APPENDIX C – DATA SHEETS

Project/Site: Highland Solar		City/Cou	nty: Buford/	Highland	Sampling Date: 1	2/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WAWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	Township, Ra	inge:		
Landform (hillside, terrace, etc.):		ا	Local relief (d	concave, convex, none):		
Slope (%): Lat: <u>39.066751</u>		Long:	83.789253		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percen	t slopes			NWI classif	ication: NAD83	
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? A	Are "Normal (Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrology	naturally prob	olematic? (If needed, ex	plain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showin	ıg samplin	g point lo	cations, transects	, important featu	res, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	o		Sampled A		No	
Remarks: This data is typical to point WAWet2: 39.066669, -83.	788256					
VEGETATION – Use scientific names of pla	ınts.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wor		
Quercus palustris Acer rubrum	30	Yes Yes	FACW FAC	Number of Dominant S Are OBL, FACW, or F	•	(A)
3.		100	17.0	Total Number of Domi		— (· ·)
4.				Across All Strata:	<u>5</u>	(B)
5.				Percent of Dominant S	Species That	
		=Total Cover		Are OBL, FACW, or F	AC: 80.0°	<u>%</u> (A/B)
Sapling/Shrub Stratum (Plot size:) 20	Yes	FACU	Prevalence Index wo		
Fagus grandifolia Lindera benzoin	40	Yes	FACW	Total % Cover of		<i>,</i> .
3.		100	17.011	OBL species 50		
4.				FACW species 60	0 x 2 = 120	<u> </u>
5.				FAC species 40	0 x 3 = 120)
	60 =	=Total Cover		FACU species 20		
Herb Stratum (Plot size:)				UPL species 0		
Carex lurida Smilax rotundifolia	10	Yes	OBL	Column Totals: 17	` ′	(B)
		<u>No</u>	<u>FAC</u>	Prevalence Index =	= B/A = <u>2.18</u>	
4.				Hydrophytic Vegetat	ion Indicators:	
5.					Hydrophytic Vegetation	on
6.				X 2 - Dominance Te		
7.				X 3 - Prevalence Inc	dex is ≤3.0 ¹	
8				l 	Adaptations ¹ (Provide	
9					s or on a separate sh	
10					ophytic Vegetation ¹ (E	. ,
Woody Vine Stratum (Plot size:	60 =	=Total Cover		¹ Indicators of hydric so be present, unless dis		
1.				Hydrophytic		
2		Total Cover		Vegetation	Y No	
Bounds (helds by helds)		- rotal Cover		Present? Yes_	No	
Remarks: (Include photo numbers here or on a sepa	rate sneet.)					

SOIL Sampling Point: WAWet1

Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 4/3	100	Goldi (moldi)		.,,,,,		Loamy/Clayey	romano
			7.5\(\D\.5\(\O\)					
5-13	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentration
			_		<u> </u>	· <u> </u>		
Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	 ∕/S=MasI	ked Sand	Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I		·	·					ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matı	rix (S4)			ıst Prairie Redox (A16)
— Histic Ep	ipedon (A2)		Sandy Red				Iron	-Manganese Masses (F12)
Black His	stic (A3)		Stripped M				Rec	l Parent Material (F21)
Hydrogei	n Sulfide (A4)		Dark Surfa	ice (S7)			Ver	y Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Oth	er (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)		<u> </u>	
Depleted	l Below Dark Surface	(A11)	X Depleted N	√atrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dai	k Surfac	e (F6)		³ Indicate	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [Dark Surf	face (F7))	wet	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	oressions	s (F8)		unle	ess disturbed or problematic.
