra	% Cover	Specie	Status FACU	Number of Do				0	7.13
		-	1700	That Are OBL	, FACW, o	or FAC;			_ (A)
2				Total Number				5	(5)
3		77	<del></del>	Species Acros	ss All Stra	ta:			(B)
45.		1		Percent of Do				0	(A (D)
15'	20	= Total	Cover	That Are OBL	, FACW, o	or FAC:			(A/B)
Sapling/Shrub Stratum (Plot size:)	§	, otal		Prevalence In	dex worl	sheet:			
1. Lonicera maackii		Y	UPL	Total % C			Multip	oly by:	_
2. Rosa multiflora	15	Y	FACU	OBL species	0	^	=_	0	_
3.				FACW species		^2	2 =	90	
4	<del>-</del>			FAC species		^ .	3 =	0 560	
5	<b>—</b> — —	-		FACU species		^	! =	50	
Herb Stratum (Plot size:)	25	= Total	Cover	UPL species Column Totals				700	— (B)
1 Solidago canadensis	35	Υ	FACU	Column Totals		(A)		700	(B)
2. Eupatorium perfoliatum	15	N	FACW	Prevaler	nce Index	= B/A =	3	3.59	_
3. Lobelia siphilitica	25	N	FACW	Hydrophytic '	Vegetatio	n Indicat	ors:		
4. Impatiens capensis	5	N	FACW	1 - Rapid	Test for ⊢	lydrophyti	c Vege	atation	
5. Desmodium spp.	20	N	FACU	2 - Domin					
6. Schedonorus arundinaceus	50	Y	FACU_	3 - Preval					
7				4 - Morph	ological A	daptation or on a s	s¹ (Pro	vide sur	pporting
8		R <del>.</del>	- 154 <del></del> 1	Problema					
9	-67	-		irobicina	do rijaroj	nijuo vog	otatioi	(Expic	)
10	150	3 	- E	<sup>1</sup> Indicators of I	hvdric soil	and wetla	and hv	droloav	must
Woody Vine Stratum (Plot size: 30')	150	= Total	Cover	be present, un					habataa
1				Hydronbytic					
2.	-2//			Hydrophytic Vegetation				V	
JR894.5	0	= Total	Cover	Present?	Yes	s	No_	<u>X</u>	
Remarks: (Include photo numbers here or on a separate	e sheet.)			lo-					

		Annual III - Annual - III - II			(d).830(3)(F-5.00.43)	the absence of inc	
	Matrix (moist) %	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
. 101	/R 3/2 100		:			Loam	
4 - 10 10\	/R 3/3 100		V.80	N CO		Silt Loam	
10 - 12 10\	/R 4/4 100	# Z	10.00		- Ds	Clay Loam	88
	50.5	<u> </u>	0.2				
<u> </u>	17 <u>1</u>	9 8		n			<u></u>
	2004	<u> </u>	1				U.
	9504 T.C. <del>1</del>	-	100			* *	
1	200 <u>0</u>					2	
<sup>1</sup> Type: C=Concentrati Hydric Soil Indicator		√l=Reduced Matrix, M	S=Masked	Sand Gra	ins.		Pore Lining, M=Matrix. roblematic Hydric Soils <sup>3</sup> :
Histosol (A1)	5.	Sandy	Gleyed Ma	triv (SA)			e Redox (A16)
Histic Epipedon (A	A2)		Redox (S5			Dark Surface	The state of the s
Black Histic (A3)		166	d Matrix (S			3 6	nese Masses (F12)
Hydrogen Sulfide		Loamy	Mucky Mir	eral (F1)		Very Shallov	v Dark Surface (TF12)
Stratified Layers (	A5)		Gleyed Ma			Other (Expla	in in Remarks)
2 cm Muck (A10)	) - d. O f (A44)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ed Matrix (F	The state of the s			
Thick Dark Surface	Dark Surface (A11)		Dark Surfa ed Dark Su	(중인의 (8) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2		3Indicators of by	drophytic vegetation and
Sandy Mucky Min		10 San Carrie	Depression				ology must be present,
5 cm Mucky Peat	2 TO 12 TO 15 TO 1					[10] [10] [11] [12] [13] [13] [13] [13] [13] [13] [13] [13	bed or problematic.
Restrictive Layer (if	observed): Yes						11/
Type:	Clay	<u> </u>				Hudric Soil Pros	ent? Yes No _X
Depth (inches):	12					riyanc son Fresi	intritesNo
HYDROLOGY							
Wetland Hydrology I	ndicators:						
Delman, Idia-d	nimum of one is req	uired; check all that ap	oply)			0	
Filmary Indicators (mi						Secondary Inc	licators (minimum of two required)
Surface Water (A	1)	Water-Sta	ined Leave	es (B9)		2000 200 77 200	licators (minimum of two required) oil Cracks (B6)
poor to poor the state	45	Water-Sta Aquatic Fa				Surface S	CONTROL OF CONTROL
Surface Water (A' High Water Table Saturation (A3)	(A2)	Aquatic Fa	auna (B13) atic Plants	) (B14)		Surface S Drainage Dry-Seaso	oil Cracks (B6) Patterns (B10) on Water Table (C2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1)	(A2)	Aquatic Fa True Aqua Hydrogen	auna (B13) atic Plants Sulfide Oc	) (B14) dor (C1)		Surface S Drainage Dry-Seaso Crayfish E	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	(A2)	Aquatic Fa True Aqua Hydrogen Oxidized F	auna (B13) atic Plants Sulfide Oc Rhizosphei	) (B14) dor (C1) res on Livi	•	Surface S Drainage Dry-Sease Crayfish E (C3) Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3)	(A2) ds (B2)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence	auna (B13) atic Plants Sulfide Od Rhizosphe of Reduce	(B14) dor (C1) res on Livi d Iron (C4	)	Surface S Drainage Dry-Sease Crayfish E (C3) Saturation Stunted o	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crust	(A2) is (B2) i) t (B4)	Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	auna (B13) atic Plants Sulfide Oc Rhizosphe of Reduce on Reduction	(B14) dor (C1) res on Livi d Iron (C4 on in Tilled	)	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crust Iron Deposits (B5)	(A2) ds (B2) i) t (B4)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	auna (B13) atic Plants Sulfide Oc Rhizospher of Reduce on Reduction Surface (	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled	)	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	(A2) is (B2) ) t (B4) ) on Aerial Imagery (	Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck B7) Aquatic Fa True Aquatic Fa Presence Gauge or	auna (B13) atic Plants Sulfide Oc Rhizospher of Reduce on Reduction Surface ( Well Data	(B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9)	)	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	(A2) ds (B2) i) t (B4)	Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck B7) Aquatic Fa True Aquatic Fa Presence Gauge or	auna (B13) atic Plants Sulfide Oc Rhizospher of Reduce on Reduction Surface ( Well Data	(B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9)	)	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate	ts (B2) t (B4) on Aerial Imagery (ed Concave Surface	Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck B7) Aquatic Fa True Aquatic Fa Presence Gauge or	auna (B13) atic Plants Sulfide Oc Rhizospher of Reduce on Reduction Surface ( Well Data plain in Re	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled (C7) (D9) marks)	) I Soils (C6	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations:	ts (B2) t (B4) t on Aerial Imagery (ed Concave Surface	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or (B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizospher of Reduce on Reduction Surface ( Well Data plain in Re ches):	(B14) dor (C1) res on Livi d Iron (C4 on in Tilleo (C7) (D9) marks)	) I Soils (C6	Surface S Drainage Dry-Sease Crayfish B Stunted o Stunted o Geomorpl	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present?	(A2)  Is (B2)  It (B4)  It on Aerial Imagery (  ed Concave Surface  It?  Yes  Yes  Yes  Yes	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or (B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( Well Data plain in Re ches): ches):	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilleo (C7) (D9) marks)	) I Soils (C6	Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present	(A2)  Its (B2)  It (B4)  It on Aerial Imagery (  Ited Concave Surface  It?  Yes  Yes  Yes  Yes  Ge)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or G(B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( Well Data plain in Re ches): ches): ches):	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)	) Soils (C6	Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) oral Test (D5)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crust Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	(A2)  Its (B2)  It (B4)  It on Aerial Imagery (  Ited Concave Surface  It?  Yes  Yes  Yes  Yes  Ge)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or G(B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( Well Data plain in Re ches): ches): ches):	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)	) Soils (C6	Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) oral Test (D5)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crust Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	(A2)  Its (B2)  It (B4)  It on Aerial Imagery (  Ited Concave Surface  It?  Yes  Yes  Yes  Yes  Ge)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or G(B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( Well Data plain in Re ches): ches): ches):	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)	) Soils (C6	Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) oral Test (D5)
Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	(A2)  Its (B2)  It (B4)  It on Aerial Imagery (  Ited Concave Surface  It?  Yes  Yes  Yes  Yes  Ge)	Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or G(B8) Other (Exp	auna (B13) atic Plants Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( Well Data plain in Re ches): ches): ches):	(B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)	) Soils (C6	Surface S Drainage Dry-Sease Crayfish E Saturation Stunted o Geomorpl FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) o Visible on Aerial Imagery (C9) or Stressed Plants (D1) nic Position (D2) oral Test (D5)



North

WETLANI	D DETERMINAT	ION DAT	A FORM	<ul> <li>Midwest Reg</li> </ul>	jion			
Project/Site: AEP Hillsboro to Millbrook Park		City/County		Highland	Sampl	ing Date	09/17/2	2019
Applicant/Owner: AEP	g)"		fd <del>s.</del>	State: OI	H Sampl	ina Point	Upland	HM-002
Investigator(s): MJA, SAH	30 g	Section. To	wnship. Ra					
Landform (hillslope, terrace, etc.): Terrace				(concave, convex, r				
Slope (%): 0 Lat: 39.1654935359			Local relief	-83 6591198i	016 Detur			WGS 84
Hickory silt loam Illinoian 7	Fill Plain 12 to 18 ne	rcent slone	e eroded	00.0001100	Datum	·		N/A
Soil Map Unit Name: Hickory silt loam, Illinoian T								14//
Are climatic / hydrologic conditions on the site typi	cal for this time of ye	ar? Yes						~
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are '	Normal Circumstan	ces" present?	Yes_	N	lo_^
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eeded, explain any a	inswers in Re	marks.)		
SUMMARY OF FINDINGS - Attach sit	te map showing	samplin	a point l	ocations, trans	ects. impo	ortant f	feature	s. etc.
	V		3 Po		р			9, 010.
Hydrophytic Vegetation Present? Yes	X No X	Is th	e Sampled	Area				
	No X	30000	in a Wetla		N	lo X		
Remarks:	NO	(Although			: R 49	1550	.85	
Upland data point for Wetland HM-002 (W-MJA	091719-01). Data n	oint situate	ed in vouna	forest/shrub scrub	in t-line ROV	٧.		
Field ID: U-MJA-091719-01			y = g					
	및 30점 명							
VEGETATION – Use scientific names of	f plants.			400				
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Species?		Dominance Test	worksheet:			
1. Liriodendron tulipifera	<u> </u>	N N	FACU	Number of Domin That Are OBL, FA			4	(A)
2 Juglans nigra	45	Y	FACU	That Are OBL, FA	CVV, OI FAC.	19-		. (^)
3				Total Number of I			6	(D)
182 H		10/2	- T	Species Across A	li Strata:	10-		(B)
4 5.	40	30 <del>12</del>	( <del>)</del>	Percent of Domin		6	6.67	/
	60	= Total Cov		That Are OBL, FA	CW, or FAC:		0.07	(A/B)
Sapling/Shrub Stratum (Plot size:	)	- Total Co	701	Prevalence Inde	x worksheet	i		
1. Lindera benzoin	10	Y	FACW	Total % Cove	er of:	Multi	ply by:	
2. Sambucus nigra	20	Y	FAC	OBL species _	0	x 1 =	0	_
3. Rubus allegheniensis	15	Υ	FACU	FACW species _		x 2 =	100	
4		10		FAC species _	48	x 3 =	144	
5				FACU species _	83	x 4 =	332	
Harb Stratum (Plat size: 5'	45	= Total Co	/er	UPL species _		x 5 =	0	
Herb Stratum (Plot size:)  1 Elymus virginicus	40	Υ	FACW	Column Totals: _	181	(A)	576	(B)
2. Viola rotundifolia			FAC	Prevalence	Index = B/A		3.18	
3. Geum canadense	20	Y	FAC	Hydrophytic Veg		- 17		<del>-</del>
Ageratina altissima	8		FACU	1 - Rapid Tes			etation	
15/10/2		54	17.00	X 2 - Dominano	253 (5.3)		otation	
5				3 - Prevalence				
6		-		4 - Morpholog			ovide sur	porting
				data in Re	marks or on	a separa	te sheet)	,
8				Problematic I	Hydrophytic V	egetatio	n¹ (Expla	iin)
10.	£?? <del></del>		-					
	76	= Total Cov		<sup>1</sup> Indicators of hyd				must
Woody Vine Stratum (Plot size:30'	)	- Total Co	761	be present, unles	s disturbed or	problem	natic.	
1:				Hydrophytic				
2			1	Vegetation	Y			
		= Total Cov	/er	Present?	Yes X	_ No.		
Remarks: (Include photo numbers here or on a	separate sheet.)			dui-				

Profile Desc	ription: (Describe	to the depth ne	eded to docur	nent the i	indicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)		Color (moist)	%	_Type <sup>1</sup> _	_Loc <sup>2</sup> _	Texture	Remarks	
0 - 2	10YR 3/3	100		9,60	:		Loam		717
2 - 18	10YR 4/4	100					Silty loam		
-									
-				107	1.02	. 9			
-					7				
				W. E					- 112
S	-	#5 <del>1</del> # 5		20 <u>6 -</u>			-		125
		27/2 27 27		W.E	207				17.5
	oncentration, D=Dep	oletion, RM=Red	uced Matrix, Ma	S=Masked	d Sand Gra	ains.		L=Pore Lining, M=Matrix.	3
Hydric Soil I								Problematic Hydric Soil	s*:
Histosol	(A1) pipedon (A2)			Gleyed Ma Redox (S5			Dark Surfa	irie Redox (A16)	
Black Hi	A 10 10 10		169	d Matrix (S			3 6	anese Masses (F12)	
	n Sulfide (A4)		(1)	Mucky Mir	(5)		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ow Dark Surface (TF12)	
	Layers (A5)			Gleyed Ma	The state of the s		1	olain in Remarks)	
2 cm Mu			5 (10 (10 m) (10 m)	d Matrix (					
	Below Dark Surfac	e (A11)		Dark Surfa			900000000000000000000000000000000000000		20
	ark Surface (A12)		10 miles		urface (F7)			hydrophytic vegetation and	d
	lucky Mineral (S1) cky Peat or Peat (S	3)	L Redox	Depressio	ns (Fo)			drology must be present, turbed or problematic.	
(25)	ayer (if observed)	777					difficación dis	tarbed or problematic.	
Type:	ā 1877 — 5						N-500 - 100 - 140		V
11.000.010.00	ches):						Hydric Soil Pre	esent? YesN	• <u>X</u>
Remarks:	i (C		5×						
CONTRACTOR MANAGEMENT									
HYDROLO	GY								
Victoria de la companiona	drology Indicators:								
	ators (minimum of		shock all that ar	anlu)			Secondary I	ndicators (minimum of two	roquirod)
000000000000000000000000000000000000000	escentino <sup>200</sup> mberendo	one is required; o	POLESCONI DESCRIPTION	Tileus	(DO)			ndicators (minimum of two	requirea)
	Water (A1) ter Table (A2)		Water-Sta Aquatic Fa					Soil Cracks (B6) e Patterns (B10)	
Saturation			True Aqua					ason Water Table (C2)	
0.1000.000.000.000	arks (B1)		Hydrogen				130 201 10000	Burrows (C8)	
	nt Deposits (B2)		Oxidized F			ing Roots		on Visible on Aerial Image	ry (C9)
26	oosits (B3)		Presence			7.	3 15	or Stressed Plants (D1)	,, (00)
Trans- Victoria (Co.)	t or Crust (B4)		Recent Iro					rphic Position (D2)	
A CONTRACTOR OF THE PARTY OF TH	osits (B5)		Thin Muck					eutral Test (D5)	
Inundation	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)		) <del>- 18</del> - Alice de Litera	2001-100	
Sparsely	Vegetated Concav	e Surface (B8)	Other (Exp	olain in Re	emarks)				
Field Observ	vations:								
Surface Water	er Present? Y	es No _	X Depth (in	ches):		:			
Water Table	Present? Y	'es No _	X Depth (in	ches):		_8			
Saturation Pr	resent? Y	'es No _	X Depth (in	ches):		Wetl	and Hydrology Pr	resent? Yes N	lo X
(includes cap		anuan meniter	ing well periol	nhataa nr	euleue lee	nantional	if available:	24	40 69
Describe Rec	corded Data (stream	i gauge, monitor	ing weil, aeriai	priotos, pr	evious iris	pections),	ii avaliable.		
Domestica									
Remarks:									





South Soil Profile

WETLAND DET	ERMINATI	ON DAT	A FORM	- Midwest Re	egion			
Project/Site: AEP Hillsboro to Millbrook Park	(	City/County	r:	Highland	Sam	oling Date	09/18/	2019
Applicant/Owner: AEP		2.00	96	State:	OH Sami	oling Point	Upland	00-MH
		Section, To	wnship, Ra	nge: Ohio Surveys VI				
				(concave, convex,				
Slope (%): 10 Lat: 39.16042		Long:		-83.6472682219	9999 Datui	n:		WGS 8
Soil Map Unit Name: Hickory silt loam, 18 to 25 percent								N/.
Are climatic / hydrologic conditions on the site typical for t								
Are Vegetation, Soil, or Hydrology				"Normal Circumsta			X	No
Are Vegetation, Soil, or Hydrology				eeded, explain any			- 1892	N33;
			(2000)	75-1-17. DESK FJ620 1400115.				4-
SUMMARY OF FINDINGS – Attach site ma	T	sampiin	ig point i	ocations, tran	sects, imp	ortant	eature	es, etc.
Hydrophytic Vegetation Present? Yes		le ti	ne Sampled	I Area				
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		30000	in a Wetlar		s	No X		
Remarks:	NO				·			
Upland data point for Wetland HM-003 (W-MJA-09181	9-01). Data p	oint situate	ed in young	forest on east-fac	cing slope.			
Field ID: U-MJA-091819-01								
VEGETATION – Use scientific names of plant	e							
	Absolute	Dominant	Indicator	Dominance Tes	st worksheet			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dom				
1. Liriodendron tulipifera	80	Y	FACU	That Are OBL, F			2	_ (A)
2		1		Total Number of	f Dominant			
3		77		Species Across	All Strata:	0-	6	_ (B)
4	<del></del>	-	:: <del></del>	Percent of Dom			22	
5	80	= Total Co		That Are OBL, F	ACW, or FAC	>	33	(A/B)
Sapling/Shrub Stratum (Plot size:)		- Total Co	vei	Prevalence Ind	ex workshee	t:		
1. Ligustrum sinense	15	Y	FACU	Total % Co		Multi	ply by:	
2			SS <del>S</del>	OBL species	0	x 1 =	0	_
3.				FACW species	<u>10</u> 5	x 2 =	20 15	
4		5.,		FAC species	450	x 3 =	600	
5	15	<del></del>	· · · · · · · · · · · · · · · · · · ·	FACU species UPL species	0	x 4 = x 5 =	0	
Herb Stratum (Plot size:)		= Total Co	ver	Column Totals:		(A)	635	(B)
1. Fraxinus pennsylvanica	10	Υ	FACW	Ocidinii Totalo.	×			_ (5)
2. Geum canadense	5	Υ	FAC	11.00-21.2000-2000	e Index = B/A	·-	3.85	
3				Hydrophytic Ve	-		Windystrecht	
4		1	:- <u>-</u> -	1 - Rapid To			etation	
5				2 - Dominar				
6		-	-	3 - Prevaler 4 - Morphol			ovido ou	pporting
7				data in F	Remarks or or	a separa	te sheet	)
8 9			Co <del>lumbia</del> i	Problemation	Hydrophytic	Vegetatio	n¹ (Expla	ain)
10.				20				
	15	= Total Co	ver	<sup>1</sup> Indicators of hy be present, unle				must
Woody Vine Stratum (Plot size:)				be present, unie	ess disturbed (	or problem	latic.	
1. Lonicera japonica		Y Y	FACU	Hydrophytic				
2. Campsis radicans	<del></del>	-	FACU	Vegetation Present?	Yes	No_	Χ	
Remarks: (Include photo numbers here or on a separat		= Total Co	ver	ACT TO A SECURITION OF	nits 228 Co	or express		
Tremains. (include prioto flumbers fiere of on a separat	c silect.)							