Restrictive L	Layer (if observed):							
Type:								
Type: _ Depth (in Remarks: This data for	nches):							rs of Hydric Soils, Version 7.0, 2015
Type: _ Depth (in Remarks: This data for Errata. (http:/	m is revised from Mic						NRCS Field Indicate	
Type:	m is revised from Mic //www.nrcs.usda.gov/						NRCS Field Indicate	
Type:	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015
Type:	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015
Type:	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS red; check all that X Water-Sta	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicato	ary Indicators (minimum of two requiface Soil Cracks (B6)
Type:	m is revised from Mic //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of or Water (A1) ter Table (A2)	/Internet/F	red; check all that X Water-Sta Aquatic Fa	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx)	NRCS Field Indicato	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10)
Type: Depth (in Remarks: This data for Errata. (http://www.primary.lndic Surface Value High Wa Saturatio	m is revised from Mic //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua	/nrcs142 apply) ined Lea auna (B1 tic Plants	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicato Seconda Sur Dra Dry	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Type:	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	red; check all that X Water-Sta Aquatic Fa	apply) ined Lea auna (B1: tic Plants	ves (B9) 3) s (B14) Odor (C1	293.docx)	NRCS Field Indicator Seconda Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10)
Type:	m is revised from Mic //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plants Sulfide C	ves (B9) 3) s (B14) Odor (C1 eres on l	293.docx)	Seconda Sur Dra Dry X Cra ots (C3) Satisfactors	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Type:	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosphof Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ced Iron (ced))) Living Ro	Seconda Sur Dra Dry X Cra ots (C3) Sur Stu	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9
Type:	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) on Deposits (B2) onsits (B3)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ction in Ti) Living Ro	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 inted or Stressed Plants (D1)
Type: Depth (in Remarks: This data for Errata. (http://www.communication) IYDROLO Wetland Hyde Surface Water Management Sediment Drift Depth Algal Management Depth (in Depth Algal Management Depth (in Depth Algal Management) Iron Depth (in Remarks) IYDROLO Wetland Hyde Surface Water Management Drift Depth Algal Management Drift Depth (in Remarks)	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) t or Crust (B4)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1) tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface	ep2_0512 3) s (B14) Odor (C1 eres on led Iron (tion in Tick (C7)) Living Ro	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 onted or Stressed Plants (D1) omorphic Position (D2)
Type: Depth (in Remarks: Finis data for Errata. (http://www.primary India Surface Water March Ma	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ne is requi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ep2_0512 ves (B9) 3) s (B14) Odor (C1 eres on led Iron oftion in Title (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 onted or Stressed Plants (D1) omorphic Position (D2)
Type: Depth (in Remarks: This data for Errata. (http://www.primary Indic Surface Water M: Sedimen Drift Dep Algal Ma Iron Depi Inundation	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In	ne is requi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ep2_0512 ves (B9) 3) s (B14) Odor (C1 eres on led Iron oftion in Title (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 onted or Stressed Plants (D1) omorphic Position (D2)
Type: Depth (in Remarks: Fhis data for Errata. (http://www.communication.com/wetland Hydelication.com/wetland Hydelication.com/wetland Hydelication.com/wetland Hydelication.com/wetland High Was Saturation.com/wetland Water March Sedimen Drift Depthalication.com/wetland.com/we	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations:	ne is requi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ep2_0512 ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Tie (C7) a (D9) demarks)) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 onted or Stressed Plants (D1) omorphic Position (D2)
Type: Depth (in Remarks: This data for Errata. (http://www.communications.) TYDROLO Wetland Hyde Surface Water Mander M	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes	ne is requi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or V 38) Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ep2_0512 ves (B9) 3) s (B14) Odor (C1 eres on led Iron (tion in Tie (C7) a (D9) emarks)) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 onted or Stressed Plants (D1) omorphic Position (D2)
Type:	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes Present? Yes	nagery (B7 Surface (B	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data blain in R	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Stur (C6) Seconda Sur Sur Dra Dry X Cra	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Type: _ Depth (in Remarks: This data for Errata. (http:// DVPTIME DVPTIME	m is revised from Mic //www.nrcs.usda.gov/ //gradrology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes resent? Yes	nagery (B7 Surface (B	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1: tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat: blain in R Depth (in	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Second: Sur	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Type: Depth (in Remarks: This data for Frrata. (http:// DPOLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Mail Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water Water Table Saturation Princludes cap	m is revised from Mic //www.nrcs.usda.gov/ //gradrology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes resent? Yes	nagery (B7 Surface (E	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dats blain in R Depth (in	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) elemarks) nches): _ nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Satu (C6) X FAC	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Type: Depth (in Remarks: This data for Frrata. (http:// DPOLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Mail Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water Water Table Saturation Princludes cap	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes present? Yes collary fringe)	nagery (B7 Surface (E	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dats blain in R Depth (in	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) elemarks) nches): _ nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda Sur Dra Dry X Cra ots (C3) Satu (C6) X FAC	ary Indicators (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)

Project/Site: Highland Solar	c	ity/County:	Buford/Hig	hland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WBWet1
Investigator(s): M. Perkins, C. Brendel	Se	ction, Town	nship, Range	e:		
Landform (hillside, terrace, etc.):		Loca	al relief (con	cave, convex, none):_		
Slope (%): Lat: 39.065174		Long: <u>-83.7</u>	785329		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent slop	oes			NWI classif	ication: NA	
Are climatic / hydrologic conditions on the site typical for thi	is time of year	? Yes	s_X_	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrologysigni	ficantly disturb	ed? Are "l	'Normal Circ	umstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrologynatur	rally problemat	ic? (If ne	eded, expla	in any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site map s	showing sa	mpling p	ooint loca	tions, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	_	Is the Sar within a V	mpled Area Wetland?	YesX	No	
Remarks:						
VEGETATION – Use scientific names of plants.		ninant Ind	dicator			
				Dominance Test wor	ksheet:	
Quercus palustris	20 Y	es F	ACW	Number of Dominant S	Species That	
2. Quercus bicolor				Are OBL, FACW, or F	AC:	3(A)
3. Platanus occidentalis	10 N	No F		Total Number of Domi	•	4 (D)
4				Across All Strata:		4(B)
	90 =Total	Cover		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B)
Sapling/Shrub Stratum (Plot size:) 1.			<u> </u>	Prevalence Index wo	rkshoot:	
			'	Total % Cover of:		bv:
3.			-	OBL species 20		20
4.				ACW species 90) x 2 = 1	80
5				AC species 0		0
<u> </u>	=Total	Cover		FACU species 20		30
Herb Stratum (Plot size:)	20 V	·		JPL species 0 Column Totals: 13		0 80 (B)
Schoenoplectus tabernaemontani Rubus allegheniensis			OBL C	Prevalence Index =	` /	80 (B)
3.			7.00	Trevalence mack	2.10	
4.				- - - - - - - - - - - - - - - - - - -	on Indicators:	
5.				1 - Rapid Test for	Hydrophytic Vegeta	ation
6				X 2 - Dominance Te		
7			_	X 3 - Prevalence Inc		
8			-		Adaptations ¹ (Provi s or on a separate s	
9.					s or on a separate s	· ·
10	40 =Total	Cover	—— -			, , ,
Woody Vine Stratum (Plot size:)	10.01	00101		Indicators of hydric so be present, unless dis		
1				Hydrophytic		
2	-Total	Cover		Vegetation Present? Yes	Y No	
——————————————————————————————————————		Cover		Present? Yes_	<u> </u>	
Remarks: (Include photo numbers here or on a separate s	sneet.)					