Profile Descr	iption: (Describe	to the depth ne	eded to docu	nent the i	indicator of	or confirm	the absence of it	ndicators.)	
Depth	Matrix			x Feature	s		Page 1997	<u> </u>	
(inches) 0 - 4	Color (moist) 10YR 3/1		olor (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>		Remarks	
:		100		U.S.			Loam		- 10
4 - 18	10YR 3/1	100					Silty loam		
-									
-				100	5.07 (2)		A		
_				192	- TI				
		N		113					01
84 - <del></del> -	-	10 m		395	. ——		· · · · · · ·		- 3
- -	=	7% <u>=</u>		1012			**************************************		-
	ncentration, D=Dep	letion, RM=Redu	iced Matrix, M	S=Masked	d Sand Gra	ains.		=Pore Lining, M=Matrix	
Hydric Soil In								Problematic Hydric So	ils³:
Histosol (	L			Gleyed Ma			V	rie Redox (A16)	
	pedon (A2)		166	Redox (S5			Dark Surfa	87 73	
Black His	733 (3.55.)		0.00	d Matrix (S	40		6 355	anese Masses (F12)	
	Sulfide (A4)			7000 mm - 1000 mm	neral (F1)			ow Dark Surface (TF12)	
	Layers (A5)			Gleyed Ma			U Other (Exp	lain in Remarks)	
2 cm Muc	Below Dark Surface	e (Δ11)	5 10 10 10 10 10 10 10 10 10 10 10 10 10	d Matrix ( Dark Surfa					
	rk Surface (A12)	e (A11)			urface (F7)		3Indicators of h	nydrophytic vegetation a	nd
	ucky Mineral (S1)		10 miles	Depressio				drology must be present	
	cky Peat or Peat (S	3)		эоргооого	110 (1 0)			urbed or problematic.	
	ayer (if observed):	777						Mil.	
022	R (60) N						N-FO - 170 - 140 - 4000-		- V
10,000,000	hes):						Hydric Soil Pre	sent? Yes	No X
Remarks:		<u>\</u>							
HYDROLOG	SY								
Wetland Hydr	rology Indicators:								
	ators (minimum of o	ne is required: cl	neck all that ar	(ylac			Secondary Ir	ndicators (minimum of tv	vo required)
0000777700 000	Vater (A1)	2.	Water-Sta	nfoo	res (B9)			Soil Cracks (B6)	
	er Table (A2)	35	Aquatic Fa				SELECTION OF THE PERSON OF THE	e Patterns (B10)	
Saturation		2.	True Aqua					son Water Table (C2)	
Water Ma			Hydrogen				100000000000000000000000000000000000000	Burrows (C8)	
	Deposits (B2)	112			eres on Livi	ing Roots		on Visible on Aerial Imag	nery (C9)
Drift Depo		5			ed Iron (C4	7.	3 35	or Stressed Plants (D1)	
F	or Crust (B4)	8	Strate of the surface		ion in Tilled			phic Position (D2)	
Iron Depo		55	Thin Muck			2 00113 (00		utral Test (D5)	
	n Visible on Aerial I	magery (B7)	Gauge or				I AO NO	uliai rest (Do)	
THE STREET OF THE PROPERTY OF SECURITY	Vegetated Concave		Other (Ex		Unit School Co.				
Field Observa		countage (DO)		Jidiii iii i ke	Jiliai Koj				
Surface Water		es No	X Depth (in	ches):					
Water Table F		es No							
Saturation Pre		es No					and Hudrology Pr	esent? Yes	No X
(includes capi		es 140	Depti (iii	cries)		-   Well	and Hydrology Fr	esentr res	NO
Describe Reco	orded Data (stream	gauge, monitorii	ng well, aerial	photos, pr	revious ins	pections),	if available:		
Remarks:									





South Soil Profile

WETLAND DET	ERMINAT	ION DAT	A FORM	- Midwest Re	gion			
Project/Site: AEP Hillsboro to Millbrook Park		City/County:		Highland	Sa	mpling Date	09/18/	2019
				State: C	H Sa	mpling Poin	t: Upland	d HM-004
Investigator(s): MJA, SAH	10 8	Section, Tov	wnship, Ra			10 TO	174	
				(concave, convex,				
		Lona:		-83.64	541 <sub>Da</sub>	tum:		WGS 8
Soil Map Unit Name:	Neg	ley loam, 6	to 12 perc	ent slopes NWI c	lassificatio	n:		uplan
Are climatic / hydrologic conditions on the site typical for the								-
Are Vegetation, Soil, or Hydrology				'Normal Circumstar				X X
Are Vegetation, Soil, or Hydrology				eded, explain any				NO
SUMMARY OF FINDINGS – Attach site map	showing	sampling	g point l	ocations, trans	sects, in	nportant	feature	es, etc.
Hydrophytic Vegetation Present? Yes			_					
Hydric Soil Present? Yes		37005/0	e Sampled			X		
Wetland Hydrology Present? Yes	NoX	withi	n a Wetlar	nd? Yes	<u>'——</u>	No X		
Remarks: Upland data point situated on west-facing slope, in shri	ıb/scrub							
Field ID: U-MJA-091819-02	ub/scrub.							
Compression repression repression from the transfer of the tra								
VEGETATION – Use scientific names of plant	S.			400-				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Tes				
1				Number of Domi			1	(A)
2						makende se		- (- )
3				Total Number of Species Across			4	(B)
4								- (-/
5		P <u>I</u>		Percent of Domin			25.00	(A/B)
15'	0	= Total Cov	er			HALLES AS		- Negario
Sapling/Shrub Stratum (Plot size:)  1 Elaeagnus angustifolia	90	Υ	FACU	Prevalence Inde			inly by:	
	<del></del>		<del></del>	OBL species	^	x 1 =	iply by:	
2		<del></del>	<del></del>	FACW species		_ x2=_		=
4				FAC species		_ x3=_		
5		b <del>.                                    </del>		FACU species		_ x 4 = _		
0.00	00	= Total Cov	er	UPL species	0	x5=_	0	
Herb Stratum (Plot size:5'				Column Totals:	130	_ (A) _	505	(B)
1. Juncus tenuis	15	Y	FAC			210	3.88	
2. Ageratina altissima		<u>Y</u>	FACU_	Prevalence Hydrophytic Ve		(6) (3) (4)	0.00	
3				1 - Rapid Te	5		rotation	
4		<u> </u>	<u> </u>	2 - Dominan			jetation	
5				3 - Prevalen				
6		-		4 - Morpholo			ovide su	pporting
7 8						on a separa		
9.		10 <del>1</del>		Problematic	Hydrophyt	tic Vegetatio	on <sup>1</sup> (Expla	ain)
10.		-		· ·				
5	20	= Total Cov	er	<sup>1</sup> Indicators of hyd				must
Woody Vine Stratum (Plot size:)				be present, unies	sa uistui De	a or hroner	nauc.	
1. Rubus allegheniensis		<u>Y</u>	FACU	Hydrophytic				
2	20			Vegetation Present?	Vac	No	X	
		= Total Cov			ies			

Profile Description: (Des	# 200 12 P. C. 100 11 100 12 12 12 12 12 12 12 12 12 12 12 12 12					the abounce of h	Minister and State
Depth Ma (inches) Color (moi	atrix ist) %	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 5 10YR 3/	1 100		3.1			Loam	
5 - 10 10YR 3/	2 100		¥,/40	35 TO 100 TO		Loam	ч
	551 3	=	-0.0	e <del></del> -			"
			o <del>li</del>			5 5	
	77 E 12	=	JIS				
<u> </u>	20% 07	<u> </u>	VV25	<u> </u>		65 W 12	
-							
_							
<sup>1</sup> Type: C=Concentration, D	)=Depletion_RM:	=Reduced Matrix M	S=Masker	d Sand Gra	aine	2l ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil Indicators:	- Bepicaon, Tavi	-iteaucea matrix, m	O-Washer	a Garia Gre	an io.		Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy	Gleyed Ma	atrix (S4)			rie Redox (A16)
Histic Epipedon (A2)			Redox (S5			Dark Surfa	
Black Histic (A3)		100	d Matrix (S			Iron-Manga	anese Masses (F12)
Hydrogen Sulfide (A4)		Loamy	Mucky Mi	neral (F1)			ow Dark Surface (TF12)
Stratified Layers (A5)			Gleyed M			Other (Exp	olain in Remarks)
2 cm Muck (A10)	18 88 82 82 82	The state of the s	ed Matrix (	Various Residences			
Depleted Below Dark S	2000 CA		Dark Surfa			3	
Thick Dark Surface (A1		10 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m		urface (F7)			nydrophytic vegetation and
Sandy Mucky Mineral ( 5 cm Mucky Peat or Pe		L Redox	Depressio	ns (Fo)		10 2 m C 2 4 4 1 1 6 6 1 1 1 7 4	drology must be present, turbed or problematic.
Restrictive Layer (if obse						uniess dist	arbed of problematic.
R) (877)	Roots						<b>V</b>
	10					Hydric Soil Pre	sent? Yes No _X
10 0000 0000000000000000000000000000000	10					United Section 1 Section 19 (1991)	
Depth (inches):Remarks:		<del></del>					
Depth (inches):							
Depth (inches):Remarks:							
Depth (inches):Remarks:	ators:						
Depth (inches):Remarks:	ators:	red; check all that a	pply)				ndicators (minimum of two required)
Depth (inches):Remarks:	ators:	90 (89/2011) (99(8))	pply) ained Leav	res (B9)		Secondary In	Soil Cracks (B6)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the content of th	ators: m of one is requi	Water-Sta	ained Leav auna (B13	)		Secondary Ir Surface Drainage	Soil Cracks (B6) e Patterns (B10)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the content of th	ators: m of one is requi	Water-Sta	ained Leav	)		Secondary Ir Surface Drainage	Soil Cracks (B6)
Depth (inches):	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen	ained Leav auna (B13 atic Plants Sulfide O	(B14) dor (C1)		Secondary Ir Surface Drainag Dry-Sea	Soil Cracks (B6) e Patterns (B10)
Depth (inches):	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe	(B14) dor (C1) eres on Liv	•	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatio	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indication  Primary Indicators (minimularity)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce	(B14) dor (C1) eres on Livied Iron (C4	1)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indication  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ire	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti	(B14) dor (C1) eres on Livied Iron (C4) ion in Tilled	1)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimus)  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)	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru Thin Muc	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface	(B14) dor (C1) eres on Livied Iron (C4) ion in Tilled (C7)	1)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the control of th	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ire Thin Muci	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduction Reduction Surface ( Well Data	(B14) dor (C1) eres on Livi ed Iron (C4 ion in Tilled (C7) (D9)	1)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the control of th	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ire Thin Muci	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface	(B14) dor (C1) eres on Livi ed Iron (C4 ion in Tilled (C7) (D9)	1)	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimulation (A3))  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 A  Sparsely Vegetated Co	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Int Thin Muct Gauge or B8) Other (Ex	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ( Well Data plain in Re	(B14) (B14) dor (C1) eres on Livi ed Iron (C4 ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimulation)  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 A  Sparsely Vegetated Co  Field Observations:  Surface Water Present?	ators: m of one is requi  2)  Aerial Imagery (Bencave Surface (I	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc Gauge or B8) Other (Ex	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reduct k Surface ( Well Data plain in Re	(B14) (B14) dor (C1) eres on Livied Iron (C4) ion in Tilled (C7) (D9) emarks)	H)  d Soils (C6	Secondary Ir Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the content of th	ators: m of one is requi	Water-Sta Aquatic F Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent In Thin Muc Gauge or B8) Other (Ex No X Depth (in	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reduction Sulface (Well Data plain in Reduction Reduction Reduction Sulface (Well Data plain in Reduction Reduction):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Dry-Sea Crayfish Saturation Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) isotral Test (D5)
Depth (inches):  Remarks:	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc Gauge or B8) Other (Ex	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reduction Sulface (Well Data plain in Reduction Reduction Reduction Sulface (Well Data plain in Reduction Reduction):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Dry-Sea Crayfish Saturation Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) eson Water Table (C2) e Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ephic Position (D2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators (minimum of the content of th	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Muci Gauge or B8) Other (Ex  No X Depth (in No X Depth (in	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ( Well Data plain in Reduction aches):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Crayfish (C3) Saturatie Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) isotral Test (D5)
Depth (inches):  Remarks:	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Muci Gauge or B8) Other (Ex  No X Depth (in No X Depth (in	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ( Well Data plain in Reduction aches):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Crayfish (C3) Saturatie Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) isotral Test (D5)
Depth (inches):  Remarks:	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Muci Gauge or B8) Other (Ex  No X Depth (in No X Depth (in	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ( Well Data plain in Reduction aches):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Crayfish (C3) Saturatie Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) isotral Test (D5)
Depth (inches):  Remarks:	ators: m of one is requi	Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Muci Gauge or B8) Other (Ex  No X Depth (in No X Depth (in	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ( Well Data plain in Reduction aches):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (D9) emarks)	d Soils (C6	Secondary Ir Surface Drainage Crayfish (C3) Saturatie Stunted Geomor FAC-Ne	Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rephic Position (D2) isotral Test (D5)





Southeast Soil Profile

Wi	ETLAND DET	ERMINAT	ION DAT	A FORM	I – Midwest Re	gion			
Project/Site: AEP Hillsboro to Millbrook	k Park		City/County	r:	Highland	Sar	npling Dat	e: 09/19/	2019
Applicant/Owner: AEP			280 16	19.	State: C	OH Sar	npling Poir	nt: Upland	300-MH b
Investigator(s): MJA, SAH		20 8	Section, To	wnship, Ra	ange: Ohio Surveys VIF	RGINIA MILITA	RY DISTRICT	OH93Highl	and Lot 251
Landform (hillslope, terrace, etc.): Hillsic					(concave, convex,				
Slope (%): 20 Lat: 39.15654			I ona:		-83.63	3845 Dat	nw.		WGS 8
Soil Map Unit Name: Negley loam, 18 to	o 25 percent slop	es	Long.			classification			N/.
Are climatic / hydrologic conditions on the			ar2 Vac	X No					
									. X
Are Vegetation, Soil, or F					"Normal Circumsta				NO
Are Vegetation, Soil, or F	lydrology	naturally pro	blematic?	(If n	eeded, explain any	answers in	Remarks.)	,	
SUMMARY OF FINDINGS - At	tach site map	showing	samplin	g point l	locations, tran	sects, im	portant	feature	es, etc.
Hydrophytic Vegetation Present?	Yes	No X							
Hydric Soil Present?	Yes		Is th	ne Sample			0000		
Wetland Hydrology Present?	Yes	No X	with	in a Wetla	nd? Yes	s	No X		
Remarks: Upland data point for W-MJA-091919-	01 Data noint sit	uated on ea	st-facing sl	one in old t	field				
Field ID: U-MJA-091919-01	o i. Data point sit	dated on ea	st-lacing si	ope in old i	ncia.				
	2 101 9								
VEGETATION – Use scientific n	ames of plants								
Tree Stratum (Plot size: 30'	)	Absolute % Cover		Indicator Status	Dominance Tes				
1	.303		1		Number of Domi That Are OBL, F			1	_ (A)
3					Total Number of Species Across			4	(B)
4.			New State of the S				is		_ (0)
5			(S <u>et</u>	· <u>· · · · · · · · · · · · · · · · · · </u>	Percent of Domi			25.00	(A/B)
BOOK FORTY WINDOW MY BOOK 20 BY BOOK MY	15'	0	= Total Co	ver		CONTRACTOR CONTRACTOR	0.00000		- N. 3574
Sapling/Shrub Stratum (Plot size:  Rosa multiflora	)	40	Y	FACU	Prevalence Inde			that the second	
2. Rubus allegheniensis		10		FACU	Total % Cov	0 0	x 1 =	tiply by: 0	
		- 10		1700	OBL species FACW species	-	- x 1 x 2 =		_
3.					FAC species	50	_ x2 x3=	450	
5		5)//	85.	35	FACU species	70	x 4 =	200	
		50	= Total Co	ver	UPL species	_	x 5 =	0	
Herb Stratum (Plot size:5'	)	()-			Column Totals:	120	(A)	430	(B)
1. Ageratina altissima			Y	FACU	(5)			3.58	
2. Microstegium vimineum		50	Y	FAC	N. Contraction of the Contractio	Index = B	3000 00		
3					Hydrophytic Ve	-			
4		<u> </u>	51	-	1 - Rapid Te			getation	
5					2 - Dominan 3 - Prevalen				
6					4 - Morpholo			rovide su	nnorting
7					data in R	emarks or	on a separ	ate sheet	t)
8 9				o. <del>====</del> ,	Problematic	Hydrophyti	c Vegetation	on¹ (Expl	ain)
10.			S <del>S</del>		21				
Woody Vine Stratum (Plot size:	30'	70	= Total Co	ver	<sup>1</sup> Indicators of hyd be present, unles				must
1					Hydronbutio				
2.			195	2 <del>4.</del>	Hydrophytic Vegetation			V	
3300-0			= Total Co	ver	Present?	Yes	No	<u>x</u>	
Remarks: (Include photo numbers here	e or on a separate	sheet.)			-1				

Profile Descr	iption: (Describe	to the depth ne	eded to docu	nent the i	indicator of	or confirn	n the absence of in	ndicators.)	
Depth	Matrix			x Feature		-	Fe224 - 190	1 22 A VIII - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(inches) 0 - 4	Color (moist) 10YR 4/3		olor (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks	
:		100		1/40			Loam		-10
4 - 10	10YR 4/6	100					Clay loam		
-									
-				100	5.07 (2)		\$		
_	i i								
	2			W. E					01
	i :	78 <del>1 - 1</del> <del>1</del>		894	. —		· · · · · · · ·		- 125
-	E	m		WE	200				103
	ncentration, D=Dep	letion, RM=Red	uced Matrix, M	S=Masked	d Sand Gra	ains.		_=Pore Lining, M=Matrix	
Hydric Soil In	idicators:						Indicators for	Problematic Hydric Sc	oils³:
Histosol (				Gleyed Ma	170		V	rie Redox (A16)	
	pedon (A2)		166	Redox (S5			Dark Surfa	8) 7)	
Black Hist	20.000		0.00	d Matrix (S	40		6 5073	anese Masses (F12)	
	Sulfide (A4)			7000 mm - 1000 mm	neral (F1)			ow Dark Surface (TF12)	D)
2 cm Muc	Layers (A5)			Gleyed Ma			Uther (Exp	olain in Remarks)	
	Below Dark Surface	ο (Δ11)	- 10 Sept	d Matrix ( Dark Surfa					
	k Surface (A12)	e (A11)			urface (F7)		3Indicators of h	nydrophytic vegetation a	and
100 Sept. 100 Se	ucky Mineral (S1)		200 St. (Control of the Control of t	Depressio				drology must be present	
	ky Peat or Peat (S	3)	A TARAMENT					urbed or problematic.	
Restrictive La	ayer (if observed):	Yes						10.	
Type:	Roots/cla	У					1-50 -33 -42 -804		× ×
Depth (inch	nes):	10					Hydric Soil Pres	sent? Yes	No X
Remarks:	18:		SC						
HYDROLOG	SY								
Wetland Hydr	rology Indicators:								
Primary Indica	ators (minimum of o	ne is required; o	check all that ar	ply)			Secondary Ir	ndicators (minimum of tw	wo required)
Surface V		Q	☐ Water-Sta		res (B9)		Surface	Soil Cracks (B6)	
	er Table (A2)		Aquatic Fa					e Patterns (B10)	
Saturation	Control of the Contro		True Aqua					son Water Table (C2)	
Water Ma			Hydrogen				100 D 000 000 000	Burrows (C8)	
	Deposits (B2)				eres on Livi	ing Roots		on Visible on Aerial Ima	gery (C9)
Drift Depo					ed Iron (C4	7.	Cl 35	or Stressed Plants (D1)	
The state of the s	or Crust (B4)		Comment of the Commen		ion in Tilled			phic Position (D2)	
Iron Depo			Thin Muck					utral Test (D5)	
	n Visible on Aerial I	magery (B7)	Gauge or		Section 100 Persons				
THE THE PERSON OF COME	Vegetated Concave	AND THE PARTY OF T	Other (Ex		(A18-0-001-18)				
Field Observa					T44.0000000000.A				
Surface Water	r Present? Y	es No _	X Depth (in	ches):					
Water Table P		es No _							
Saturation Pre		es No _					and Hydrology Pr	esent? Yes	No X
(includes capil		cs No	Depti (iii	Ci163)		_   ******	and riyarology i n	esent: 1es	
Describe Reco	orded Data (stream	gauge, monitor	ing well, aerial	photos, pr	revious ins	pections),	if available:		
Remarks:									





North Soil Profile

WETLAND DETER	RMINAT	ION I	DAT	4 FORM	<ul> <li>Midwest I</li> </ul>	Region				
Project/Site: AEP Hillsboro to Millbrook Park		City/C	ounty:		Highland		Sampling	Date:	09/19/2	2019
Applicant/Owner: AEP	90		100	5.00	State:	ОН	Sampling	Point:	Upland H	IM-006,007
Investigator(s): SAH-MJA		Sectio	n, Tov	wnship, Ra	nge: Ohio Surveys	s VIRGINIA M	IILITARY DIST	RICT O	H93Highla	ind Lot 421
					(concave, conv					
		Long:			-83.62637186	316667	Datum: _			WGS 84
Soil Map Unit Name: Otwell silt loam, 25 to 35 percent slop					NV					
Are climatic / hydrologic conditions on the site typical for this										
Are Vegetation, Soil, or Hydrology sig	gnificantly	disturt	ped?	Are "	Normal Circum	stances" p	oresent?	es _	X N	lo
Are Vegetation, Soil, or Hydrology na	turally pro	blema	tic?		eded, explain a					
SUMMARY OF FINDINGS - Attach site map s	howing	sam	plin	a point le	ocations, tra	ansects	import	ant f	eature	s. etc.
		Juin	, piiii	g point it	oodilons, tre	41130013	, import		catare	3, 010.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			Is the	e Sampled	Area					
Wetland Hydrology Present? Yes No			withi	in a Wetlan	nd?	Yes	No_	X	_	
Remarks:										
within maintained electrical transmission line easement										
Field ID: U-MJA-091919-02										
<b>VEGETATION</b> – Use scientific names of plants.										
301	Absolute			Indicator	Dominance 7	Test work	sheet:			
	% Cover	Spec	cies?	Status	Number of Do That Are OBL				0	(A)
1							roemwanterae te			. (^)
3					Total Number Species Acro				1	(B)
4.							SCHOOL 185		-	(0)
5		<u> </u>			Percent of Do That Are OBL			0	.00	(A/B)
Sauling (Shark Stratum (Plateira)	0	= Tota	al Cov	er	Prevalence I	ndov wor	kehoot:			0 00-000
Sapling/Shrub Stratum (Plot size:)  1					Total % (			Multin	oly by:	
2.		-		9. 9.	OBL species				0	
3.					FACW specie	es0	x 2	=	0	
4					FAC species		x 3	=		
5					FACU specie		^	=	332	_
Herb Stratum (Plot size:5' )	0	= Tota	al Cov	er	UPL species			=	0	
1 Setaria faberi	70	١	1	FACU	Column Total	s:o	(A)	-	332	(B)
2 Cirsium arvense	10	١	1	FACU	Prevale	nce Index	= B/A = _	4	1.00	_
3. Asclepias syriaca	3		1	FACU	Hydrophytic	Vegetatio	on Indicate	ors:		
4		01		1	1377		Hydrophytic	: Vege	etation	
5					2 - Domir					
6					3 - Preva		ex is ≤3.0° Adaptations	1 (D	سريم حاملان	
7				<u></u>			s or on a se			
8 9					Problema	atic Hydro	phytic Vege	etation	1 (Expla	iin)
10.		-		<u> </u>	20					
	83	= Tota	al Cov	er	<sup>1</sup> Indicators of be present, u					must
Woody Vine Stratum (Plot size:)					be present, u	niess dist	irbed or pr	oblem	auc.	
1				4 4	Hydrophytic					
2	0	- Tof-	al Car		Vegetation Present?	Ye	s	No_	X	
Remarks: (Include photo numbers here or on a separate sh		= Tota	ai COV	er		H16550				
Mowed hayfield										

Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)  Restrictive Layer (if observed): No Type: Depth (inches): Depleted Matrix (F2) Depleted Dark Surface (F7) Redox Depressions (F8)  Wetland Hydrology unless disturbed  Hydric Soil Present?  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) Sutration (A3) Water Marks (B1) Drift Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Valuer Table Present?  Ves No X Depth (inches): Water Table Present? Ves No X Depth (inches): Water Table Present? Ves No X Depth (inches):  Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F7) Wetar Surface Matrix (F3) Wetar Table (A2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Dark Surface (F7) Redox Dark Surface (F7) Wetar Table Matrix (F3) Pepleted Dark Surface (F7) Pedox Depleted Dark Surface (F7) Redox Dark Surface (F7) Wetar Table (A2) Presence of Reduced Iron (C4) Surface Water Present? Primary Indicators (F7)	Remarks
0 - 4 10YR 5/3 100 / Clay loam  - 12 10YR 4/3 100 / Clay loam	remand
- "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains."  - "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains."  - "Authoric Soil Indicators:	
- "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains."  - "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains."  - "Authoric Soil Indicators:	
Hydric Soil Indicators:    Histic Soil (A1)	
Hydric Soil Indicators:    Histic Soil (A1)	
Hydric Soil Indicators:    Histic Soil (A1)	
Hydric Soil Indicators:    Histic Soil (A1)	.1
Hydric Soil Indicators:    Histic Soil (A1)	
Hydric Soil Indicators:    Histic Soil (A1)	
Hydric Soil Indicators:    Histic Soil (A1)	Lining M=Matrix
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Bepleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Black Histic (A3) Bepleted Matrix (F3) Bepleted Mat	
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Restrictive Layer (if observed): No Type: Depth (inches):  Remarks:    Water Table (A2)   Saturation (A3)   Water Marks (B1)   Saturation (A3)   Water Marks (B1)   Saturation (A3)   Water Marks (B2)   Drift Deposits (B3)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Iron Manganese   Very Shallow Da Ve	
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Peat or Peat (S3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Redox Depressions	
Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)  Restrictive Layer (if observed): No Type: Depleted Matrix (F2) Depleted Dark Surface (F7) Redox Depressions (F8)  Wetland hydrolog unless disturbed  Restrictive Layer (if observed): No Type: Depth (inches): Depleted Dark Surface (F7) Redox Depressions (F8) Wetland hydrolog unless disturbed  Hydric Soil Present?  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Fauna (B13) Drainage Patt Saturation (A3) Water Marks (B1) Saturation (A3) Water Marks (B1) Drift Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Deposits (P2) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F7) Redox Dark Surface (F7) Water Assurface (F7) Redox Dark Surface (F7) Presence of Reduced Iron (C4) Stunted or Str Iron Reduction in Tilled Soils (C6) Recent Iron Reduction in Tilled Soils (C6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Ves No X Depth (inches): Water Table Present? Ves No X Depth (inches):	Masses (F12)
2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Some Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Depth (inches): De	k Surface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Somethia Surface (F7) Redox Depressions (F8) Somethia Surface (F7) Redox Depressions (F8) Wetland hydrology unless disturbed unless disturbed unless disturbed  Restrictive Layer (if observed): No Type: Depth (inches): Depth (inches): Remarks:    Hydric Soil Present?	Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Storm Mucky Peat or Peat (S3)  Restrictive Layer (if observed): No Type: Depth (inches): Depth (inches): 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) Iron Deposits (B6) Iron Deposits (B6) Surface (B7) Redox Depressions (F8) Iron Medicators (F7) Redox Depressions (F8) Iron Medicators (F7) Redox Depressions (F8) Iron Medicators (F7) Redox Depressions (F8) Iron Medicators (F8) Iron	
Sandy Mucky Mineral (S1)	nytic vegetation and
Restrictive Layer (if observed): No Type: Depth (inches):  Remarks:    Hydric Soil Present?	y must be present,
Type:	or problematic.
Remarks:    Hydric Soil Present?   Hydric Soil Hydric Soil Present?   Hydric Soil Present?   Hydric Soil Hydric Soil Present?   Hydric Soil Hydric Soil Present?   Hydric Hyd	
Remarks:    IVDROLOGY   Wetland Hydrology Indicators:   Secondary Indicators   Secondary Indicators   Surface Water (A1)   Water-Stained Leaves (B9)   Surface Soil C   High Water Table (A2)   Aquatic Fauna (B13)   Drainage Patte   Drainage Patt	Vac No X
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water No X  Depth (inches):  Water Narks (B1)  Drevoseason W  Algal Mat or Crust (B4)  Drevoseason W  Dr	165 110
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)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Table Present?  Yes No _X _ Depth (inches):  Water Surface (Check all that apply)  Secondary Indicators  Secondary Indica	
Primary Indicators (minimum of one is required: check all that apply)  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)  Sparsely Vegetated Concave Surface (B8)  Water Table Present?  Yes No _X _ Depth (inches):  Water Table Present?  Water Stained Leaves (B9)  Aquatic Fauna (B13)  Drainage Patter  Aquatic Fauna (B13)  Drainage Patter  Dry-Season Water Present (C1)  Crayfish Burron  Crayfish	
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)  Sparsely Vegetated Concave Surface (B8)  Water Table (A2)  Water Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Dry-Season Water Present?  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Water Table Present?  Ves NoX Depth (inches):  Water Table Present?  Ves NoX Depth (inches):	
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)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Table (A2)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Dry-Season Water Visible of C1)  Crayfish Burro  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Packer (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No X Depth (inches):  Water Table Present?  Yes No X Depth (inches):	ors (minimum of two required)
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)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes NoX _ Depth (inches):  Water Marks (B14)  Hydrogen Sulfide Odor (C1)  Crayfish Burro  Saturation Vision  Saturation Vision  Geomorphic P  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Water Table Present?  Yes NoX Depth (inches):  Water Table Present?  Yes NoX Depth (inches):	
Water Marks (B1)	
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic P  FAC-Neutral T  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Water Table Present?  Yes NoX Depth (inches):  Water Table Present?  Oxidized Rhizospheres on Living Roots (C3)  Saturation Vis	The second secon
Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic P  FAC-Neutral T  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Water Table Present?  Yes NoX Depth (inches):  Water Table Present?  Yes NoX Depth (inches):	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes NoX _ Depth (inches):  Water Table Present?  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic P  FAC-Neutral T  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes NoX _ Depth (inches):	ble on Aerial Imagery (C9)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present?  Yes No _X _ Depth (inches): Water Table Present?  Yes No _X _ Depth (inches):	
Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No _X _ Depth (inches):  Water Table Present?  Yes No _X _ Depth (inches):	
Sparsely Vegetated Concave Surface (B8)         □ Other (Explain in Remarks)           Field Observations:           Surface Water Present?         Yes No _X Depth (inches):           Water Table Present?         Yes No _X Depth (inches):	331 (30)
Surface Water Present?         Yes No _X Depth (inches):           Water Table Present?         Yes No _X Depth (inches):	
Water Table Present? Yes No _X _ Depth (inches):	
Detection December 19 No. 11 X	
Saturation Present? Yes No _X Depth (inches): Wetland Hydrology Present	? Yes NoX
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	\$4 00 fc A
Remarks:	

US Army Corps of Engineers Midwest Region – Version 2.0





North Soil Profile

	DETERMINAT	ION DATA	AFORIVI	– Midwest Reg	7007-00		00/20/	2010
1.00		City/County:			Sampl	ing Date:	09/20/2	2019
Applicant/Owner: AEP						ing Point		
				nge: Ohio Surveys VIR			H93Highla	ind Lot 421
Landform (hillslope, terrace, etc.): Hillside		L	ocal relief	(concave, convex, r	none): Rolling	9		
Slope (%):10 Lat: _39.15012		Long:		-83.62	349 Datum	<u> </u>		WGS 84
Soil Map Unit Name: Otwell silt loam, 12 to 18 perc	ent slopes, mode	rately erode	d	NWI cl	assification: _			N/A
Are climatic / hydrologic conditions on the site typical	I for this time of ye	ar? Yes	No_	(If no, explai	n in Remarks	.)		
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are	Normal Circumstan	ces" present?	Yes	X N	lo
Are Vegetation, Soil, or Hydrology				eded, explain any a			1100	Next.
TABLE	White and the second section of the section of the second section of the		020000				**************************************	
SUMMARY OF FINDINGS – Attach site	map snowing	sampling	g point i	ocations, trans	ects, impo	ortant i	eature	s, etc.
Hydrophytic Vegetation Present? Yes X	110	la the	Camples					
	NoX	3733533	Sampled		N	_ X		
	NoX	Withi	n a Wetla	id? Tes	N	0	-8	
Remarks: Upland data point for W-MJA-092019-01. Data po	int situated on no	rth-facing el	nne under	transmission line				
Field ID: U-MJA-092019-01	int situated on no	itii-iaciiig sit	ppe under	transmission line.				
00000	NOV 10							
VEGETATION – Use scientific names of p	olants.			wine-				
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?		Dominance Test				
1	_70 COVE	opecies:	_Glatus_	Number of Domir That Are OBL, FA			2	(A)
2						8 9 <del></del>		(//)
3.		10 <del></del>		Total Number of I Species Across A			3	(B)
4.		1977 - 1973 1984 - 1974	A M			)( <del></del>		(0)
5				Percent of Domin That Are OBL, FA		66	3.67	(A/B)
25'	0	= Total Cov	er		CONTRACTOR CONTRACTOR CONTRACTOR			N. Seriel
Sapling/Shrub Stratum (Plot size:	)	V	EAC	Prevalence Inde			*************	
1. Betula alleghaniensis 2. Liriodendron tulipifera		<u>Y</u> N	FACU	Total % Cove	0		oly by:	_
3. Rosa multiflora	45	- N	FACU	OBL species _ FACW species _		x 1 = x 2 =	70	-
	5/	•	17100	FAC species _		x 2 = x 3 =	144	
4	<del>5</del> 88 - 1	9 <del>1</del> 8	3 3	FACU species		x 4 =	240	
	95	= Total Cov	er	UPL species	9	x 5 =	0	===
Herb Stratum (Plot size:)	()————	- rotar oov	J1:	Column Totals:		(A)	454	(B)
1. Geum canadense	8	N	FAC	1000			2 1 1	-000
2. Dichanthelium clandestinum	35	Y	FACW	I Commence of the Commence of	Index = B/A		3.11	
3. Rubus allegheniensis	5	N	FACU	Hydrophytic Veg			100021 011	
4		5 <del>2</del>	- 19	1 - Rapid Tes			etation	
5				X 2 - Dominano 3 - Prevaleno				
6		· <del></del> -		4 - Morpholo			wide eur	oporting
7				data in Re	emarks or on a	a separat	e sheet	)
8				Problematic	Hydrophytic V	egetation	n¹ (Expla	iin)
9	<u> </u>	12 <del>11  </del> 62	<u> </u>	.50				
10	51	= Total Cove	er e	<sup>1</sup> Indicators of hyd				must
Woody Vine Stratum (Plot size: 30'	_)	- Total Covi	51	be present, unles	s disturbed or	problem	atic.	
1				Hydrophytic				
2				Vegetation Present?	Yes_X	No		
		= Total Cov	er	Present	res	_ NO -		
Remarks: (Include photo numbers here or on a se	parate sheet.)							

Profile Descr	iption: (Describe	to the depth ne	eded to docur	nent the i	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix			x Feature	s 1		PE 0.00 000	
(inches) 0 - 3	Color (moist) 10YR 3/2		Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup> _	Texture	Remarks
				War .			Loam	
3 - 18	10YR 5/4	97	5YR 4/6	3	C	M	Silt loam	
-								
-				1072			X	
_					- T			27
		· · · · · · · · · · · · · · · · · · ·						0.
	-			102				- 12
		<u>.</u>		2012	200			
	ncentration, D=Dep	letion, RM=Red	uced Matrix, Ma	S=Masked	d Sand Gra	ains.		=Pore Lining, M=Matrix.
Hydric Soil Ir								Problematic Hydric Soils <sup>3</sup> :
Histosol (	L			Gleyed Ma	177		V	e Redox (A16)
	pedon (A2)		1070	Redox (S5			Dark Surfac	8 7
Black His	Sulfide (A4)		0.00	d Matrix (S Mucky Mir	60		0.000	nese Masses (F12) w Dark Surface (TF12)
	Layers (A5)			Gleyed Ma	The state of the s			ain in Remarks)
2 cm Muc				d Matrix (			Other (Expir	an in Komano)
	Below Dark Surface	e (A11)	5000,400,000	Dark Surfa				
	rk Surface (A12)	SV11000001100			ırface (F7)	į.	3Indicators of hy	ydrophytic vegetation and
Sandy Mu	ucky Mineral (S1)		Redox I	Depressio	ns (F8)		wetland hyd	rology must be present,
(22)	cky Peat or Peat (S						unless distu	rbed or problematic.
Restrictive L	ayer (if observed):	No						
Type:							Hydric Soil Pres	ent? Yes No _X_
Depth (incl	hes):						riyuric son ries	lent: Tes No
HYDROLOG	SY.							
Wetland Hyd	rology Indicators:							
	ators (minimum of o	ne is required: o	check all that ar	(ylgo			Secondary Inc	dicators (minimum of two required)
0000 To 00	Vater (A1)	2.	Water-Sta		es (B9)		- A	Soil Cracks (B6)
	er Table (A2)		Aquatic Fa				Figure 1997	Patterns (B10)
Saturation			True Aqua					on Water Table (C2)
Water Ma			Hydrogen				100000000000000000000000000000000000000	Burrows (C8)
	Deposits (B2)		Oxidized F			ing Roots		n Visible on Aerial Imagery (C9)
Drift Depo			Presence			7.	3 15	or Stressed Plants (D1)
Algal Mat	or Crust (B4)		Recent Iro					hic Position (D2)
Iron Depo			Thin Muck	Surface (	(C7)		TAN THE PROPERTY OF THE PARTY O	itral Test (D5)
Inundatio	n Visible on Aerial I	magery (B7)	Gauge or		Additional Control			
Sparsely	Vegetated Concave	Surface (B8)	Other (Exp	olain in Re	emarks)			
Field Observ	ations:			***************************************	**************************************			
Surface Wate	r Present? Y	es No _	X Depth (in	ches):				
Water Table F		es No _						
Saturation Pre	esent? Y	es No _	X Depth (in	ches):		Wetla	and Hydrology Pre	sent? Yes No _X
(includes capi Describe Rec	llary fringe) orded Data (stream	gauge, monitor	ing well, aerial	photos, pr	evious ins		//50 550	\$8 Z. 75 W
		15. S.O.	West Williams	103		8		
Remarks:								





South Soil Profile

WETLAND DETE	RMINATI	ION DAT	A FORM	- Midwest	Region				
Project/Site: AEP Hillsboro to Millbrook Park		City/County:		Highland		Sampling	Date: 0	09/20/20	)19
Applicant/Owner: AEP			-	State:	ОН	Sampling	Point:	Jpland F	
		Section, To	wnship, Ra	nge: Ohio Survey					
Landform (hillslope, terrace, etc.); Shoulder slope			ocal relief	(concave, conv	ex. none):	None			
Slope (%): 3 Lat: 39.1478432852		Long: -83.6	17595547	8		Datum:		٧	VGS 8
Soil Map Unit Name: Otwell silt loam, 18 to 25 percent slo	pes, mode	rately erode	ed .	NV	VI classific	ation: N/A			
Are climatic / hydrologic conditions on the site typical for this				(If no, ex	kplain in R	lemarks.)			
Are Vegetation, Soil, or Hydrology si				Normal Circum			'es_	No	X
Are Vegetation, Soil, or Hydrology na				eeded, explain a				Triodys	50
SUMMARY OF FINDINGS - Attach site map s	showing	samplin	a noint l	ocations tr	ansects	import	ant fe	atures	etc
		Samping	g point i	ocations, ti	ansects	, import	ant ic	atures	, e.c.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		Is th	e Sampled	l Area					
Wetland Hydrology Present? Yes No		300000	in a Wetlar		Yes	No _	Χ		
Remarks:		Williams			1907.500				
Upland data point situated on east-facing slope, in mainta	ained elect	rical transm	ission line	easement.					
Field ID: U-MJA-092019-02									
VEGETATION – Use scientific names of plants.	5								
30'	Absolute	Dominant		Dominance '	Test work	sheet:			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Do		* A CONTRACTOR OF THE PARTY OF	1		
1				That Are OBI	., FACW,	or FAC: _			(A)
3	8 <u></u> 1	2	1	Total Number			4		(D)
3 4		·	A A	Species Acro	SS All Stra	ıta: _	•		(B)
5.	···			Percent of Do That Are OBI			25.	.0	(A/B)
250 CON MICHAEL W. 1989 CO. 100 CONTROL OF THE CONT	0	= Total Cov	er	VI MANUAL SANCES AND					(/05)
Sapling/Shrub Stratum (Plot size:)  1. Elaeagnus angustifolia	70	Y	FACU	Prevalence I			N. A. visita is	Three	
2. Rubus allegheniensis	40	Y	FACU	OBL species			Multiply =	0 0	-
3.		<del></del>	17.00	FACW species	0.	377		40	
4.				FAC species			=	0	20
5.	%	-		FACU specie	s11	5 x 4	=	460	_
5'	110	= Total Cov	er er	UPL species				0	
Herb Stratum (Plot size:)  Dichanthelium clandestinum	20	Y	FACW	Column Total	s:13	5 (A)		500	_ (B)
2. Cirsium arvense	5	- 'Y	FACU	Prevale	nce Index	= B/A =	3.7	70	
3.	77	<u> </u>		Hydrophytic		S2000 12			*
4		· · · · · · · · · · · · · · · · · · ·	: <del></del>	1 - Rapid				ation	
5.				2 - Domi					
6				3 - Preva	lence Ind	ex is ≤3.0 <sup>1</sup>			
7	()			4 - Morpl	nological /	Adaptations s or on a se	1 (Provi	de supp	orting
8			,	Problema					n)
9		<del>-</del>	<u>10 12</u>	2		,,		,p	
10	25		<del>- 1</del>	<sup>1</sup> Indicators of	hydric so	il and wetla	nd hydr	ology m	iust
Woody Vine Stratum (Plot size:)		= Total Cov	er	be present, u	nless dist	urbed or pro	oblemat	tic.	
1	310			Hydrophytic					
2				Vegetation Present?		s	No X		
		= Total Cov	er	Fresentr	16		WO		
Remarks: (Include photo numbers here or on a separate s	heet.)								