SOIL Sampling Point: WBWet1

Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 4/3	100	Color (moist)		.,,,,		Loamy/Clayey	Nomano
			7.5\(\partial\)					
5-13	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
								<u></u>
			_		·	· <u> </u>		
Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	 ∕/S=MasI	ked Sand	d Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
lydric Soil I		·	·					ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matı	rix (S4)			st Prairie Redox (A16)
— Histic Ep	ipedon (A2)		Sandy Red				Iron	-Manganese Masses (F12)
Black His	stic (A3)		Stripped M		6)		Red	Parent Material (F21)
Hydrogei	n Sulfide (A4)		Dark Surfa	ace (S7)			Ver	y Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	icky Mine	eral (F1)			er (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	l Below Dark Surface	(A11)	X Depleted N	Matrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dai	rk Surfac	e (F6)		³ Indicato	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [Dark Surl	face (F7))	wetl	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	pressions	s (F8)		unle	ess disturbed or problematic.
Restrictive L	Layer (if observed):							
Type:								
Depth (ir Remarks: This data for	nches):	_						rs of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://	m is revised from Mic	_					NRCS Field Indicato	
Depth (in Remarks: This data for Errata. (http://	m is revised from Mic //www.nrcs.usda.gov/	_					NRCS Field Indicato	
Depth (in Remarks: Fhis data for Errata. (http://www.chi.am.)	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: Fhis data for Errata. (http://www.communications.com/procedure) Wetland Hyderimary Indications	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://www.prace.) Wetland Hydenson Surface Notice (in Surface.)	m is revised from Mic //www.nrcs.usda.gov/	/Internet/F	SE_DOCUMENTS red; check all that X Water-Sta	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicato	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6)
Depth (in Permarks: This data for Errata. (http://procedure) Wetland Hyderimary Indication Surface Value High Wa	m is revised from Mic //www.nrcs.usda.gov/ DGY drology Indicators: cators (minimum of or Water (A1) ter Table (A2)	/Internet/F	red; check all that X Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicato Seconda Surl	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10)
Depth (in Remarks: This data for Errata. (http:// IYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio	m is revised from Mic //www.nrcs.usda.gov/ OGY drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 itic Plant	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicato Seconda Suri Drai Dry	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2)
Depth (in Remarks: This data for Errata. (http://www.primary Indicuments of Surface Note of Surface	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	red; check all that X Water-Sta Aquatic Fa	apply) ined Lea auna (B1: tic Plants	ves (B9) 3) s (B14) Odor (C1	293.docx)	NRCS Field Indicato Seconda Surl Drai Dry X Cra	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10)
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Depth (in Remarks: This data for Errata. (http://www.mc.) IYDROLO Wetland Hyde Primary Indic Surface Notes the Saturation Water Model Sedimen Drift Dep	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosphof Reduc	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (ced Iron (ced))) Living Ro	Secondary	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Depth (in Remarks: This data for Errata. (http://www.mc.) IYDROLO Wetland Hyde Surface of High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) on (A3) on (A3) on (A3) on (A3) on (A3)	/Internet/F	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on lead Iron (ton in Titon)) Living Ro	Secondary Secondary Secondary Secondary Surfary Drystots (C3)	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1)
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Depth (in Remarks: This data for Strata. (http://www.primary.lndicular) Wetland Hyde Surface Water Michael Sedimen Drift Dep Algal Ma Iron Depi Inundation	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ne is requi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Odor (C1 eres on led Iron of tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondary Secondary Secondary Secondary Surfary Drystots (C3)	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) Juration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2)
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Depth (in Remarks: This data for Errata. (http:// IYDROLO Wetland Hyde Surface of High War Mark Mark Mark Mark Mark Mark Mark Ma	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations:	nagery (B ⁷ Surface (I	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck T) Gauge or V Gauge or V Gauge Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) demarks)) Living Ro (C4) Iled Soils	Secondary Secondary Secondary Secondary Surfary Drys X Cray Sturfary Sturfary Sturfary Secondary Secon	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) Juration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2)
Depth (in Remarks: This data for Errata. (http:// IYDROLO Wetland Hyde Primary Indic Surface North High Water More Sedimen Drift Dep Algal Mater Dependent Linundation Sparsely	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes	nagery (B ⁷ Surface (I	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks)) Living Ro (C4) Iled Soils	Secondary Secondary Secondary Secondary Surfary Drys X Cray Sturfary Sturfary Sturfary Secondary Secon	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) Juration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2)
Depth (in Remarks: This data for Errata. (http:// IYDROLO Wetland Hyde Surface V High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observ Surface Water	m is revised from Mic //www.nrcs.usda.gov/ drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes Present?	nagery (Bissing)	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc surface Well Data blain in R	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) lemarks) nches):nches): _) Living Ro (C4) Iled Soils	Secondary Secondary Secondary Secondary Surfary Drys X Cray Sturfary Sturfary Sturfary Secondary Secon	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: This data for Errata. (http://www.primary.lndic	m is revised from Mic //www.nrcs.usda.gov/ //gradrology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes resent? Yes	nagery (Bissing)	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	apply) ined Lea auna (B1: tic Plant: Sulfide C Rhizosph of Reduc n Reduc n Reduc Surface Well Dat: blain in R Depth (in	ves (B9) 3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) lemarks) nches):nches): _) Living Ro (C4) Iled Soils	Seconda	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: This data for Errata. (http://example.com//example.	m is revised from Mic //www.nrcs.usda.gov/ //gradrology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes resent? Yes	nagery (Bi	red; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 Other (Exp	apply) ined Lea auna (B1. titic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dats blain in R Depth (in	ves (B9) 3) s (B14) Ddor (C1 eres on led Iron (C7) a (D9) emarks) checks): _ nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda	rs of Hydric Soils, Version 7.0, 2015 ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
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Project/Site: Highland Solar	City/County: Buford/H	lighland	Sampling Date: <u>12/14/2017</u>
Applicant/Owner: Hecate Energy LLC		State: OH	Sampling Point: WAUp1
Investigator(s): M. Perkins, C. Brendel	Section, Township, Rar	nge:	
Landform (hillside, terrace, etc.):	Local relief (c	oncave, convex, none):_	
Slope (%): Lat: 39.067018	Long: <u>-83.789746</u>		Datum: NAD83
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent slopes		NWI classifi	ication: NA
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes X	No (If no, exp	lain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificant	tly disturbed? Are "Normal C		
Are Vegetation, Soil, or Hydrologynaturally p		plain any answers in Ren	
SUMMARY OF FINDINGS – Attach site map show		cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No X Wetland Hydrology Present? Yes No X	Is the Sampled Are within a Wetland?		No_X_
Remarks: Observations also typical to WBUp1: 39.065108, -83.785384			
VEGETATION – Use scientific names of plants.			
Absolut <u>Tree Stratum</u> (Plot size:) % Cove		Dominance Test work	ksheet:
1		Number of Dominant S Are OBL, FACW, or FA	Species That
		Total Number of Domi	
4.		Across All Strata:	nant Species 1 (B)
5.		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	=Total Cover	Are OBL, FACW, or FA	•
1		Prevalence Index wo	rksheet:
2.		Total % Cover of:	Multiply by:
3		OBL species 0	
4		FACW species 0	
5	=Total Cover	FAC species 0 FACU species 0	
Herb Stratum (Plot size:)		UPL species 100	
1. Glycine max 100	Yes UPL	Column Totals: 100	
2.		Prevalence Index =	``
3	<u> </u>	Undrambatic Vocatati	to a to diantana.
4		Hydrophytic Vegetati 1 - Rapid Test for	Hydrophytic Vegetation
		2 - Dominance Tes	
7.		3 - Prevalence Ind	
8.			Adaptations ¹ (Provide supporting
9.		data in Remarks	s or on a separate sheet)
10.		Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	=Total Cover	¹ Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.
1	[Hydrophytic	
2.		Vegetation	
	=Total Cover	Present? Yes_	No <u>X</u>
Remarks: (Include photo numbers here or on a separate sheet	i.)		