			0. 00	the absence of in	andatoro.)
Depth Matrix (inches) Color (moist) %	Color (moist)	dox Features % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 5 10YR 4/4 10			LUC	Loam	Remarks
	- 8 8	- Maria			
5 - 10 10YR 4/6 10	0 /	—:: <del>:</del>		Clay loam	100
-					
-					
<u>-</u>	_			4 2	- 05
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u> </u>			· · · · · · · · · · · · · · · · · · ·	
<del>-</del>				<u> </u>	<u></u>
<sup>1</sup> Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, I	MS=Masked Sand G	rains.		=Pore Lining, M=Matrix.
Hydric Soil Indicators:				Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Gleyed Matrix (S4)		F	e Redox (A16)
Histic Epipedon (A2)	16	Redox (S5)		Dark Surface	N 7:
Black Histic (A3)		ed Matrix (S6)		6 5055	nese Masses (F12)
Hydrogen Sulfide (A4)	1.0	y Mucky Mineral (F1)	ģ.		w Dark Surface (TF12)
Stratified Layers (A5) 2 cm Muck (A10)		y Gleyed Matrix (F2) ted Matrix (F3)		U Other (Expi	ain in Remarks)
Depleted Below Dark Surface (A11	750 ESS - ES	Dark Surface (F6)			
Thick Dark Surface (A12)		ted Dark Surface (F7	)	3Indicators of h	ydrophytic vegetation and
Sandy Mucky Mineral (S1)	0.00	Depressions (F8)	.e.s		rology must be present,
5 cm Mucky Peat or Peat (S3)				unless distu	rbed or problematic.
Restrictive Layer (if observed): No	)				
Type:	<u> </u>			Undela Call Base	X
Depth (inches):				Hydric Soil Pres	ent? Yes No _X
Remarks:	D.				
HYDROLOGY					
HYDROLOGY Wetland Hydrology Indicators:					
	equired; check all that	apply)		Secondary In	dicators (minimum of two required)
Wetland Hydrology Indicators:	C. Sousement roses	apply) tained Leaves (B9)			dicators (minimum of two required) Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re	Water-S			Surface 8	NA LIGHTON AND THE PROPERTY.
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research)  Surface Water (A1)	Water-S Aquatic	tained Leaves (B9)		Surface S	Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research Surface Water (A1)  High Water Table (A2)	Water-S Aquatic True Aqu	tained Leaves (B9) Fauna (B13)		Surface S Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is response)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-S Aquatic True Aqu Hydroge	tained Leaves (B9) Fauna (B13) uatic Plants (B14)	ving Roots	Surface S Drainage Dry-Seas Crayfish	Goil Cracks (B6) Patterns (B10) son Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-S Aquatic True Aqu Hydroge Oxidized	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1)	•	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-S Aquatic True Aqu Hydroge Oxidized Presence	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Li	4)	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reserved.)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (C	4)	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Foil Cracks (B6) Patterns (B10) Fon Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) For Stressed Plants (D1)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Cron Reduction in Tille	4)	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mur	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7)	4)	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mur	tained Leaves (B9) Fauna (B13) uatic Plants (B14) In Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tille ock Surface (C7) In Well Data (D9)	4)	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is really 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 Imager  Sparsely Vegetated Concave Surface	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mur	tained Leaves (B9) Fauna (B13) uatic Plants (B14) in Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Cron Reduction in Tille ck Surface (C7) in Well Data (D9) ixplain in Remarks)	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research 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 Imager  Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present?  Yes	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of Other (E	tained Leaves (B9) Fauna (B13) Luatic Plants (B14) In Sulfide Odor (C1) I Rhizospheres on Life of Reduced Iron (Cron Reduction in Tille Ck Surface (C7) In Well Data (D9) In Xplain in Remarks)	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted G Geomorp	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of occ (B8) Other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches): inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of occ (B8) Other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches): inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of occ (B8) Other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches): inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of occ (B8) Other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches): inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is research of the second of the s	Water-S Aquatic Aquatic True Aqu Hydroge Oxidized Presenc Recent I Thin Mu y (B7) Gauge of occ (B8) Other (E	tained Leaves (B9) Fauna (B13) uatic Plants (B14) n Sulfide Odor (C1) I Rhizospheres on Live of Reduced Iron (Coron Reduction in Tilleck Surface (C7) or Well Data (D9) xplain in Remarks) inches): inches):	4) ed Soils (C6	Surface S Drainage Dry-Seas Crayfish (C3) Saturatio Stunted of Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Itral Test (D5)





West Soil Profile

WETLAND DETE	RMINAT	ON DAT	A FORM	<ul> <li>Midwest Reg</li> </ul>	ion			
Project/Site: AEP Hillsboro to Millbrook Park		City/County		Highland	Samp	ling Date:	09/20/2	2019
Applicant/Owner: AEP				State:	Samp	ling Point	Upland H	HM-010,01
		Section, To	wnship, Ra	nge: Ohio Surveys VIRG	INIA MILITARY	DISTRICT C	H93Highla	and Lot 421
				(concave, convex, n				
Slope (%): 15 Lat: 39.14672		Long:		-83.615	08 Datum	1:		WGS 8
Soil Map Unit Name: Hickory clay loam, 12 to 18 percent	slopes, sev	erely erode	ed	NWI cla	ssification:	N/A		
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrologys		Secretary and the secretary an	110 1700	"Normal Circumstand		SCR.	X N	lo
Are Vegetation, Soil, or Hydrology n				eeded, explain any a				
THE NEW YORK 1965 - 1971 (1975 - 1977 - 1975 ) 1975 (197			1800000				ootura	
SUMMARY OF FINDINGS – Attach site map		sampiin	g point i	ocations, transe	ects, imp	ortant i	eature	es, etc.
Hydrophytic Vegetation Present? Yes N		ls th	e Sampled	l Area				
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N		27535	in a Wetla			lo X		
Remarks:	0	With a Co.					-86	
Upland data point for both W-MJA-092019-03 & W-MJA-Field ID: U-MJA-092019-04	092019-04	. Data poin	t situated o	on north-facing slope	e, under trar	nsmissior	line.	
00000								
VEGETATION – Use scientific names of plants.			To Book to the					
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?		Dominance Test				
1				Number of Domina That Are OBL, FA			0	(A)
2	-8	i de la companya de l	<u> </u>	Total Number of D	ominant			
3	5.07	,	3 <del>0 0</del> 5	Species Across Al		0-	4	(B)
4		-	<del></del>	Percent of Domina	int Species			
5	0			That Are OBL, FA		:0	.00	(A/B)
Sapling/Shrub Stratum (Plot size: )		= Total Cov	er er	Prevalence Index	worksheet	:		
1. Elaeagnus angustifolia	75	Y	FACU	Total % Cove	r of:	Multip	oly by:	
2. Sassafras albidum	8	N	FACU	OBL species _	0	x 1 =	0	_
3. Rubus allegheniensis	35	Υ	FACU	FACW species _		x 2 =	0	
4		9 <del>5, 1</del> 9	3 <del></del>	FAC species	400	x 3 =		
5				FACU species _	_ =	x 4 =	512	
Herb Stratum (Plot size:5'	118	= Total Cov	er	UPL species		x 5 =	25 546	— (P)
1. Ageratina altissima	10	Υ	FACU	Column Totals:	130	(A)	340	(B)
2. Geum canadense	3	N	FAC	Prevalence I	ndex = B/A	=	1.01	_
3. Polystichum acrostichoides	5	Y	UPL	Hydrophytic Veg	etation Indi	cators:		
4		011	1 <u> </u>	1 - Rapid Test			etation	
5				2 - Dominance				
6				3 - Prevalence				- 2
7				4 - Morpholog data in Rei	icai Adaptat narks or on	a separat	vide sur e sheet	pporting )
8			4	Problematic H				
9	28	3 <del>1 </del>	2 <u>12 32</u>	.50				
10	18	= Total Cov	er	<sup>1</sup> Indicators of hydr be present, unless				must
Woody Vine Stratum (Plot size:)				be present, unless	distarbed 0	грговен	auc.	
1			_	Hydrophytic				
2		T. ( ) A	0 <del>0                                   </del>	Vegetation Present?	Yes	_ No_	Χ	
Remarks: (Include photo numbers here or on a separate s		= Total Cov	er	100 TO 10	nioseeres.	- So control		
Transition (motion priorio numbera fiere of off a separate s								

Profile Descri	iption: (Describe	to the depth ne				or confirn	n the absence of i	ndicators.)
Depth (inches)	Matrix	% C		ox Feature:	S Tune 1	Loc <sup>2</sup>	Touture	Damadka
(inches) 0 - 12	Color (moist) 10YR 5/4	100	olor (moist)	%	Type <sup>1</sup>	Loc	<u>Texture</u> Clay Loam	Remarks
0 12	101103/4			-V/si			Clay Loain	-15
-					·			
-								
-				1075			\$ \$ T	
				_	TI			
				_				12
				- 19			-	
		200 <u>1 - 1</u>		1012			8 <u>3</u> 38 32	
<sup>1</sup> Type: C=Cor	ncentration, D=Dep	letion, RM=Red	uced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil In	dicators:		_				Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol (/	A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Prai	irie Redox (A16)
Histic Epi	pedon (A2)		100	Redox (S5	200		Dark Surfa	
Black Hist	70 0.00		(1)	d Matrix (S	40		1 100	anese Masses (F12)
	Sulfide (A4)			Mucky Mir	The state of the s			ow Dark Surface (TF12)
_	Layers (A5)			Gleyed Ma			U Other (Exp	olain in Remarks)
2 cm Muc	k (A10) Below Dark Surfac	0 (011)	(5560 361	ed Matrix (f Dark Surfa				
	k Surface (A12)	e (ATT)		ed Dark Suna			3Indicators of I	hydrophytic vegetation and
TATISTA THE WINDS	icky Mineral (S1)		0000	Depression	and the same of th	la de la companya de		drology must be present,
	ky Peat or Peat (S:	3)						turbed or problematic.
	yer (if observed):	767						#D
Type:	Roots/cla	У					1950 St. 188	<b>V</b>
Depth (inch	nes): 12	2 in.					Hydric Soil Pre	esent? Yes No _X
Remarks:	102		×				<del>-</del>	
HYDROLOG	Υ							
Wetland Hydr	rology Indicators:							
	itors (minimum of o	ne is required: o	heck all that a	(ylga			Secondary I	ndicators (minimum of two required)
Surface W		V.	economic research	ined Leave	es (B9)		- A	Soil Cracks (B6)
	er Table (A2)		a Market Market	auna (B13)				e Patterns (B10)
Saturation				atic Plants	-			ason Water Table (C2)
Water Ma				Sulfide Od				Burrows (C8)
	Deposits (B2)			Rhizosphe		ina Roots		on Visible on Aerial Imagery (C9)
Drift Depo				of Reduce		7.	G 15	or Stressed Plants (D1)
Algal Mat	or Crust (B4)		Company of the control of	on Reduction				rphic Position (D2)
Iron Depo			Thin Muc	k Surface (	(C7)		170 m	eutral Test (D5)
Inundation	n Visible on Aerial I	magery (B7)	Gauge or	Well Data	(D9)			
Sparsely \	Vegetated Concave	Surface (B8)	Other (Ex	plain in Re	emarks)			
Field Observa	ations:		**************************************	***************************************	P 10000000 0000#1			
Surface Water	Present? Y	es No _	X Depth (ir	nches):				
Water Table P		es No _						
Saturation Pre		es No					and Hydrology Pr	resent? Yes No _X
(includes capil	lary fringe)	AS EA DE	12 6 93	C/CS			/50 550	
Describe Reco	orded Data (stream	gauge, monitor	ing well, aerial	photos, pr	evious ins	pections),	if available:	
Damada								
Remarks:								

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South Soil Profile

## WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: AEP Hillsboro to Millbrook Park	c	City/Co	ounty:		Highland	Sampling Date:	09/23/2019
Applicant/Owner: AEP					State: OH		
Investigator(s): SAH, RW	{	Section	n, Tov	vnship, Rar	nge: Ohio Surveys VIRGINIA MI	ILITARY DISTRICT O	H93Highland Lot 2769
					(concave, convex, none):		
					-83.57035		WGS 84
Soil Map Unit Name: Opequon stony silt loam, 18 to 35 pe							
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation _ ✓, Soil _ ✓, or Hydrologys							X No
Are Vegetation, Soil, or Hydrology n					eded, explain any answer		
SUMMARY OF FINDINGS – Attach site map						,	eatures, etc.
Hydrophytic Vegetation Present? Yes N	oX_						
Hydric Soil Present? Yes N		- 1		e Sampled		.,	
Wetland Hydrology Present? Yes N	o <u>X</u>		withi	n a Wetlan	d? Yes	NoX	_
Remarks:	4 - 4!						
Plot located in active pasture. Soils compacted and vege Field ID: U-SAH-092319-01	tation graze	ed.					
VEGETATION – Use scientific names of plants.							
T Status (Distains 30'	Absolute			Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:) 1)	% Cover			Status	Number of Dominant Sp That Are OBL, FACW, o		0 (A)
2					Total Number of Domina		2
3					Species Across All Strat	ta:	2 (B)
4 5			_		Percent of Dominant Sp That Are OBL, FACW, o		.00 (A/B)
451	0	= Tota	I Cov	er		DI FAO	(A/B)
Sapling/Shrub Stratum (Plot size:)					Prevalence Index work		
1					Total % Cover of:  OBL species 0		oly by: 0
2					OBL species	^ ' '	0
3					FACW species 0  FAC species 0	^2	0
4 5.	. —				FACU species 40	^	160
	0 :	= Tota	L Cov	 er	UPL species 60		300
Herb Stratum (Plot size:)		Tota			Column Totals: 100		460 (B)
1. Poa sp.	60	Y		UPL			4.6
2. Trifolium repens		Y		FACU_	Prevalence Index		4.0
3					Hydrophytic Vegetatio 1 - Rapid Test for H		otation
4					2 - Dominance Test		station
5					3 - Prevalence Inde		
6					4 - Morphological A		vide supporting
7					data in Remarks	or on a separat	te sheet)
9					Problematic Hydrop	hytic Vegetation	າ <sup>1</sup> (Explain)
10.					4		
Woody Vine Stratum (Plot size:)		= Tota	l Cov	er	<sup>1</sup> Indicators of hydric soil be present, unless distu		
1					Hydrophytic		
2					Vegetation Present? Yes	s No_	Χ
		= Tota	l Cov	er	riesentr fes	, NO_	
Remarks: (Include photo numbers here or on a separate s	sheet.)						
Unidentified grass.							

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Depth   Matrix   Redox Features   Color (moist) % Color (moist) % Type¹ Loc² Texture   Features   Color (moist) % Type¹ Loc²   Texture   Features   Color (moist) % Type¹ Loc²   Texture   Features   Color (moist) % Type¹ Loc²   Texture   Features   Color (moist) % Type¹ Loc²   Texture   Features   Color (moist) % Type¹ Loc²   Texture   Features   Color (moist) % Type¹ Loc²   Texture	
(inches) Color (moist) % Color (moist) % Type Loc² Texture	
	Remarks
0 - 12 10YR 4/3 100 Fine sandy loam	
<u> </u>	
-	
<del></del>	
<u> </u>	
<u>-</u>	
-	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2Location: PL=Pore Linin	ng M=Matrix
Hydric Soil Indicators: Indicators	
Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A	-
Histic Epipedon (A2)  Sandy Redox (S5)  Dark Surface (S7)	(10)
Black Histic (A3)  Stripped Matrix (S6)  Iron-Manganese Mass	ses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Sur	
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Under (Explain in Remains	arks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)	
Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Indicators of hydrophytic value of the control of the con	-
Sandy Mucky Mineral (S1)	
5 cm Mucky Peat or Peat (S3) unless disturbed or pro	oblematic.
Restrictive Layer (if observed): No	
Type: Hydric Soil Present? Ye	es No _X
Depth (inches):	
Remarks:	
HYDROLOGY	
HYDROLOGY  Wetland Hydrology Indicators:	
	ninimum of two required)
Wetland Hydrology Indicators:	•
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)  Surface Soil Cracks	(B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Secondary Indicators (m	s (B6) B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Secondary Indicators (magnetic plants)  Secondary Indicators (magnetic plants)  Surface Soil Cracks  Drainage Patterns (Indicators)  Dry-Season Water Plants (B14)	(B6) B10) Table (C2)
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)  Water Marks (B1)  Secondary Indicators (m  Secondary Indicators (m  Secondary Indicators (m  Surface Soil Cracks  Aquatic Fauna (B13)  Drainage Patterns (I  Dry-Season Water I  Hydrogen Sulfide Odor (C1)  Crayfish Burrows (C)	(B6) B10) Table (C2)
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)  Secondary Indicators (minimum of one is required; check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Drainage Patterns (In Dry-Season Water In Dry	(B6) B10) Table (C2) C8) n Aerial Imagery (C9)
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)  Secondary Indicators (minimum of one is required; check all that apply)  Water Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Dry-Season Water Mydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drainage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drainage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drainage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drianage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drianage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drianage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Drianage Patterns (In Dry-Season Water of Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)  Surface Valle (Indicators (minimum of one is required; check all that apply)	(B6) B10) Table (C2) C8) In Aerial Imagery (C9)
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)  Water Marks (B1)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Water Marks (B1)  Dry-Season Water (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Aquatic Fauna (B13)  Drianage Patterns (C1)  Crayfish Burrows (C2)  Saturation Visible on Strusted or Stressed and Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Interior Marks (B5)  Wetland Hydrology Indicators:  Water Apply  Water Apply  Water Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Dry-Season Water Deposits (B14)  Dry-Season Water Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Stressed Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Secondary Indicators (mode)	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Secondary Indicators (minimum of one is required; check all that apply)  Aquatic Fained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water of C1  Crayfish Burrows (C1)  Saturation Visible on Secondary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water of C1  Crayfish Burrows (C2)  Saturation Visible on Secondary Indicators (minimum of one is required; check all that apply)  Drainage Patterns (Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water of C1  Crayfish Burrows (C2)  Saturation Visible on Secondary Indicators (minimum of check all that apply)  Drift Deposits (B2)  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water of C1  Crayfish Burrows (C2)  Saturation Visible on Secondary Indicators (minimum of check all that apply)	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Secondary Indicators (machine in the policy)  Surface Soil Cracks  Aquatic Fauna (B13)  Drainage Patterns (B14)  Dry-Season Water in the policy i	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Secondary Indicators (magnetic period)  Water All that apply)  Secondary Indicators (magnetic period)  Secondary Indicators (magnetic period)  Secondary Indicators (magnetic period)  Surface Soil Cracks  Aquatic Fauna (B13)  Drianage Patterns (C1)  Driy-Season Water of provided Provided Patterns (C1)  Crayfish Burrows (C1)  Saturation Visible on Stressed of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inon Deposits (B5)  Surface (B7)  Sediment Page (B8)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Depth (inches):  Surface Water Present?  Secondary Indicators (m  Surface Soil Cracks  Aquatic Fauna (B13)  Drift Deposit (B14)  Dry-Season Water Table (C1)  Crayfish Burrows (C2)  Saturation Visible or Stressed Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  FAC-Neutral Test (C1)  Gauge or Well Data (D9)  Other (Explain in Remarks)	(B6) B10) Table (C2) C8) n Aerial Imagery (C9) I Plants (D1) n (D2)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Table (Pants (B1))  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Secondary Indicators (mantal Explosion (Ca))  Surface Soil Cracks  Aquatic Fauna (B13)  Drainage Patterns (Inundation (C1))  Crayfish Burrows (C1)  Crayfish Burrows (C2)  Saturation Visible on Stressed (C3)  FAC-Neutral Test (C1)  Geomorphic Position  FAC-Neutral Test (C1)  FAC-Neutral Test (C1)  Factory  Facto	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
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)  Drift Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  X  Depth (inches):  Saturation Leaves (B9)  Aquatic Fauna (B13)  Drainage Patterns (Inches):  Crayfish Burrows (C1)  Saturation Visible on Stunted or Stressed (C3)  Saturation Visible on Stunted or Stressed (C6)  Geomorphic Position  FAC-Neutral Test (C1)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Saturation Present?  Yes  No  Wetland Hydrology Present?  Yes	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water Table (Pants (B1))  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Secondary Indicators (mantal Explosion (Ca))  Surface Soil Cracks  Aquatic Fauna (B13)  Drainage Patterns (Inundation (C1))  Crayfish Burrows (C1)  Crayfish Burrows (C2)  Saturation Visible on Stressed (C3)  FAC-Neutral Test (C1)  Geomorphic Position  FAC-Neutral Test (C1)  FAC-Neutral Test (C1)  Factory  Facto	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Marks (B1)  Secondary Indicators (m  Water Algal that apply)  Secondary Indicators (m  Secondary Indicators (m  Secondary Indicators (m  Secondary Indicators (m  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water 1  Crayfish Burrows (C  Saturation Visible of C3)  Saturation Visible of Stressed and Stressed are considered in Tilled Soils (C6)  Geomorphic Position  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No X  Depth (inches):  Saturation Present?  Yes No X  Depth (inches):  Wetland Hydrology Present? Yes (includes capillary fringe)	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
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)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Marks (B1)  Secondary Indicators (m  Water Algal that apply)  Secondary Indicators (m  Secondary Indicators (m  Secondary Indicators (m  Secondary Indicators (m  Surface Soil Cracks  Aquatic Fauna (B13)  Dry-Season Water 1  Crayfish Burrows (C  Saturation Visible of C3)  Saturation Visible of Stressed and Stressed are considered in Tilled Soils (C6)  Geomorphic Position  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No X  Depth (inches):  Saturation Present?  Yes No X  Depth (inches):  Wetland Hydrology Present? Yes (includes capillary fringe)	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of one is required: check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (Interpretation (A3)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Activation Visible on Recent Iron Reduction in Tilled Soils (C6)       Stunted or Stressed Recent Iron Reduction in Tilled Soils (C6)         Inon Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (C1)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Water Table Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Saturation Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Cincludes capillary fringe)       Describe Recorded Data (str	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of one is required: check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (Interpretation (A3)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crayfish Burrows (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Activation Visible on Recent Iron Reduction in Tilled Soils (C6)       Stunted or Stressed Recent Iron Reduction in Tilled Soils (C6)         Inon Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (C1)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Water Table Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Saturation Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes         Cincludes capillary fringe)       Describe Recorded Data (str	(B6) B10) Table (C2) C8) In Aerial Imagery (C9) I Plants (D1) In (D2) D5)

US Army Corps of Engineers Midwest Region – Version 2.0



West

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

Project/Site: AEP Hillsboro to	Millbrook Park	City/	County: Highland	San	npling Date: 09/24/2019
Applicant/Owner: AEP		Oity/	Oddrity	State: OH S	Sampling Point: Upland HM-013
Investigator(s): SAH, RW		Soot	ion Township Pango: Oh		RY DISTRICT OH93Highland Lot 2769
Landform (hillslope, terrace, e	to \. Flat		elief (concave, convex, nor		
, ,	,		Eller (concave, convex, nor Long:		
Subregion (LRR or MLRA): L					
Soil Map Unit Name: Rossmo					•
Are climatic / hydrologic condi					
Are Vegetation, Soil				I Circumstances" prese	
Are Vegetation _, Soil _	_, or Hydrolog	y naturally problem	natic? (If needed, e	explain any answers in	Remarks.)
SUMMARY OF FINDIN	IGS – Attach s	ite map showing sai	mpling point location	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Pres	sent? Yes _	X No	Is the Sampled Area		V
Hydric Soil Present?		NoX	within a Wetland?	Yes	NoX
Wetland Hydrology Present?	Yes_	No X			
Remarks:					
Located in active agricultural	field.				
Field ID: U-SAH-092419-01					
HYDROLOGY					
Wetland Hydrology Indicat	ors:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum	of one is required	; check all that apply)		Surface Soil Crac	ks (B6)
Surface Water (A1)		True Aquatic Plants	(B14)		ed Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide O		Drainage Patterns	
Saturation (A3)			res on Living Roots (C3)	Moss Trim Lines (	
Water Marks (B1)		Presence of Reduce		Dry-Season Wate	
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burrows	
Drift Deposits (B3)		Thin Muck Surface (	, ,		on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	emarks)	Stunted or Stress	ed Plants (D1)
Iron Deposits (B5)			,	Geomorphic Posit	
Inundation Visible on Ae	erial Imagery (B7)			Shallow Aquitard	
Water-Stained Leaves (	B9)			Microtopographic	
Aquatic Fauna (B13)	,			FAC-Neutral Test	, ,
Field Observations:					
Surface Water Present?	Yes No	X Depth (inches):			
Water Table Present?		X Depth (inches):			
Saturation Present?	· · · · · · · · · · · · · · · · · · ·	X Depth (inches):		Hydrology Present?	Yes NoX
(includes capillary fringe)	165 110	Deptil (illules)	wetland r	Tydrology Fresent:	165 NO
Describe Recorded Data (str	ream gauge, monito	oring well, aerial photos, pr	evious inspections), if ava	ilable:	
Remarks:				-	

Sampling Point:	Upland	HM-013
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	201	Absolute	Dominant I		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2					TALLY ASSESSED.
3					Total Number of Dominant Species Across All Strata:  1 (B)
4					Percent of Dominant Species
5 6					That Are OBL, FACW, or FAC: 100.00 (A/B)
v			= Total Cove		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:_	0	OBL species0 x 1 =0
Sapling Stratum (Plot size:	15')				FACW species0 x 2 =0
1					FAC species 95 x 3 = 285
2					FACU species 0 x 4 = 0
3					
4					- X
5					Column Totals:100 (A)310 (B)
6					Prevalence Index = B/A = 3.10
		0 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:			_		X 2 - Dominance Test is >50%
					3 - Prevalence Index is ≤3.0 <sup>1</sup>
1					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		0 =	= Total Cove	r	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:	E1				Tree – Woody plants, excluding woody vines,
4. Catania munaila	,	00		FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
·				FAC	(1.5 only of larger in diameter at broadt height (BB11).
2. Toxicodendron radicans		5			Sapling – Woody plants, excluding woody vines,
<ol> <li>Symphyotrichhum ericoides</li> </ol>		5	<u>N</u>	UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					violaty vine — All woody vines, regardless of height.
		100 =	= Total Cove	r	
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size:					
1					
2					
3					
4					
5					Hydrophytic
		0 :	= Total Cove	r	Vegetation
	50% of total cover: 0	20% of	total cover	0	Present? Yes X No
Remarks: (Include photo number					1
. temante. (moidae prioto nambi	or on a separate s				

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the in	dicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redox	Features	1						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remark	S	
0 <b>—</b> 12	10YR 5/3	90	10YR 4/6	10	С	М	Loam				
_											
_											
								-			
_											
								-			
							-				
	ncentration, D=Deple	etion, RM=R	educed Matrix, MS	=Masked S	Sand Gra	ains.	<sup>2</sup> Location: Pl				3
Hydric Soil I			_					tors for Pro		-	s":
Histosol			Dark Surface					cm Muck (A			
	ipedon (A2)		Polyvalue Bel				<b>148)</b>	oast Prairie	•	6)	ļ
Black His			Thin Dark Sur	. , ,	•	47, 148)		(MLRA 147			
	n Sulfide (A4)		Loamy Gleye		2)		L Pi	edmont Floo		ls (F19)	
	Layers (A5)		☐ Depleted Mat					(MLRA 136			
	ck (A10) (LRR N)	(0.4.4)	Redox Dark S	,	,			ery Shallow			
	Below Dark Surface	(A11)	Depleted Darl				ЦΟ	ther (Explair	n in Remari	(S)	
	rk Surface (A12)	DD N	Redox Depres			DD N					
-	ucky Mineral (S1) <b>(L</b> . <b>147, 148)</b>	KK N,	☐ Iron-Mangane		s (F IZ) <b>(</b>	LKK N,					
	leyed Matrix (S4)		Umbric Surface	•	II DA 12	6 122)	3Indi	cators of hy	drophyticy	ogotation a	nd
	edox (S5)		Piedmont Flor					tland hydrol			iiu
_	Matrix (S6)		Red Parent M					ess disturbe			
	ayer (if observed):	Na	red raichtiv	atchai (i Z	1) (IVILIX	A 121, 141	T uiii	coo diotarbe	d or proble	matio.	
Type:			<del></del>								~
	hes):		<u> </u>				Hydric Soil	Present?	Yes	No	<u>^</u>
Remarks:											

Soil Photos:

Upland HM-013





Soil profile West

Project/Site: AEP Hillsboro to	Millbrook Park	City/0	County: Highland	Samn	ling Date: 09/25/2019
Applicant/Owner: AEP		Oily/C	bounty.	State: OH Sar	mpling Point: Upland HM-014
Investigator(s): SAH, RW		Sacti	on Township Range Oh	io Surveys VIRGINIA MILITARY	DISTRICT OH93Highland Lot 2739
Landform (hillslope, terrace, et	to ). Hillside	Local ro	liof (concave, convey, nor	20). Convex	Slope (%): 1
Subregion (LRR or MLRA): <u>LF</u>	.c.). <u>e.ae</u>	Local Te	L ong.	_83 5/211	Slope (%)
Soil Map Unit Name: Boston-E					
Are climatic / hydrologic condit					
Are Vegetation, Soil	, or Hydrology	/significantly distu	rbed? Are "Normal		
Are Vegetation , Soil .	_, or Hydrology	naturally problem	atic? (If needed, e	explain any answers in R	emarks.)
SUMMARY OF FINDIN	GS – Attach si	te map showing sar	npling point location	ons, transects, imp	ortant features, etc.
Hydrophytic Vegetation Pres	ent? Yes	No X	Is the Sampled Area		
Hydric Soil Present?	Yes	No X No X	Is the Sampled Area within a Wetland?	Yes No	X
Wetland Hydrology Present?	Yes	No X			
Remarks:					
Mowed grass.					
movod grace.					
Field ID: U-SAH-092519-01					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum		check all that apply)		Surface Soil Cracks	
Surface Water (A1)		True Aquatic Plants	(B14)	一	Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Oc		Drainage Patterns (	
Saturation (A3)		<del>-</del> ' '	es on Living Roots (C3)	Moss Trim Lines (B	
Water Marks (B1)		Presence of Reduce	-	Dry-Season Water	
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burrows (C	
Drift Deposits (B3)		Thin Muck Surface (			n Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re		Stunted or Stressed	
Iron Deposits (B5)			•	Geomorphic Position	
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitard (D	
Water-Stained Leaves (E				Microtopographic R	
Aquatic Fauna (B13)	,			FAC-Neutral Test (I	
Field Observations:					,
Surface Water Present?	Yes No	X Depth (inches):			
Water Table Present?		X Depth (inches):			
Saturation Present?		X Depth (inches):		lydrology Present? Y	es No X
(includes capillary fringe)		•			L3 NO
Describe Recorded Data (str	eam gauge, monito	ring well, aerial photos, pre	evious inspections), if ava	ilable:	
Remarks:					

Sampling	Point:	Upland	HM-014

		Absolute	Dominant Ir	ndicator	Dominance Test worksheet:	
Tree Stratum (Plot size:1			Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2. 3.					Total Number of Dominant Species Across All Strata: 1	(B)
4 5					Percent of Dominant Species	. ,
6					That Are OBL, FACW, or FAC:	(A/B)
<u> </u>			= Total Cove		Prevalence Index worksheet:	
	50% of total cover:0				Total % Cover of: Multiply by:	
Sanling Stratum (Dlot ciza)		20% 01	total cover		OBL species 0 x 1 = 0	
Sapling Stratum (Plot size:					FACW species0	
					FAC species 5 x 3 = 15	_
2					FACU species 10 x 4 = 40	
3					UPL species <u>85</u> x 5 = <u>425</u>	_
4					Column Totals:100(A)480	_ (B)
5					Prevalence Index = B/A = 4.80	
		0	= Total Cove	•	Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:					2 - Dominance Test is >50%	
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>	
					4 - Morphological Adaptations <sup>1</sup> (Provide sup	porting
2					data in Remarks or on a separate sheet)	. 3
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	in)
4						
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology r	must
6					be present, unless disturbed or problematic.	
			= Total Cover		Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	)				approximately 20 ft (6 m) or more in height and 3	3 in.
Cirsium vulgare		10		FACU	(7.6 cm) or larger in diameter at breast height (D	BH).
2. Poa sp.		85	<u>Y</u>	UPL	Sapling – Woody plants, excluding woody vines	
3. Toxicodendron radicans		5	<u>N</u>	FAC	approximately 20 ft (6 m) or more in height and lethan 3 in. (7.6 cm) DBH.	ess
4						
5					<b>Shrub</b> – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
7					Herb – All herbaceous (non-woody) plants, inclu	ıdina
8.					herbaceous vines, regardless of size, and woody	у
9.					plants, except woody vines, less than approxima ft (1 m) in height.	itely 3
10						
11					Woody vine – All woody vines, regardless of he	ight.
		100	= Total Cove	-		
	E00/ of total cover: 50					
Woody Vine Stratum (Plot size	50% of total cover: 50	20% 01	total cover	20		
1						
2						
3						
4						
5					Hydrophytic	
		0	= Total Cover	r	Vegetation	
	50% of total cover: 0	20% of	total cover:	0	Present? Yes NoX	
Remarks: (Include photo numb	ers here or on a separate s	heet.)				
		Unid	entified grass	3		

**SOIL** 

Profile Desci	iption: (Describe t	o the depth	needed to docur	nent the indic	cator or co	onfirm	the absence	of indicator	rs.)		
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	<u> % T</u>	ype <sup>1</sup> Lo	oc <sup>2</sup>	Texture		Remark	S	
0 — 12	10YR 4/4	100	1				Loam				
_											
			_								
			_								
_											
-											
			_								
_											
							2 .				
	ncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked Sa	nd Grains.		<sup>2</sup> Location: PL				3
Hydric Soil II				(==)				tors for Pro		•	iis :
Histosol			Dark Surface		CO) /=== = =			cm Muck (A			
	ipedon (A2)			low Surface (				oast Prairie		b)	
Black His				rface (S9) (M	LKA 147, '	148)		(MLRA 147		lo (F10)	
	n Sulfide (A4) Layers (A5)		<ul><li>Loamy Gleye</li><li>Depleted Ma</li></ul>				LI PI	edmont Flo	•	IS (F 19)	
	ck (A10) <b>(LRR N)</b>		Redox Dark					(MLRA 136 ery Shallow		co (TE12)	
	Below Dark Surface	(Δ11)		k Surface (F7	')			her (Explaii			
_	rk Surface (A12)	(/(11)	Redox Depre		,			inci (Explaii	T III TCITIGIT	(3)	
	ucky Mineral (S1) <b>(L</b> l	RR N.		ese Masses (I	F12) <b>(LRR</b>	N.					
	147, 148)	<b>,</b>	MLRA 13		· -, <b>(</b>	,					
	eyed Matrix (S4)			ce (F13) <b>(ML</b> I	RA 136, 12	22)	<sup>3</sup> Indi	cators of hy	drophytic v	egetation a	and
	edox (S5)			odplain Soils				land hydrol			
	Matrix (S6)			Material (F21)				ess disturbe			
	ayer (if observed):	No									
Type:											
• •	hes):		_				Hydric Soil	Present?	Yes	No	Х
Remarks:			_								
Kemarks.											





Project/Site: AEP Hillsboro to	Millbrook Park	City/0	County: Highland	Samp	ling Date: 09/25/2019
Applicant/Owner: AEP		City/	Sounty	State: OH Sar	mpling Point: Upland HM-015
Investigator(s): SAH, RW		Soot	ion Township Banga: Ot	State Sai	DISTRICT OH93Highland Lot 2739
Landform (hillslope, terrace, e	Hillside				
				-83.54146	
Subregion (LRR or MLRA): <u>L</u> Soil Map Unit Name: Boston-				NWI classification:	
				<del></del>	
Are climatic / hydrologic condi					
Are Vegetation, Soil				I Circumstances" present	
Are Vegetation _, Soil _	_, or Hydrolog	y naturally problem	natic? (If needed, e	explain any answers in Re	emarks.)
SUMMARY OF FINDIN	IGS – Attach s	ite map showing sar	mpling point location	ons, transects, imp	ortant features, etc.
Hydrophytic Vegetation Pres	sent? Yes	X No	Is the Sampled Area		
Hydric Soil Present?		No X	within a Wetland?	Yes No	o
Wetland Hydrology Present?	Yes _	No X		<u></u>	
Remarks:					
Located in active agricultural	field				
Field ID: H-SAH-092519-02					
HYDROLOGY				-	
Wetland Hydrology Indica	tors:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum		; check all that apply)		Surface Soil Cracks	<del>-</del>
Surface Water (A1)		True Aquatic Plants	(B14)		Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (	
Saturation (A3)			res on Living Roots (C3)	Moss Trim Lines (B	
Water Marks (B1)		Presence of Reduce		Dry-Season Water	
Sediment Deposits (B2)	1		on in Tilled Soils (C6)	Crayfish Burrows (C	
Drift Deposits (B3)		Thin Muck Surface (	` ,		n Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	,	Stunted or Stressed	=
Iron Deposits (B5)		Out of (Explain in 140	markoj	Geomorphic Positio	
Inundation Visible on A	erial Imagery (B7)			Shallow Aquitard (D	, ,
Water-Stained Leaves (	,			Microtopographic Re	
Aquatic Fauna (B13)	20)			FAC-Neutral Test (	
Field Observations:					
Surface Water Present?	Voc. No.	X Depth (inches):			
Water Table Present?		X Depth (inches):			Y
Saturation Present? (includes capillary fringe)	Yes No	X Depth (inches):	Wetland F	Hydrology Present? You	es NoX
Describe Recorded Data (st	ream gauge, monit	oring well, aerial photos, pr	evious inspections), if ava	ailable:	
Remarks:					

EGETATION (Five Stra	ta) – Use scientific na	ames of <sub>l</sub>	plants.		Sampling Point: Upland HM-015
	0.01	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2 3					Total Number of Dominant Species Across All Strata:  1 (B)
					Percent of Dominant Species
6					(742)
		0	= Total Cove	er	Prevalence Index worksheet:
	50% of total cover:0	20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:		2070 01			OBL species0 x 1 =0
	,				FACW species0 x 2 =0
2					FAC species 95 x 3 = 285
3					FACU species5 x 4 =20
					UPL species0 x 5 =0
					Column Totals:100 (A)305 (B)
5 6.					Prevalence Index = B/A = 3.05
0			= Total Cove	or .	Hydrophytic Vegetation Indicators:
		<u> </u>			1 - Rapid Test for Hydrophytic Vegetation
	50% of total cover: 0	20% of	total cover:	0	X 2 - Dominance Test is >50%
Shrub Stratum (Plot size:					3 - Prevalence Index is ≤3.0¹
1 2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					1
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:	F1		-		<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
. 0	/	90	Υ	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
Digitaria sanguinalis		5	N	FACU	Senting Weeds plants evaluding weeds since
3. Echinochloa crus-galli		5	N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
					ft (1 m) in height.
10 11					Woody vine - All woody vines, regardless of height.
11.			= Total Cove		
Woody Vine Stratum (Plot size	50% of total cover: 50 e: 30' )	20% of	total cover:	20	
1					
3					
5.		-			
		0	= Total Cove	er	Hydrophytic Vegetation
	50% of total cover:0	<u> </u>			Present? Yes X No
Domonico, /Include of the			iolal cover:		
Remarks: (Include photo num	bers here or on a separate s	nieet.)			

epth	Matrix		Redox Features	<del></del>	
nches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc		e Remarks
<u> </u>	10YR 5/4	100		Loam	
<del>-</del> 12	10YR 4/3	100		Loam	
_					
_		·			
		· <del></del>			
		· —— -			
_					
_					
_		· <del></del> -			
		letion, RM=F	leduced Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Matrix.
Iric Soil I	ndicators:		_	In	dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) <b>(MLRA 147)</b>
	ipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie Redox (A16)
Black His			Thin Dark Surface (S9) (MLRA 147, 14	<sup>18)</sup>	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	<u>L</u>	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6)		(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	<u> </u>	Other (Explain in Remarks)
	rk Surface (A12)	5 (7111)	Redox Depressions (F8)		Caron (Explain in Homaine)
	ucky Mineral (S1) <b>(L</b>	RR N,	Iron-Manganese Masses (F12) (LRR N	I,	
-	147, 148)		MLRA 136)		
Sandy G	leyed Matrix (S4)		☐ Umbric Surface (F13) (MLRA 136, 122	?) <sup>3</sup>	<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MLR		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 127	, 147)	unless disturbed or problematic.
strictive L	ayer (if observed):	No			
Туре:			<u> </u>		
Depth (inc	hes):		<u> </u>	Hydric S	Soil Present? Yes No X
marks:				l.	





soil profile view: southeast

Project/Site: AEP Hillsboro to	fillsboro to Millbrook Park City/County: Highland			Samplir	ng Date: 09/25/2019
Applicant/Owner: AEP				State: OH Samp	nling Point. Upland HM-016
Investigator(s): SAH, RW		Section	on Townshin Range Ohi	io Surveys VIRGINIA MILITARY DI	ISTRICT OH93Highland Lot 2739
Landform (hillslope, terrace, e	tc ). Pothole	Local reli	ef (concave, convey, nor	ne). Concave	Slone (%): 2
Subregion (LRR or MLRA): L					
Soil Map Unit Name: Jessup					
Are climatic / hydrologic condi					
• •	• •	•		-	
Are Vegetation, Soil _				Circumstances" present?	
Are Vegetation , Soil .	_, or Hydrology _	_ naturally problema	atic? (If needed, e	explain any answers in Rer	marks.)
SUMMARY OF FINDIN	IGS – Attach site r	map showing sam	npling point locatio	ns, transects, impo	rtant features, etc.
Hydrophytic Vegetation Pres	cont? Voc	NoX			
Hydric Soil Present?	Yes	No X	Is the Sampled Area within a Wetland?	Yes No	Χ
Wetland Hydrology Present?	) Vas	NoX	within a wettand:	103100	
Remarks:	103				
rtomants.					
Field ID: U-SAH-092519-03					
HYDROLOGY					
Wetland Hydrology Indicat	ors:			Secondary Indicators (mir	nimum of two required)
Primary Indicators (minimum	of one is required; che	ck all that apply)		Surface Soil Cracks (	B6)
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Vegetated C	Concave Surface (B8)
High Water Table (A2)	<u></u>	Hydrogen Sulfide Ode		Drainage Patterns (B	
Saturation (A3)	<u> </u>	-	es on Living Roots (C3)	Moss Trim Lines (B16	
Water Marks (B1)	<u> </u>	Presence of Reduced	l Iron (C4)	Dry-Season Water Ta	able (C2)
Sediment Deposits (B2)	<u> </u>	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8	3)
Drift Deposits (B3)	<u> </u>	Thin Muck Surface (C	27)	Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crust (B4)	<u>L</u>	Other (Explain in Ren	narks)	Stunted or Stressed F	Plants (D1)
Iron Deposits (B5)				Geomorphic Position	(D2)
Inundation Visible on Ae	erial Imagery (B7)			Shallow Aquitard (D3)	
Water-Stained Leaves (	B9)			Microtopographic Rel	
Aquatic Fauna (B13)				FAC-Neutral Test (D5	5)
Field Observations:					
Surface Water Present?	Yes No _X_	_ Depth (inches):			
Water Table Present?	Yes No _X	Depth (inches):			
Saturation Present?	Yes No _X	Depth (inches):	Wetland H	lydrology Present? Yes	s NoX
(includes capillary fringe)  Describe Recorded Data (str	room gougo, monitoring	well periol photos pro	vious inspections) if ava	ilabla	
Describe Recorded Data (Sti	eam gauge, monitoring	well, aeriai priotos, pre	vious irispections), ii ava	liable.	
Remarks:					
T C C C C C C C C C C C C C C C C C C C					

Sampling	Point:	Upland	HM-016
Samunina	POIIII	Opiana	

	0.01	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:			Species?		Number of Dominant Species That Are ORL FACW or FAC:  0 (A)
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 3 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 0.00 (A/B)
6					Prevalence Index worksheet:
	_		= Total Cove		Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	15'				FACW species 0 x 2 = 0
					FAC species0 x 3 =0
2					FACU species100 x 4 =400
3					UPL species 0 x 5 = 0
4					Column Totals:(A)(B)
5					4.00
6					Prevalence Index = B/A = 4.00
		0	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1. Elaeagnus angustifolia			<u>Y</u>	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
-			Y	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Rosa multiflora		15	N	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					1 Toblematic Hydrophytic Vegetation (Explain)
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		95	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover: 48	20% of	total cover:	19	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5' )				approximately 20 ft (6 m) or more in height and 3 in.
Phytolacca americana		5	<u>Y</u>	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2					Sapling – Woody plants, excluding woody vines,
3					approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					woody vine - All woody vines, regardless of neight.
		5	= Total Cove	er	
	50% of total cover: 3	20% of	total cover:	1	
Woody Vine Stratum (Plot size:	30' )				
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cove	er	Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes NoX
Remarks: (Include photo numb	·				1
·	·				

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the ir	ndicator o	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Features	1				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remark	S
0 — 12	10YR 5/3	95	10YR 4/6	5	C	M	Loam		
_									
_									
_									
<sup>1</sup> Typoy C Co	ncentration, D=Depl	otion DM D	aduced Matrix MS	- Mackad	Cond Cro	inc	<sup>2</sup> Location, DI	Doro Lining M. Matri	iv.
Hydric Soil I		euon, Rivi=R	educed Matrix, MS	S=IVIaSKeu	Sanu Gra	11115.		_=Pore Lining, M=Matri Itors for Problematic	
•			Dank Confess	(C7)					-
Histosol	ipedon (A2)		<ul><li>□ Dark Surface</li><li>□ Polyvalue Be</li></ul>	. ,	o (CO) <b>(M</b>	II D A 147		cm Muck (A10) <b>(MLRA</b> oast Prairie Redox (A1	
	•						148) <u> </u>	(MLRA 147, 148)	0)
Black His			Thin Dark Su			47, 148)	П г		I- (E10)
	n Sulfide (A4)		Loamy Gleye		-2)		L PI	edmont Floodplain Soi	IS (F 19)
	Layers (A5)		Depleted Mar					(MLRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark	•	•			ery Shallow Dark Surfa	
	Below Dark Surface	(A11)	Depleted Dar				<u> </u>	ther (Explain in Remarl	ks)
	rk Surface (A12)		Redox Depre						
Sandy M	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan	ese Masse	s (F12) <b>(I</b>	_RR N,			
MLRA	147, 148)		MLRA 13	6)					
☐ Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (I	VILRA 13	6, 122)	<sup>3</sup> Indi	cators of hydrophytic v	egetation and
	edox (S5)		Piedmont Flo					tland hydrology must b	
	Matrix (S6)		Red Parent N					ess disturbed or proble	
	ayer (if observed):	No		ratoriai (i z	- · / <b>(· · · - · · ·</b>	,	1	occ dictal bod of proble	
Type:									
• .	haa).		<del>_</del>				Undria Cail	Dracout? Vac	No. Y
	hes):		_				Hydric Soil	Present? Yes	NoX_
Remarks:									





West

Project/Site: AEP Hillsboro to	Millbrook Park	City/C	ounty. Highland	Samplin	og Date: 09/25/2019
Applicant/Owner: AEP		Oligical		State: OH Samp	oling Point. Upland HM-017
Investigator(s): SAH, RW		Section	on Township Range Oh	io Surveys VIRGINIA MILITARY DIS	STRICT OH93Highland Lot 2739
Landform (hillslope, terrace, et		Local reli	ef (concave, convex, nor		Slone (%): 0
Subregion (LRR or MLRA): <u>LL</u>					
Soil Map Unit Name: Algiers s				NWI classification: N/	
Are climatic / hydrologic condit					
				-	
Are Vegetation ✓, Soil _				Circumstances" present?	
Are Vegetation , Soil .	_, or Hydrology	_ naturally problema	atic? (If needed, e	explain any answers in Rem	narks.)
SUMMARY OF FINDIN	GS - Attach site	e map showing san	npling point locatio	ons, transects, impor	rtant features, etc.
Lively and the Manager Duna		No. Y			
Hydrophytic Vegetation Pres	ent? Yes	No X	Is the Sampled Area within a Wetland?	Yes No _	Χ
Hydric Soil Present?	Yes	No X	within a wettand?	resNO_	
Wetland Hydrology Present? Remarks:	Yes	No <u>X</u>			
Located in hay field.					
E: 111D 11 CA11 002510 04					
Field ID: U-SAH-092519-04					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (min	imum of two required)
Primary Indicators (minimum	of one is required; ch	neck all that apply)		Surface Soil Cracks (E	36)
Surface Water (A1)	]	True Aquatic Plants (	B14)	Sparsely Vegetated C	oncave Surface (B8)
High Water Table (A2)	Ī	Hydrogen Sulfide Od	or (C1)	☐ Drainage Patterns (B1	10)
Saturation (A3)	[	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Lines (B16	5)
Water Marks (B1)	]	Presence of Reduced	I Iron (C4)	Dry-Season Water Ta	ble (C2)
Sediment Deposits (B2)	[	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8)	)
Drift Deposits (B3)	[	Thin Muck Surface (C	27)	Saturation Visible on A	Aerial Imagery (C9)
Algal Mat or Crust (B4)	[	Other (Explain in Rer	narks)	Stunted or Stressed P	Plants (D1)
Iron Deposits (B5)		·		Geomorphic Position	(D2)
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitard (D3)	)
Water-Stained Leaves (E	39)			Microtopographic Reli	uef (D4)
Aquatic Fauna (B13)	,			FAC-Neutral Test (D5	
Field Observations:				<u> </u>	-
Surface Water Present?	Yes No	C Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):		lydrology Present? Yes	No X
(includes capillary fringe)		•			
Describe Recorded Data (str	eam gauge, monitorir	ng well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

Sampling Point: Upland HM-017
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	0.01	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)	
2						
3					Total Number of Dominant Species Across All Strata:3 (B)	
4					Dorgant of Dominant Chapies	
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B	5)
6					Prevalence Index worksheet:	-
		0	= Total Cove	er	Total % Cover of: Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species x 1 = 0	
Sapling Stratum (Plot size:	15'				FACW species 0 x 2 = 0	
1					FAC species 20 x 3 = 60	
2					TAC Species X S =	
3						
4					UPL species 50 x 5 = 250	
5					Column Totals:(A)(B)	1
•					Prevalence Index = B/A = 4.30	
		0	= Total Cove	er	Hydrophytic Vegetation Indicators:	
	50% of total cover:0	20% of	total cover:_	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	15' )				2 - Dominance Test is >50%	
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2					4 - Morphological Adaptations <sup>1</sup> (Provide supportin	ıg
3					data in Remarks or on a separate sheet)	
					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4						
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
0			= Total Cove		be present, unless disturbed or problematic.	
					Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:					approximately 20 ft (6 m) or more in height and 3 in.	
Echinochloa crus-galli		20	<u>Y</u>	FAC	(7.6 cm) or larger in diameter at breast height (DBH).	
2. Agrostis perennans		50	Y	UPL	Sapling – Woody plants, excluding woody vines,	
3. Digitaria sanguinalis		30	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
4					tildir 3 iii. (7.0 ciii) DDII.	
5					Shrub – Woody plants, excluding woody vines,	
6					approximately 3 to 20 ft (1 to 6 m) in height.	
7					Herb – All herbaceous (non-woody) plants, including	
8					herbaceous vines, regardless of size, and woody	
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.	
10						
11					<b>Woody vine</b> – All woody vines, regardless of height.	
	_	100	= Total Cove	er		
	50% of total cover: 50	20% of	total cover:	20		
Woody Vine Stratum (Plot size		20 /6 01	total cover.	20		
1						
2						
3						
4						
5					Hydrophytic	
		0	= Total Cove	er	Vegetation	
	50% of total cover: 0	20% of	total cover:	0	Present? Yes NoX	
Remarks: (Include photo numb	ers here or on a separate s	heet.)			1	$\dashv$
·	·					

**SOIL** 

Profile Desci	iption: (Describe t	o the depth	needed to docur	nent the indica	ator or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> <u>Ty</u>	pe <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remar	ks
0 — 10	10YR 5/4	100	1			Loam		
			-					
_								
_								
								-
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Mat	trix.
Hydric Soil I							tors for Problematic	
Histosol	(A1)		■ Dark Surface	(S7)		□ 2	cm Muck (A10) (MLR	A 147)
_	ipedon (A2)				8) <b>(MLRA 147</b> ,		oast Prairie Redox (A	
☐ Black His				rface (S9) (ML		- <u> </u>	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye			☐ Pi	edmont Floodplain So	oils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F6)		□ Ve	ery Shallow Dark Surf	face (TF12)
Depleted	Below Dark Surface	(A11)	Depleted Dai	k Surface (F7)		<u> </u>	ther (Explain in Rema	arks)
Thick Da	rk Surface (A12)		Redox Depre	essions (F8)				
Sandy M	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan	ese Masses (F	12) <b>(LRR N,</b>			
	147, 148)		MLRA 13	6)				
	eyed Matrix (S4)			ce (F13) (MLR			cators of hydrophytic	
	edox (S5)				F19) <b>(MLRA 1</b> 4		tland hydrology must	
	Matrix (S6)		Red Parent N	/laterial (F21) <b>(</b> l	MLRA 127, 147	<b>7)</b> unl	ess disturbed or probl	lematic.
	ayer (if observed):	Yes						
Type: rock	refusal							
Depth (inc	hes): 10		<u></u>			Hydric Soil	Present? Yes	No <u>X</u>
Remarks:						1 -		
. tomanto.								





Project/Site: AEP Hillsboro to	Millbrook Park 128 kV	Citv/C	ounty: North Uniontown,	Highland County Sampling	g Date: 09/25/2019
Applicant/Owner: AEP				State: OH Sampl	
Investigator(s): SAH, RW		Section		o Surveys VIRGINIA MILITARY DIS	
Landform (hillslope, terrace, et		Local reli	ef (concave, convey, non	Convex	Slone (%): 4
Subregion (LRR or MLRA): <u>LF</u>	DD N Lat	· 39.10586	Long:	-83.52150	Slope (70)
Soil Map Unit Name: Hickory					
Are climatic / hydrologic condit					
• •	•	•		•	X N-
Are Vegetation, Soil				Circumstances" present?	
Are Vegetation , Soil .	_, or Hydrology _	_ naturally problema	itic? (If needed, e	xplain any answers in Rem	arks.)
SUMMARY OF FINDIN	GS – Attach site m	nap showing sam	pling point locatio	ns, transects, impor	tant features, etc.
					<u> </u>
Hydrophytic Vegetation Pres	ent? Yes	NoX	Is the Sampled Area		Y
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes No _	
Wetland Hydrology Present?	Yes	No <u>X</u>			
Remarks:					
Located in depression					
Field ID: U-SAH-092519-05					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (mini	mum of two required)
Primary Indicators (minimum		k all that apply)		Surface Soil Cracks (B	
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Vegetated Co	· ·
High Water Table (A2)	Ħ	Hydrogen Sulfide Odd		Drainage Patterns (B1)	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lines (B16)	
Water Marks (B1)		Presence of Reduced	•	Dry-Season Water Tab	
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burrows (C8)	
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation Visible on A	Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or Stressed PI	
Iron Deposits (B5)				Geomorphic Position (	D2)
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitard (D3)	
Water-Stained Leaves (E	39)			Microtopographic Relie	ef (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5)	)
Field Observations:					
Surface Water Present?	Yes No _X	Depth (inches):			
Water Table Present?	Yes No _X	Depth (inches):			
Saturation Present?		Depth (inches):		ydrology Present? Yes	No X
(includes capillary fringe)		vall assistantes and	vieve increations) if evel	lable.	
Describe Recorded Data (stre	eam gauge, monitoring v	weii, aeriai priotos, pre	vious inspections), ii avai	lable:	
Remarks:					

Sampling	Point:	Upland	HM-018
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	201	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:11	30')	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2	_						, ,
3.					Total Number of Dominant Species Across All Strata:	2	(B)
4					Percent of Dominant Species		
5					That Are OBL, FACW, or FAC: _	0.00	(A/B)
u			= Total Cove	or.	Prevalence Index worksheet:		
					Total % Cover of:	Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species0 x 1	= 0	
Sapling Stratum (Plot size:	15'				FACW species0 x 2	=0	
					FAC species 10 x 3	= 30	
2					FACU species 80 x 4		
3					UPL species 10 x 5		
4					Column Totals: 100 (A)	400	(B)
5	_				Column Totals (A)		_ (D)
6					Prevalence Index = B/A =		
			= Total Cove		Hydrophytic Vegetation Indicato		
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic	Vegetation	
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%		
1					3 - Prevalence Index is ≤3.0¹		
2					4 - Morphological Adaptations data in Remarks or on a se	(Provide supp	porting
3						•	,
4					Problematic Hydrophytic Vege	station (Explai	n)
5					1		
6					<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or pro	nd hydrology n Shlematic	nust
		_	= Total Cove	er	Definitions of Five Vegetation St		
	50% of total cover: 0	20% of	total cover:	0	Definitions of Five vegetation 3	.i ata.	
Herb Stratum (Plot size:	· · · · · · · · · · · · · · · · · · ·	2070 01	total cover.		Tree – Woody plants, excluding we		
Tridens flavus	)	40	V	FACU	approximately 20 ft (6 m) or more i (7.6 cm) or larger in diameter at br		
Ambrosia trifida		40	Y N	FAC	(7.6 sin) of larger in diameter at 51	oust noight (Di	51.17.
					Sapling – Woody plants, excluding	g woody vines,	
3. Symphyotrichum ericoides		40	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in than 3 in. (7.6 cm) DBH.	in neight and is	ess
4. Daucus carota		10	<u>N</u>	UPL			
5					Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)		
7					Herb – All herbaceous (non-woody	v) nlants inclu	dina
8.					herbaceous vines, regardless of si		
9.					plants, except woody vines, less th	nan approximat	tely 3
10					ft (1 m) in height.		
11.					Woody vine – All woody vines, reg	gardless of hei	ght.
		100	= Total Cove	or.			
	50% of total cover: 50	20% of	total cover:	20			
Woody Vine Stratum (Plot size:	)						
1							
2							
3							
4							
5	_				Hydrophytic		
		0 :	= Total Cove	er	Vegetation		
	50% of total cover: 0	20% of	total cover:	0	Present? Yes	NoX	
Remarks: (Include photo number			30.011				
	2. 2 1.0. 0 0. 0.7 d 30pardto 3	,					

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the ii	ndicator o	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Features	5				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0 - 2	10YR 5/4	100	/				Loam		
2 <b>—</b> 10	10YR 5/6	100	/				Loam		
_									
_									
								-	
_									
_			_						
1Type: C=Cc	ncentration, D=Depl	etion DM-E	Peduced Matrix M	——— S-Maskod	Sand Gra		<sup>2</sup> Location: DI	 _=Pore Lining, M=Ma	atriv
Hydric Soil I		cuon, KIVI=h	ceuuceu Mdliix, Mi	=ivia5KeQ	Sanu Gra	11115.		_=Pore Lining, M=Ma itors for Problemati	
Histosol			☐ Dark Surface	(S7)				cm Muck (A10) (MLI	•
_	ipedon (A2)		Polyvalue Be		ce (S8) <b>(M</b>	ILRA 147.		oast Prairie Redox (A	
Black His			Thin Dark Su				. <u> </u>	(MLRA 147, 148)	•
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		☐ Pi	iedmont Floodplain S	Soils (F19)
	Layers (A5)		Depleted Ma				_	(MLRA 136, 147)	
_	ck (A10) (LRR N)		Redox Dark	,	•			ery Shallow Dark Su	
_	Below Dark Surface	e (A11)	Depleted Da				○	ther (Explain in Rem	arks)
	rk Surface (A12) ucky Mineral (S1) <b>(L</b>	DD N	Redox Depre			DD N			
-	ucky Milieral (31) <b>(L</b> . <b>147, 148)</b>	KK N,	☐ Iron-Mangan MLRA 13		5 (F 12) <b>(I</b>	_KK IV,			
	leyed Matrix (S4)		☐ Umbric Surfa		MLRA 13	6. 122)	<sup>3</sup> Indi	cators of hydrophytic	vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must	
	Matrix (S6)		Red Parent N					ess disturbed or prol	
Restrictive L	ayer (if observed):	No							
Type: Roc	k refusal		<u></u>						
Depth (inc	hes): <u>10</u>						Hydric Soil	Present? Yes	NoX
Remarks:							1		





East

Project/Site: AEP Hillsboro to	Millbrook Park		City/C	Sounty: Highlar	nd		Sampling	Date: 09/24/2019
Applicant/Owner: AEP			City/C	Journey		State: OH	_ Campling	ng Point: Upland HM-019
Investigator(s): SAH, RW			Soction	on Township P	Ohir	Surveys VIRGINIA N	Sampiii MII ITARY DIST	RICT OH93Highland Lot 1521
Landform (hillslope, terrace, e								
Subregion (LRR or MLRA): <u>L</u>								Slope (%) _ Datum: WGS 84
Soil Map Unit Name: Boston-						NWI classifi		
							· ·	
Are climatic / hydrologic condi			-					. Y
Are Vegetation, Soil _			-					Yes X No
Are Vegetation _, Soil _	_, or Hydrolo	gy.	_ naturally problema	atic? (If r	needed, ex	xplain any answe	ers in Rema	ırks.)
SUMMARY OF FINDIN	IGS – Attach	site ma	ap showing san	npling point	location	ns, transects	s, import	ant features, etc.
Hydrophytic Vegetation Pres	sent? Yes	Х	No	Is the Sample	ad Araa			
Hydric Soil Present?			NoX	within a Wetla		Yes	No	
Wetland Hydrology Present?	Yes		No X					
Remarks:								
Located in fallow field.								
Field ID: U-SAH-092419-02								
HYDROLOGY								
Wetland Hydrology Indicat	ors:					 Secondary Indic	ators (minin	num of two required)
Primary Indicators (minimum		d: check	all that apply)		Ī	Surface Soil	•	<del>-</del>
Surface Water (A1)			Frue Aquatic Plants (	B14)	i			ncave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Od		Ī	Drainage Pa	-	
Saturation (A3)			Oxidized Rhizospher		ots (C3)	Moss Trim L		,
Water Marks (B1)			Presence of Reduced	_	(	Dry-Season		le (C2)
Sediment Deposits (B2)			Recent Iron Reductio		(C6)	Crayfish Bu		- ()
Drift Deposits (B3)			Thin Muck Surface (0		(/			erial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Rer	•	Ī	Stunted or S		
Iron Deposits (B5)			` .	,	Ī	Geomorphic		
Inundation Visible on Ae	erial Imagery (B7)				Ī	Shallow Aqu	•	,
Water-Stained Leaves (					Ĩ	Microtopogr		f (D4)
Aquatic Fauna (B13)	,				Ī	FAC-Neutra		,
Field Observations:						<u> </u>		
Surface Water Present?	Yes No	, X	Depth (inches):					
Water Table Present?			Depth (inches):					
Saturation Present?			Depth (inches):		Votland H	ydrology Prese	nt? Voc	NoX
(includes capillary fringe)	1651		Deptii (iiiciies).		retiana m	yarology Frese	1105_	NO
Describe Recorded Data (str	ream gauge, mon	itoring we	ell, aerial photos, pre	vious inspection	າs), if avail	able:		
Remarks:								

Sampling	Point:	Upland	HM-019
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	001	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:			Species?		Number of Dominant Species	
1					That Are OBL, FACW, or FAC:1 (A)	!
2					Total Number of Dominant	
3					Species Across All Strata:1 (B)	,
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 100.00 (A/	B)
6					Prevalence Index worksheet:	-
		:	= Total Cove	er	Total % Cover of:Multiply by:	
	50% of total cover:0	20% of	total cover:	0	OBL species 0 x 1 = 0	
Sapling Stratum (Plot size:	15')				FACW species 0 x 2 = 0	
1					FAC species 75 x 3 = 225	
2					FACU species 26 x 4 = 104	
3					UPL species5 x 5 = 25	
4					Column Totals: 106 (A) 354 (E	٥١
5					Column Totals. 100 (A) 004 (E	"
•					Prevalence Index = B/A = 3.34	
		0 :	= Total Cove	er	Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	·	2070 01	total cover.		X 2 - Dominance Test is >50%	
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporti	ing
3					data in Remarks or on a separate sheet)	
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5						
_					<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
0		_	= Total Cove		be present, unless disturbed or problematic.	
					Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	5')			E4011	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
_				FACU	(7.0 cm) of larger in diameter at breast neight (DBH).	
2. Symphyotrichum ericoides			N	FACU	Sapling – Woody plants, excluding woody vines,	
3. Apocynum androsaemifolium	<u>m</u>			FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
4. Solidago rugosa		<u>75</u>	Y	FAC		
5. Daucus carota		5	N	UPL	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
					approximately 5 to 20 ft (1 to 5 ff) in neight.	
7					<b>Herb</b> – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	
8					plants, except woody vines, less than approximately	3
9					ft (1 m) in height.	
10					Woody vine – All woody vines, regardless of height.	
11					Trocky Time 7 till Woody Times, regal dises of meight.	
		106	= Total Cove	er		
	50% of total cover: 53	20% of	total cover:	21		
Woody Vine Stratum (Plot size	:)					
1						
2						
3						
4.						
5					l.,	
		0 :	= Total Cove	<del></del> er	Hydrophytic Vegetation	
	50% of total cover:0	20% of	total cover	0	Present? Yes X No	
Remarks: (Include photo numb			.J.G. 00VEI.			
Tromaino. (moidue prioto nume	one note of oil a separate s	11001.)				

Depth	Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the in	dicator	or confirm	the absence	of indicato	rs.)		
O - 12				Redox	Features							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	(inches)	Color (moist)						<u>Texture</u>		Remark	S	
Hydric Soil Indicators:    Histosol (A1)	0 — 12	10YR 5/3	95	7.5YR 4/6	5	С	M	Loam				
Hydric Soil Indicators:    Histosol (A1)	_											
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)	-											
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)	_											
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)	_											
Hydric Soil Indicators:    Histosol (A1)	¹Type: C=Co	ncentration D-Denk	etion RM-R	educed Matrix MS	-Macked	Sand Gr	nine	<sup>2</sup> Location: Pl	-Pore Linir	na M-Matr	iv	
Histosol (A1) Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Restrictive Layer (if observed): Restrictive Layer (if observed):  Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Deployalue Below Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Other (Explain in Remarks)  Inon-Manganese Masses (F12) (LRR N, MLRA 136, 122) MLRA 136, MLRA 136, Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Restrictive Layer (if observed): No  Type: Depth (inches):  Hydric Soil Present? Yes No X			elion, Kivi–K	educed Matrix, MS	-iviaskeu	Sanu Gr	aii i5.					ils <sup>3</sup> ·
Histic Epipedon (A2)	-			Dark Surface	(\$7)						-	
Black Histic (A3) ☐ Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148)   ☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2) ☐ Piedmont Floodplain Soils (F19)   ☐ Stratified Layers (A5) ☐ Depleted Matrix (F3) (MLRA 136, 147)   ☐ 2 cm Muck (A10) (LRR N) ☐ Redox Dark Surface (F6) ☐ Very Shallow Dark Surface (TF12)   ☐ Depleted Below Dark Surface (A11) ☐ Depleted Dark Surface (F7) ☐ Other (Explain in Remarks)   ☐ Thick Dark Surface (A12) ☐ Redox Depressions (F8)   ☐ Sandy Mucky Mineral (S1) (LRR N, MLRA 136) ☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)   ☐ Sandy Gleyed Matrix (S4) ☐ Umbric Surface (F13) (MLRA 136, 122)   ☐ Sandy Redox (S5) ☐ Piedmont Floodplain Soils (F19) (MLRA 148)   ☐ Stripped Matrix (S6) ☐ Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.    Restrictive Layer (if observed): No  Type:  Depth (inches):  Hydric Soil Present? Yes NoX						e (S8) <b>/</b> N	II RA 1/17					
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Depth (inches):  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F2)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Other (Explain in Remarks)  Other (Explain in Remarks)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Nemarks  Other (Explain in Remarks)  Incommanganese Masses (F12) (LRR N, MLRA 136, 122)  Wertland National Matrix (S4)  Wetland Hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes NoX								. <del>-</del> -0) C		,	·)	
Stratified Layers (A5)					, ,	•	47, 140)	Пв			lo (E10)	
2 cm Muck (A10) (LRR N)		, ,				2)		<u> </u>			IS (F19)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147) Depth (inches):  Depth (inches)											(== (0)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) MLRA 147, 148) MLRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 127, 147)  Restrictive Layer (if observed): No  Type: Depth (inches):  Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  MLRA 136) Iron-Manganese Masses (F12) (MLRA 136, 122)  MLRA 136, Iron-Manganese Masses (F12) (MLRA 136, 122)  Multiple Matrix (S4)  MLRA 136, Iron-Manganese Masses (F12) (MLRA 136, 122)  Multiple Matrix (S4)  MLRA 136, Iron-Manganese Masses (F12) (MLRA 136, 122)  Multiple Matrix (S4)					•	,						
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed): No  Type:  Depth (inches):  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  MLRA 136, 122)  Jeron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Jeron-Manganese Masses (F12) (MLRA 148)  Jeron-Manganese Masses (F12) (MLRA 148)  Jeron-Manganese Masses (F12) (MLRA 148)  Jeron-Manganese Masses (F12) (ML			(A11)					0 ∟∟	ther (Explai	n in Remar	ks)	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Umbric Surface (F13) (MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Restrictive Layer (if observed): No  Type:  Depth (inches):  Hydric Soil Present? Yes No _X												
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Restrictive Layer (if observed): Depth (inches):  Hydric Soil Present? Yes No _X	Sandy M	ucky Mineral (S1) (L	RR N,	☐ Iron-Mangane	se Masse	s (F12) (	LRR N,					
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Restrictive Layer (if observed): Depth (inches):  Hydric Soil Present? Yes No _X	MLRA	147, 148)		MLRA 136	5)							
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): No  Type: Depth (inches): Hydric Soil Present? Yes No _X						ILRA 13	6. 122)	<sup>3</sup> Indi	cators of hy	drophytic v	egetation a	and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Restrictive Layer (if observed): No  Type: Depth (inches): Hydric Soil Present? Yes No _X												
Restrictive Layer (if observed): No           Type:				_								
Type:  Depth (inches):			No	rear arenew	atoriai (i Z	1) (11121)	A 127, 147	, u.i.	COO GIOTGI DE	or proble	mano.	
Depth (inches):         Hydric Soil Present?         Yes         No         X												
	• • • • • • • • • • • • • • • • • • • •			<del></del>					D 40	V	NI -	~
Remarks:		nes):		<del>-</del>				Hydric Soil	Present?	Yes	NO_	
	Remarks:											

Soil Photos:

Upland HM-019





soil profile view: northeast

Project/Site: AEP Hillsboro to	Millbrook Park		Citv/C	County: Highland		_ Sampling Date:09/30/2019
Applicant/Owner: AEP					State: OH	Sampling Point: Upland HM-020
Investigator(s): MJA, KJD			Section	on, Township, Range: C		MILITARY DISTRICT OH93Highland Lot 1521
Landform (hillslope, terrace, e						
Subregion (LRR or MLRA): L						Datum: WGS 84
Soil Map Unit Name: Boston-	Bratton complex,	6 to 12		_		
Are climatic / hydrologic condi	tions on the site t	ypical fo	or this time of year? Y	'es X No	(If no, explain in I	Remarks.)
Are Vegetation, Soil _					•	present? Yes X No
-	•		naturally problema		explain any answ	ers in Remarks.)
					ons, transect	s, important features, etc.
Hydrophytic Vegetation Pres	sent? Yes		_ NoX	lo the Commission Avec		
Hydric Soil Present?	Yes		No_X	Is the Sampled Area within a Wetland?	Yes	NoX
Wetland Hydrology Present?	? Yes		No X			<del>_</del>
Remarks:			<del>-</del>			
Upland data point situated or	ı east-facing slope	e. in old	field, under transmiss	sion line.		
' '	· .					
Field ID: U-MJA-093019-02						
HYDROLOGY						
Wetland Hydrology Indicat	tors:				Secondary Indic	cators (minimum of two required)
		di chacl	k all that apply)			il Cracks (B6)
Primary Indicators (minimum	rorone is require			'D14)	_	, ,
Surface Water (A1)		Η	True Aquatic Plants ( Hydrogen Sulfide Od			egetated Concave Surface (B8) atterns (B10)
High Water Table (A2) Saturation (A3)		H		es on Living Roots (C3)		
Water Marks (B1)		片	Presence of Reduced	-		n Water Table (C2)
Sediment Deposits (B2)		H	Recent Iron Reduction		Crayfish Bu	
Drift Deposits (B3)		一一	Thin Muck Surface (0			Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		一一	Other (Explain in Rer			Stressed Plants (D1)
Iron Deposits (B5)			Carlor (Explain in Itol	namoj		c Position (D2)
Inundation Visible on Ac	erial Imagery (B7)				Shallow Aqu	
Water-Stained Leaves (	9 5					raphic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutra	•
Field Observations:						
Surface Water Present?	Yes N	, X	Depth (inches):			
Water Table Present?			Depth (inches):			
Saturation Present?			Depth (inches):		Hydrology Prese	ent? Yes NoX
(includes capillary fringe)						
Describe Recorded Data (str	ream gauge, mon	toring v	vell, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:						

Sampling Point: Upl	land HIVI-020
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	001	Absolute	Dominant		Dominance Test worksheet:				
Tree Stratum (Plot size:			Species?		Number of Dominant Species That Are ORL FACW or FAC:	(0)			
1					That Are OBL, FACW, or FAC:1	(A)			
2					Total Number of Dominant				
3					Species Across All Strata: 3	(B)			
4					Percent of Dominant Species				
5					That Are OBL, FACW, or FAC: 0.33	(A/B)			
6					Prevalence Index worksheet:				
			= Total Cove		Total % Cover of: Multiply by:				
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0				
Sapling Stratum (Plot size:	15'				FACW species 0 x 2 = 0				
1					FAC species 30 x 3 = 90				
2					FACU species 85 x 4 = 340				
3					UPL species5 x 5 =25				
4					Column Totals: 120 (A) 455	(B)			
5						(-/			
6					Prevalence Index = B/A = 3.79				
		:	= Total Cove	er	Hydrophytic Vegetation Indicators:				
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation				
Shrub Stratum (Plot size:	15'				2 - Dominance Test is >50%				
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>				
2					4 - Morphological Adaptations (Provide s	upporting			
3					data in Remarks or on a separate sheet)				
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	ilain)			
5					1	_			
6					<sup>1</sup> Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic.	y must			
		:	= Total Cove	er	Definitions of Five Vegetation Strata:				
	50% of total cover:0	20% of	total cover-	0					
Herb Stratum (Plot size:			total oovon		<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in</li> </ul>				
	,	25	N	FACU					
2. Andropogon virginicus			Y	FACU	<ul><li>Sapling – Woody plants, excluding woody vines,</li></ul>				
3. Symphyotrichum pilosum			Y	FAC	approximately 20 ft (6 m) or more in height and less				
Solidago canadensis	_	30	Y	FACU	than 3 in. (7.6 cm) DBH.				
5 Daucus carota	_	5	N	UPL	Shrub – Woody plants, excluding woody vines,				
6.			-		approximately 3 to 20 ft (1 to 6 m) in height.				
7					Herb – All herbaceous (non-woody) plants, inc	cluding			
8					herbaceous vines, regardless of size, and woo				
9					plants, except woody vines, less than approxir ft (1 m) in height.	nately 3			
10					it (1 m) in neight.				
11.					Woody vine – All woody vines, regardless of I	neight.			
		120 :	Total Cove						
	FOOY of total covery 60								
Manada Viana Charles (Dieb sinn	50% of total cover: 60 : 30' )	20% 01	total cover:	24					
Woody Vine Stratum (Plot size									
1									
2									
3									
4									
ວ			Total O-		Hydrophytic				
	_		= Total Cove		Vegetation   Present?   Yes No X				
	50% of total cover: 0		total cover:	<u> </u>	103				
Remarks: (Include photo numb	ers here or on a separate s	neet.)							

SOIL

Profile Desci	ription: (Describe to	o the depth	needed to docun	nent the in	dicator o	r confirm	the absence	of indicators.)	
Depth	Matrix			K Features		. 2			
(inches)	Color (moist)	<u></u> %	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remark	<u>S</u>
<u>8 — 0</u>	10YR 4/4						Clay loam		
_									
									_
_									
_									
			-					-	
1						:	21 +: DI	Dana Linian M Matri	
Hydric Soil I	ncentration, D=Deple	etion, RIVI=Re	educed Matrix, MS	=IVIasked	Sand Gra	ins.		_=Pore Lining, M=Matri Itors for Problematic	
Histosol (			□ Dark Surface	(\$7)				cm Muck (A10) <b>(MLRA</b>	•
	ipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	Ι ΡΔ 147		oast Prairie Redox (A1	
Black His			Thin Dark Su				140) 0	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye			,,	☐ Pi	iedmont Floodplain Soi	ls (F19)
	Layers (A5)		Depleted Mat					(MLRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark S					ery Shallow Dark Surfa	
	Below Dark Surface	(A11)	Depleted Dar					ther (Explain in Remarl	ks)
	rk Surface (A12)	DD N	Redox Depre			DD N			
	ucky Mineral (S1) <b>(L</b> l <b>147, 148)</b>	KK N,	☐ Iron-Mangane MLRA 136		S (F 12) <b>(L</b>	.KK N,			
	eyed Matrix (S4)		Umbric Surfa		VII RA 130	5. 122)	<sup>3</sup> Indi	cators of hydrophytic v	egetation and
	edox (S5)		Piedmont Flo					tland hydrology must b	
	Matrix (S6)		Red Parent M					ess disturbed or proble	·
Restrictive L	ayer (if observed):	Yes							
Type: Clay	hard pan		_						
Depth (inc	hes): <u>8</u>		_				Hydric Soil	Present? Yes	No <u>X</u>
Remarks:							1		





Southwest Soil Profile

Project/Site: AEP Hillsboro to	Millbrook Park	City/C	County: Highland	Sam	opling Date: 09/30/2019				
Applicant/Owner: AEP				State OH Sc	ampling Point: Upland HM-021				
Investigator(s): JRM, MJA		Section	Section, Township, Range: Ohio Surveys VIRGINIA MILITARY DISTRICT OH93Highland Lot 1203						
Landform (hillslope, terrace, et	c.): Flat	Local rel	ief (concave, convex, nor	ne): Flat	Slope (%): 0				
Subregion (LRR or MLRA): <u>LF</u>									
Soil Map Unit Name: Algiers s									
Are climatic / hydrologic condit		al for this time of vear?							
Are Vegetation, Soil				Circumstances" preser					
Are Vegetation _, Soil _				explain any answers in f					
J		_	,	, ,	,				
SUMMARY OF FINDING	GS – Attach site	map showing san	npling point location	ons, transects, im	portant features, etc.				
Hydrophytic Vegetation Prese		No <u>X</u>	Is the Sampled Area		Χ				
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	No				
Wetland Hydrology Present?	Yes	No <u>X</u>							
Remarks:									
Upland data point situation in	an old field, between	wetland and row crops,	under transmission line.						
Field ID: U-MJA-093019-01									
HYDROLOGY									
Wetland Hydrology Indicate	ors:			Secondary Indicators (	(minimum of two required)				
Primary Indicators (minimum		neck all that apply)		Surface Soil Crack					
Surface Water (A1)		True Aquatic Plants	(B14)		ed Concave Surface (B8)				
High Water Table (A2)	İ	Hydrogen Sulfide Od	,	Drainage Patterns					
Saturation (A3)	İ	res on Living Roots (C3)	Moss Trim Lines (						
Water Marks (B1)	ľ	Dry-Season Water	•						
Sediment Deposits (B2)	Ī	d Iron (C4) on in Tilled Soils (C6)	Crayfish Burrows (C8)						
Drift Deposits (B3)	İ	, ,	Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	i	Thin Muck Surface (© Other (Explain in Re	,	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)	<u>.</u>	Geomorphic Positi	· ·						
Inundation Visible on Ae	rial Imagery (R7)		Shallow Aquitard (	` '					
Water-Stained Leaves (E				` '					
Aquatic Fauna (B13)	19)			Microtopographic  FAC-Neutral Test	· ·				
Field Observations:			1	I AO-Nediral Test	(53)				
	Voc. No.	Conth (inches)							
Surface Water Present?		Depth (inches):							
Water Table Present?		Depth (inches):		hadaalaan Baaaa 40	v X				
Saturation Present? (includes capillary fringe)	Yes No _/	C Depth (inches):	wetland F	Hydrology Present?	Yes NoX				
Describe Recorded Data (stre	eam gauge, monitorir	ng well, aerial photos, pre	evious inspections), if ava	ilable:					
Remarks:									

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

EGETATION (Five Stra	ata) – Us	e scientific n	ames of p	plants.		Sampling Point: Upland HM-021
	001			Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 1				Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2						Total Number of Dominant
3						Species Across All Strata: 2 (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC:0 (A/B)
6						Dravalance Index worksheets
			0	= Total Cov	er	Prevalence Index worksheet:
	50% of	total cover:0	20% of	total cover:	0	
Sapling Stratum (Plot size:	15'	)				OBL species0 x 1 =0  FACW species0 x 2 =0
1						
2						1 AO Species X 0 =
3						1 A00 species X 4 =
4						x =
5						Column Totals:120 (A)480 (B)
6						Prevalence Index = B/A = 4.00
				= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of	total cover:0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		otal cover	20 /0 01	total cover.		2 - Dominance Test is >50%
1		/				3 - Prevalence Index is ≤3.0 <sup>1</sup>
						4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2						data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4						
5 6						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			0	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of f	total cover: 0	20% of	total cover:	0	The Manda de plants avaleding average de vince
Herb Stratum (Plot size:	5'	)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi			60	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Cirsium arvense			10	N	FACU	Sapling – Woody plants, excluding woody vines,
3. Sorghum halepense			50	Y	FACU	approximately 20 ft (6 m) or more in height and less
4						than 3 in. (7.6 cm) DBH.
5						Shrub – Woody plants, excluding woody vines,
6						approximately 3 to 20 ft (1 to 6 m) in height.
7						<b>Herb</b> – All herbaceous (non-woody) plants, including
8						herbaceous vines, regardless of size, and woody
9						plants, except woody vines, less than approximately 3 ft (1 m) in height.
10						
11						Woody vine – All woody vines, regardless of height.
				= Total Cov	er	
	50% of	total cover:60				
Woody Vine Stratum (Plot siz		30' )	20 /0 01	total cover.		
1		/				
_						
•						
3						
4						
5			0	- Total O-		Hydrophytic
		_		= Total Cov	_	Vegetation   Present?   Yes No_ X
		total cover: 0		total cover:	0	100
Remarks: (Include photo num	ibers here	or on a separate	sheet.)			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redox	Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	S	
0 — 4	10YR 5/4	100					Clay loam				
4 - 6	10YR 4/4	100					Clay loam				
_											
_											
			_				-				
1 <sub>Type: C=Ce</sub>	noontration D-Donl	otion DM-E	loduced Matrix, MS	-Maakad S	and Cra	ino	<sup>2</sup> Location: DI	-Doro Lini	na M-Matri		
Hydric Soil I	ncentration, D=Depl	elion, Rivi-R	teduced Matrix, MS	-Wasked S	and Gra	IIIS.	<sup>2</sup> Location: Pl		oblematic		ls³:
☐ Histosol			☐ Dark Surface	(S7)					A10) <b>(MLRA</b>	-	
_	ipedon (A2)		Polyvalue Bel		(S8) <b>(M</b>	I RA 147			Redox (A1		
Black His			Thin Dark Sui				140)	(MLRA 14	•	5)	
	n Sulfide (A4)		Loamy Gleye			+1, 140)	Пь	•	odplain Soi	le (F10)	
	Layers (A5)		☐ Depleted Mat		-)		<u> </u>			15 (1 15)	
								(MLRA 13		(== (0)	
	ck (A10) (LRR N)	(* 4 4 )	Redox Dark S	, ,					Dark Surfa		
	Below Dark Surface	(A11)	Depleted Dar		-7)			ther (Explai	in in Remarl	KS)	
	rk Surface (A12)		Redox Depre								
	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangane	ese Masses	(F12) <b>(L</b>	.RR N,					
MLRA	147, 148)		MLRA 136	6)							
☐ Sandy G	leyed Matrix (S4)		Umbric Surface	ce (F13) <b>(M</b> I	LRA 136	6, 122)	<sup>3</sup> Ind	icators of hy	drophytic v	egetation a	nd
	edox (S5)		Piedmont Flo					-	logy must b	-	
	Matrix (S6)		Red Parent M					-	ed or proble		
	ayer (if observed):	Vec			/ ( <u></u>	,	1				
Type: grav		163									
Depth (inc							Hydric Soil	Present?	Yes	No	Χ
Remarks:							1				





Northeast Soil Profile

Project/Site: AEP Hillsboro to	Millbrook Park		City/0	County: Highland		_ Sampling Date:	
Applicant/Owner: AEP					State: OH	Sampling Point: Upland HM-022	
Investigator(s): MJA			Secti	on, Township, Range: <u>C</u>	Dhio Surveys VIRGINIA	MILITARY DISTRICT OH93Highland Lot 1520	
Landform (hillslope, terrace, et	tc.): Hillside		Local relief (concave, convex, none): Convex Slope (				
Subregion (LRR or MLRA): LF						Datum: WGS 84	
Soil Map Unit Name: Opequo				-			
Are climatic / hydrologic condit							
Are Vegetation, Soil			=		•	present? Yes X No	
			naturally problem		explain any answ	ers in Remarks.)	
					ons, transect	s, important features, etc.	
Hydrophytic Vegetation Pres	ent? Ye:	5	NoX	Is the Sampled Area			
Hydric Soil Present?	Yes	- —— S	No_X	within a Wetland?	Yes	NoX	
Wetland Hydrology Present?	Yes	5	No X			<del>_</del>	
Remarks:			<del></del>				
Data point situated on east-fa	icing slope, unde	r transr	mission line.				
Field ID: U-MJA-100219-01							
HYDROLOGY							
Wetland Hydrology Indicat	ors:				Secondary Indic	cators (minimum of two required)	
Primary Indicators (minimum		ed: che	rk all that annly)			il Cracks (B6)	
Surface Water (A1)	or one is require	Ju, crice	True Aquatic Plants	(R14)	_	egetated Concave Surface (B8)	
High Water Table (A2)		F	Hydrogen Sulfide Od			atterns (B10)	
Saturation (A3)		⊨	1	es on Living Roots (C3)			
Water Marks (B1)		F	Presence of Reduce	-		n Water Table (C2)	
Sediment Deposits (B2)		┌	1	on in Tilled Soils (C6)	Crayfish Bu		
Drift Deposits (B3)		F	Thin Muck Surface (			Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)			Other (Explain in Rei			Stressed Plants (D1)	
Iron Deposits (B5)			• ` '	,		c Position (D2)	
Inundation Visible on Ae	rial Imagery (B7)	)			Shallow Aq		
Water-Stained Leaves (I						raphic Relief (D4)	
Aquatic Fauna (B13)	·				FAC-Neutra	•	
Field Observations:							
Surface Water Present?	Yes N	o X	Depth (inches):				
Water Table Present?			Depth (inches):				
Saturation Present?			Depth (inches):		Hydrology Prese	ent? Yes NoX	
(includes capillary fringe)					2.11		
Describe Recorded Data (str	eam gauge, mor	nitoring	well, aerial photos, pre	evious inspections), if av	allable:		
Remarks:							

Sampling Point:	Upland HM-022
-----------------	---------------

	001	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:	30' )		Species?		Number of Dominant Species
1. Juglans nigra		30	Y	FACU	That Are OBL, FACW, or FAC: (A)
		20	Y	FACU	Total Number of Dominant
3. Cercis canadensis		10	N	_FACU_	Species Across All Strata: 5 (B)
4					Dergant of Deminant Species
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6					
		60	= Total Cov	er	Prevalence Index worksheet:
	50% of total cover:30	20% of	total cover	12	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:	· · · · · · · · · · · · · · · · · · ·	2070 01	total cover.		OBL species x 1 =
					FACW species x 2 =
1					FAC species76 x 3 =228
2					FACU species68
3					UPL species x 5 =
4					Column Totals:144 (A)500 (B)
5					
6					Prevalence Index = B/A = 3.47
			= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15' )	<u>.</u>			2 - Dominance Test is >50%
		8	Υ	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
o. Dubus allemberiancis			Y	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
•					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		16:	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 8	20% of	total cover:	3.2	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5' )				approximately 20 ft (6 m) or more in height and 3 in.
1. Verbesina alternifolia		15	N	_FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Microstegium vimineum		45	Y	_FAC_	Sapling – Woody plants, excluding woody vines,
3. Impatiens capensis		10	N	FACW	approximately 20 ft (6 m) or more in height and less
4. Vernonia gigantea		8	N	FAC	than 3 in. (7.6 cm) DBH.
5.					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Horb. All harbaccous (non woody) plants including
					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					, , , , , , , , , , , , , , , , , , ,
		78	= Total Cov	er	
	50% of total cover: 39	20% of	total cover:	15.6	
Woody Vine Stratum (Plot size	:)				
1					
2					
3					
5.					
J			= Total Cov		Hydrophytic
				_	Vegetation   Present?   Yes No X
	50% of total cover:0		total cover:	0	100
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0 — 4 10YR 4/3 100		Silt loam
<u>4 — 16</u> <u>10YR 4/4</u> <u>100</u>		Silt loam
_		
_ <del>_</del>		
<u> </u>		
_		
	Delication of Market Control	21
Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	☐ Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	☐ Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)	MLRA 136)  ☐ Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (34)  Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 148	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)	* ** .
Restrictive Layer (if observed): Yes		
Type: Bedrock	<u></u>	
Depth (inches): 16	<u></u>	Hydric Soil Present? Yes No X
Remarks:		



West Soil Profile

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:			Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC:1 (A)
2					Total Number of Dominant
3					Species Across All Strata: 4 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 25.00 (A/B)
6					Prevalence Index worksheet:
		0	= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	15')				FACW species 0 x 2 = 0
1					FAC species 30 x 3 = 90
2					FACU species 95 x 4 = 380
3					
4					UPL species 0 x 5 = 0
					Column Totals:125 (A)470 (B)
0					Prevalence Index = B/A = 3.76
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5	-				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0			= Total Cov		be present, unless disturbed or problematic.
		U	= Total Cov	er	Definitions of Five Venetation Strate:
					Definitions of Five Vegetation Strata:
	50% of total cover: 0				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:				0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Symphyotrichum ericoides		20% of	total cover:	0 FACU	Tree – Woody plants, excluding woody vines,
<ol> <li>Symphyotrichum ericoides</li> <li>Andropogon virginicus</li> </ol>	5' )	20% of	total cover:	0 FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila	5' )	20% of2530	total cover:	0 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila	5' )	20% of2530	total cover:	0 FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila	5' )	20% of 25 30 30	total cover:	FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila	5' )	20% of  25  30  30  40	Y Y Y Y	FACU FACU FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     Setaria pumila	5' )	20% of 25 30 30 40	Y Y Y Y	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     .      .	5' )	20% of25303040	total cover;	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     C    C	5' )	20% of303040	Y Y Y Y	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C	5' )	20% of 25 30 30 40	Y Y Y Y	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     .      .	5' )	20% of303040	Y Y Y Y	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C    C    C    C    C    C    C    C    C    C    C    C    C   C	5' )	20% of	Y Y Y Y	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     .      .	5' )	20% of	Y Y Y Y  T Y  T T T T T T T T T T T T T	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' ) 50% of total cover: 63	20% of	Y Y Y Y  T Y  T T T T T T T T T T T T T	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     Company of the second	5' )  50% of total cover: 63  30' )	20% of	Y Y Y Y T T Total Cover:	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     Company of the set of the	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  TOTAL COVET:	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  T Y  T Y  T Y  T Y  T Y  T T T T T T T T T T T T T T T T T T T	FACU FACU FACU FACU FACU  FACU  FACU  FACU  FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides     Andropogon virginicus     Setaria pumila     Ambrosia artemisiifolia     Company of the set of the	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  T Y  T Y  T Y  T Y  T Y  T T T T T T T T T T T T T T T T T T T	FACU FACU FACU FACU FACU  FACU  FACU  FACU  FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  T T Otal Cover:	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  T T Otal Cover:	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of	Y Y Y Y  T T Otal Cover:	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of 25 30 30 40	Y Y Y Y  Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Symphyotrichum ericoides Andropogon virginicus Setaria pumila Ambrosia artemisiifolia  Ambrosia artemisiifolia	5' )  50% of total cover: 63 30' )	20% of 30 30 40 125 20% of 0 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of 20% of	Y Y Y Y  Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

Profile Description: (Describe to the d	epth needed to document the indicator or confir	n the absence of indicators.)	
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Re	marks
<u>0 — 18</u> <u>10YR 4/4</u> <u>100</u>		Loam	
_ <del>_</del>			
<del>-</del>			
<del>-                                   </del>			
		·	
	M=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M= Indicators for Problem	
Hydric Soil Indicators:	_		-
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) <b>(</b> N	
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147	, <b>148)</b> 🔲 Coast Prairie Redo:	x (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148	)
Hydrogen Sulfide (A4)	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	
Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	Other (Explain in R	emarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)	0	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydroph	ytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	wetland hydrology m	ust be present.
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14		-
	Ned Falent Material (F21) (MLKA 121, 12	T unless disturbed or p	noblematic.
Restrictive Layer (if observed): No			
Type:			
Depth (inches):		Hydric Soil Present? Yes	No <u>X</u>
Remarks:			





Project/Site: AEP Hillsboro to	Millbrook Park	City/C	<sub>county:</sub> Highland	Samplin	g Date: 10/01/2019
Applicant/Owner: AEP			,	State: OH Samp	ling Point: Upland HM-024
Investigator(s): KJD, JRM		Section		io Surveys VIRGINIA MILITARY DIS	
Landform (hillslope, terrace, et	c.): Swale	Local reli	ef (concave, convex, non	ne): Undulating	Slope (%): 3
Subregion (LRR or MLRA): LF	RR N Lat	39.07266	Lona:	-83.43217	Datum: WGS 84
Soil Map Unit Name: Bratton s					
Are climatic / hydrologic condit					
Are Vegetation, Soil				Circumstances" present?	
	, or Hydrology			explain any answers in Rem	
, com_	_, or riyurology	_ naturally problems	in nocaca, c	Apidin driy driowers in rten	iarro.)
<b>SUMMARY OF FINDIN</b>	GS – Attach site n	nap showing sam	pling point locatio	ns, transects, impor	tant features, etc.
Hydrophytic Vegetation Prese		NoX	Is the Sampled Area		X
Hydric Soil Present?		No	within a Wetland?	Yes No _	
Wetland Hydrology Present?	Yes X	No			
Remarks:					
Upland data point situation in	an old field, between we	etland and row crops, u	under transmission line.		
Field ID: U-KJD-100119-01					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicators (min	imum of two required)
Primary Indicators (minimum		ck all that annly)		Surface Soil Cracks (E	•
Surface Water (A1)		True Aquatic Plants (	R14)	Sparsely Vegetated C	
High Water Table (A2)	H	Hydrogen Sulfide Ode		Drainage Patterns (B1	
Saturation (A3)	<u> </u>		es on Living Roots (C3)	Moss Trim Lines (B16	
Water Marks (B1)		Presence of Reduced		Dry-Season Water Ta	
Sediment Deposits (B2)	┌	Recent Iron Reductio		Crayfish Burrows (C8)	
Drift Deposits (B3)	┌	Thin Muck Surface (C	, ,	Saturation Visible on A	
Algal Mat or Crust (B4)	┌	Other (Explain in Ren	,	Stunted or Stressed P	
Iron Deposits (B5)		(=	,	Geomorphic Position (	
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitard (D3)	
Water-Stained Leaves (E				Microtopographic Reli	
Aquatic Fauna (B13)	,			FAC-Neutral Test (D5	
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		_ Depth (inches):	Wetland H	lydrology Present? Yes	X No
(includes capillary fringe)					
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pre	vious inspections), if avai	ilable:	
Remarks:					

Sampling Point: U	Jpland HM-02₄
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	201	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					
3					Total Number of Dominant Species Across All Strata: 1 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC:0 (A/B)
6					Prevalence Index worksheet:
		=	= Total Cove	er	Total % Cover of: Multiply by:
	50% of total cover:0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	)				FACW species 0 x 2 = 0
1					FAC species 20 x 3 = 60
2					FACU species 100 x 4 = 400
3					1 ACO species
4					100
5					Column Totals:120 (A)460 (B)
					Prevalence Index = B/A = 3.83
		=	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					1
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0 =	= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:					<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
		60	Υ	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Festuca rubra	_	20	N	FACU	Sapling – Woody plants, excluding woody vines,
3. Symphyotrichum ericoides		20	N	FACU	approximately 20 ft (6 m) or more in height and less
Conoclinium coelestinum		20	N	FAC	than 3 in. (7.6 cm) DBH.
5.	_				Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					<b>Herb</b> – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					it (1 m) m neight.
11					Woody vine – All woody vines, regardless of height.
			= Total Cove		
	50% of total cover: 60				
Mandy Vina Stratum (Diet size		20% 01	lotal cover.	27	
Woody Vine Stratum (Plot size:					
1					
2					
3					
4					
5					Hydrophytic
			= Total Cove		Vegetation Present? Yes NoX
	50% of total cover: 0	20% of	total cover:	0	TES NO
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Depth	Matrix Color (moist)	%		Features	Typo <sup>1</sup>	Loc <sup>2</sup>	Toytura	Pomorko
(inches)	10YR 4/2	95	Color (moist) 5YR 4/6	<u>%</u> _	Type <sup>1</sup> C	PL	<u>Texture</u> Clay loam	Remarks  Pore linings to surface, but no other
0 — 14	10 Y R 4/2	95	5 Y K 4/0				Clay loam	
								^signs of hydrology
_								
_								
	-						·	
								-
_								
							2	
	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked S	and Gra	ins.		L=Pore Lining, M=Matrix.
ydric Soil I								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (			☐ Dark Surface		(00) (1)			cm Muck (A10) (MLRA 147)
Black His	ipedon (A2)		Polyvalue Be Thin Dark Su				148) C	oast Prairie Redox (A16) (MLRA 147, 148)
_	n Sulfide (A4)		Loamy Gleye			47, 140)	Пь	iedmont Floodplain Soils (F19)
_	Layers (A5)		✓ Depleted Mat		.)		<u>—</u> ·	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark S				□ v	ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar	, ,				ther (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8)				
-	ucky Mineral (S1) <b>(L</b>	RR N,	☐ Iron-Mangan		(F12) <b>(I</b>	_RR N,		
_	147, 148)		MLRA 136	•			2	
	leyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
_	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6) ayer (if observed):		Red Parent M	laterial (F21	) (MLR	4 127, 147	') un	less disturbed or problematic.
Type:			<u></u>					5 10 W V N
Depth (inc	hes):						Hydric Soil	Present? Yes X No No
temarks:								



View facing north

Project/Site: AEP Hillsboro to	Millbrook Park	City/0	County: Highland	Ç	Sampling Date: 10/02/2019
Applicant/Owner: AEP				State: OH	_ Sampling Point: Upland HM-025
Investigator(s): MJA		Secti	ion, Township, Range: <sup>Ohi</sup>	io Surveys VIRGINIA MILITA	ARY DISTRICT OH93Highland Lot 4024, 5019
Landform (hillslope, terrace, et					
Subregion (LRR or MLRA): LF		Lat: 39.06905	Long:	-83.42	2041 Datum: WGS 84
Soil Map Unit Name: Opequor					
Are climatic / hydrologic condit					
Are Vegetation, Soil	= :	=		•	esent? Yes X No
		/ significantly dista / naturally problem		explain any answers	<u></u>
, co <u>.</u> , co <u>.</u>	<u>_</u> , or, are reg,		(ii needed, e	Apiani any anemore	
SUMMARY OF FINDIN	GS – Attach si	ite map showing sar	npling point locatio	ns, transects,	important features, etc.
Hudronko Vonetskie o Droe		No. Y			
Hydrophytic Vegetation Presonal Hydric Soil Present?	ent? Yes _	No X No X	Is the Sampled Area within a Wetland?	Vos	X
Wetland Hydrology Present?	Ves_	No X	within a wettand:	163	_ NO
Remarks:		NOX			
Upland data point situated on	north facing clone	in active cottle pasture			
Opiana data point situated on	north-racing slope,	in active cattle pasture.			
F: 11 ID II MIA 100210 02					
Field ID: U-MJA-100219-02					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil C	, ,
Surface Water (A1)		True Aquatic Plants			etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Oc		Drainage Patte	
Saturation (A3)			res on Living Roots (C3)	Moss Trim Line	
Water Marks (B1)		Presence of Reduce			/ater Table (C2)
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burro	
Drift Deposits (B3)		Thin Muck Surface (			ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		U Other (Explain in Re	marks)		essed Plants (D1)
Iron Deposits (B5)				Geomorphic P	
Inundation Visible on Ae	0 3			Shallow Aquita	
Water-Stained Leaves (E	39)			Microtopograp	
Aquatic Fauna (B13)				FAC-Neutral T	est (D5)
Field Observations:	Van Na	Y Donth (inches)			
Surface Water Present?		X Depth (inches):			
Water Table Present?		X Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes No _	x Depth (inches):	wetland H	lydrology Present?	? Yes NoX
Describe Recorded Data (stre	eam gauge, monito	oring well, aerial photos, pre	evious inspections), if avai	ilable:	
Remarks:					

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

3.\_\_\_\_\_

\_\_\_\_\_ = Total Cover

5.\_\_\_\_\_ \_\_\_\_ \_\_\_\_

Tree Stratum (Plot size: \_\_\_\_\_)

Sapling Stratum (Plot size: 15')

a) – Use scientific na	Absolute Dominant Indica	Sampling Point: Upland HM-025
30' )	% Cover Species? Stati	
		Total Number of Dominant Species Across All Strata: 1 (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
	0 = Total Cover	Prevalence Index worksheet:
50% of total cover:	20% of total cover: 0	Total % Cover of: Multiply by:
15'	20 % of total cover	OBL species x 1 =
		FACW species x 2 =
		FAC species x 3 =
		FACU species100 x 4 =400
		— UPL species x 5 =
		Column Totals:100 (A)400 (B)
		Prevalence Index = B/A = 4
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover: 0	20% of total cover: 0	1 - Rapid Test for Hydrophytic Vegetation
15'		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 <sup>1</sup>
		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		_
		<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>
	0 = Total Cover	Definitions of Five Vegetation Strata:
	20% of total cover: 0	Tree – Woody plants, excluding woody vines,
)		approximately 20 ft (6 m) or more in height and 3 in.
	90 Y FAC	<del></del>
	N FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately 3  ft (1 m) in height.
		Woody vine – All woody vines, regardless of height.
	= Total Cover	
50% of total cover: 50	20% of total cover: 20	
30' )	<u> </u>	_
		_
		1

		= Total Co	over	Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of total cove	er: 0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:				2 - Dominance Test is >50%
1.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3,				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ł				
5 6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Co	over	Definitions of Five Vegetation Strata:
	50% of total cover:0	20% of total cove	er: <u> </u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5' )			approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceu	S	90 Y	FACU_	(7.6 cm) or larger in diameter at breast height (DBH).
2 Trifolium pratense 3		10 N	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5 6				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
 7.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
				ft (1 m) in height.
				Woody vine – All woody vines, regardless of height.
l1				
		100 = Total Co	over	
Noody Vine Stratum (Plot siz	50% of total cover:50 e:)	20% of total cove	er: <u>20</u>	
l				
<u> .</u>				
3				
1				
5				Hydrophytic
		= Total Co	over	Vegetation
	50% of total cover:0	20% of total cove	er: <u> </u>	Present? Yes NoX
Remarks: (Include photo num	bers here or on a separate s	heet.)		
S Army Corps of Engineers				Eastern Mountains and Piedmont – Version 2.0

Profile Desci	iption: (Describe t	o the depth	needed to docum	nent the indicator	or confirm	the absence of	indicators.)	
Depth	Matrix		Redox	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remark	(S
<u>0</u> <u>—</u> 12	10YR 3/4	100				Silt loam		
_								
								_
_								_
								_
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked Sand G	rains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matr	ix.
Hydric Soil II							ors for Problematic	
☐ Histosol (	(A1)		Dark Surface	(S7)		2 cr	n Muck (A10) <b>(MLR</b> /	A 147)
☐ Histic Ep	pedon (A2)		Polyvalue Bel	low Surface (S8) (	MLRA 147,	<b>148)</b>	st Prairie Redox (A1	16)
Black His				rface (S9) (MLRA	147, 148)		VILRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye				dmont Floodplain So	ils (F19)
	Layers (A5)		Depleted Mat				MLRA 136, 147)	
	ck (A10) (LRR N)	(0.44)	Redox Dark S				y Shallow Dark Surfa	
	Below Dark Surface rk Surface (A12)	(A11)	Redox Depre	k Surface (F7)		Oth	er (Explain in Rema	rks)
	ucky Mineral (S1) <b>(L</b> l	RR N		ese Masses (F12)	(I RR N			
	147, 148)	icic iu,	MLRA 136		(LIXIX IV,			
	eyed Matrix (S4)			ce (F13) <b>(MLRA 1</b>	36, 122)	<sup>3</sup> Indica	ators of hydrophytic	vegetation and
Sandy Re				odplain Soils (F19			nd hydrology must b	
	Matrix (S6)			laterial (F21) <b>(MLI</b>			s disturbed or proble	
Restrictive L	ayer (if observed):	Yes						
Type: Com	paction		_					
Depth (inc	hes): <u>12</u>		_			Hydric Soil Pi	resent? Yes	No X
Remarks:						1 -		



Soil Profile

Project/Site: AEP Hillsboro to	Millbrook Par	k	Citv/C	County: Highland		_ Sampling Date:
Applicant/Owner: AEP					State: OH	Sampling Point: Upland HM-026
Investigator(s): MJA			Section	on, Township, Range: Ot	nio Surveys VIRGINIA MII	LITARY DISTRICT OH93Highland Lot 4024, 5019
Landform (hillslope, terrace, e						
Subregion (LRR or MLRA): <u>L</u>						Datum: WGS 84
Soil Map Unit Name: Shoals				ded, brief duration	NWI classifi	cation: N/A
Are climatic / hydrologic condi	tions on the sit	te typical	for this time of year? Y	/es X No	(If no, explain in F	Remarks.)
			=		-	present? Yes Nox
			naturally problema		explain any answe	
					ons, transects	s, important features, etc.
Hydrophytic Vegetation Pres	sent? Y	/es	NoX	Is the Sampled Area		
Hydric Soil Present?			No	within a Wetland?	Yes	NoX
Wetland Hydrology Present?			No X			_
Remarks:						
Data point situated in mowed	field, on east-	facing slo	ppe, under transmission	n line.		
Field ID: U-MJA-100319-01						
HYDROLOGY						
Wetland Hydrology Indicat	ors:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum		uired: che	ck all that apply)			I Cracks (B6)
Surface Water (A1)			True Aquatic Plants (	(B14)		egetated Concave Surface (B8)
High Water Table (A2)		⋷	Hydrogen Sulfide Od			atterns (B10)
Saturation (A3)			7 · ·	res on Living Roots (C3)	Moss Trim L	
Water Marks (B1)			Presence of Reduced	•		Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)			Thin Muck Surface (0	C7)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		L	Other (Explain in Rer	marks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic	Position (D2)
Inundation Visible on Ae	0 3	37)			Shallow Aqu	
Water-Stained Leaves (	B9)					raphic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutra	l Test (D5)
Field Observations:		V				
Surface Water Present?			Depth (inches):			
Water Table Present?			Depth (inches):			V
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):	Wetland I	Hydrology Prese	nt? Yes NoX
Describe Recorded Data (str	ream gauge, m	nonitoring	well, aerial photos, pre	evious inspections), if ava	ailable:	
				·		
Remarks:						
1						

#### VEGETATION (Five Strata) – Use scientific names of

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

50% of total cover: \_\_\_\_0 \_\_\_ 20% of total cover:\_\_\_\_0

	a) – Use scientific na	A book ito	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30' )		Species?		
					Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
•					Total Number of Dominant
					Species Across All Strata: 2 (B)
					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 50 (A/B)
					Prevalence Index worksheet:
		0	= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =
apling Stratum (Plot size:	15')				FACW species x 2 =
					FAC species 33 x 3 = 99
					FACU species 70 x 4 = 280
					UPL species 5 x 5 = 25
					Column Totals: 108 (A) 404 (B)
•					Prevalence Index = B/A = 3.74
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size:					2 - Dominance Test is >50%
					3 - Prevalence Index is ≤3.0 <sup>1</sup>
					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
					data in Remarks or on a separate sheet)
·					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
i					1
·					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover	0	
lerb Stratum (Plot size:		20,0 0.	total oover		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
. Conoclinium coelestinum	/	3	N	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
Daucus carota		5	N	UPL	Continue Woods plants and discoursed wines
Schedonorus arundinaceus		70	Y	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
. Setaria pumila		30	Y	FAC	than 3 in. (7.6 cm) DBH.
					Shrub – Woody plants, excluding woody vines,
·					approximately 3 to 20 ft (1 to 6 m) in height.
					Herb – All herbaceous (non-woody) plants, including
					herbaceous vines, regardless of size, and woody
					plants, except woody vines, less than approximately 3
 0					ft (1 m) in height.
0 1					Woody vine – All woody vines, regardless of height.
l. <u> </u>			Total Cov		
			= Total Cov		
	50% of total cover: 54	20% of	total cover:	21.6	
Voody Vine Stratum (Plot size	:)				
•					
,					
,					Hydrophytic
		0	= Total Cov	or	Vegetation

US Army Corps of Engineers

Present?

Depth	Matrix			x Features	T 1	1 2	T t	Davisanta
inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 — 4	10YR 4/3	100					Loam	
4 <b>–</b> 18	10YR 3/2	90	10YR 4/6	10	С	M	Clay loam	Prominent redox
_								
_								
_								
		letion, RM=	Reduced Matrix, MS	S=Masked S	and Gra	ains.		L=Pore Lining, M=Matrix.
ydric Soil I	ndicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				<b>148)</b>	oast Prairie Redox (A16)
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		2)		<u> </u>	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b> Below Dark Surface	o (A11)	Redox Dark S					ery Shallow Dark Surface (TF12) other (Explain in Remarks)
	rk Surface (A12)	e (ATT)	Redox Depre		' /)			инег (Ехріані ін Кентатку)
_	ucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan		(F12) <b>(</b> (	I RR N		
	. 147, 148)	-1313 14,	MLRA 13		(1 12) (1	LIXIX IV,		
	leyed Matrix (S4)		☐ Umbric Surfa		LRA 13	6. 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
estrictive L	ayer (if observed):	Yes						
Type: Gra	vel							
Depth (inc	thes): 8						Hydric Soil	Present? Yes X No
emarks:			<del></del>				1 ,	
omamo								





Northeast Soil Profile

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

5/11/2021 6:59:17 PM

in

Case No(s). 21-0268-EL-BLN

Summary: Notice Notice Hillsboro-Millbrook 138 kV Line Rebuild Project Part 6 electronically filed by Tanner Wolffram on behalf of AEP Ohio Transmission Company, Inc.