SOIL Sampling Point: WAUp1

Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 4/3	100					Loamy/Clayey	
5-13	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
					_	_		
¹ Type: C=C	 oncentration, D=Dep	Letion, RM	=Reduced Matrix, N	—— //S=Masl	ed Sand	Grains.	2Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	· · · · · · · · · · · · · · · · · · ·	·					rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matı	ix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-l	Manganese Masses (F12)
Black His	stic (A3)		Stripped M	1atrix (S6	5)		Red	Parent Material (F21)
— Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)		_	
 Depleted	l Below Dark Surface	e (A11)	X Depleted N	Matrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dai	rk Surfac	e (F6)		³ Indicator	rs of hydrophytic vegetation and
 Sandy M	lucky Mineral (S1)		Depleted [Dark Surf	face (F7)	ı	wetla	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pressions	s (F8)		unles	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present	? Yes_X_ No
	m is revised from Mi //www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
This data for Errata. (http:	//www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
This data for Errata. (http:	//www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
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This data for Errata. (http://www.http://www	//www.nrcs.usda.gov DGY drology Indicators: cators (minimum of c	/Internet/F	SE_DOCUMENTS	/nrcs142	p2_0512	293.docx)	<u>Seconda</u>	ry Indicators (minimum of two required
This data for Errata. (http://www.http://www	J/www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co	/Internet/F	SE_DOCUMENTS ired; check all that Water-Sta	apply)	ves (B9)	293.docx)	Secondal Surfa	ry Indicators (minimum of two required ace Soil Cracks (B6)
This data for Errata. (http://www.http://www	JOGY drology Indicators: cators (minimum of compater (A1) tter Table (A2)	/Internet/F	ired; check all that Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx)	<u>Seconda</u> Surfa Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) aage Patterns (B10)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio	OGY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx)	Secondal Surfa Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) aage Patterns (B10) Geason Water Table (C2)
HYDROLO Wetland Hyd Primary India Surface ' High Wa Saturatic Water M	JOGY drology Indicators: eators (minimum of comparts) Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plants	ves (B9) 3) s (B14) Odor (C1	(293.docx)	Secondal Surfa Drair Dry-5	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen	John (A3) arks (B1) order John (A2) order John (A3) order John (B1) order John (B1) order John (B2)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 titic Plants Sulfide C	ves (B9) 3) s (B14) Odor (C1 eres on I	(293.docx)	Secondal Surfa Drair Dry-S Cray ots (C3) Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep	drology Indicators: cators (minimum of compared (Ma)) arks (B1) at Deposits (B2) assists (B3)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosphof Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I	(293.docx)	Secondal Surfa Drair Cray ots (C3) Satur	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	drology Indicators: cators (minimum of compared (A2) on (A3) arks (B1) on the Deposits (B2) on the Deposits (B3) art or Crust (B4)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti	(293.docx)	Secondal Surfa Drair Dry-S Cray Ots (C3)	ry Indicators (minimum of two required ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of control (Ma) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) osits (B5)	nternet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ep2_0512 vves (B9) 3) s (B14) Odor (C1 eres on I ded Iron (tion in Ti (C7)	(293.docx)	Secondal Surfa Drair Dry-S Cray Ots (C3)	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
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Project/Site: Highland Solar		City/Cou	nty: Buford/	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WCWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	ownship, Ra	ange:		
Landform (hillside, terrace, etc.):			Local relief (d	concave, convex, none):		
Slope (%): Lat: <u>39.062583</u>		Long:	83.768422		Datum: <u>NAD83</u>	
Soil Map Unit Name: Westboro-Schaffer silt loams, 0	to 2 percent s	lopes		NWI classif	ication: PEM1A	
Are climatic / hydrologic conditions on the site typical	for this time of	f year?	Yes_X_	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly d	listurbed? A	Are "Normal (Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrology_	='		If needed, ex	κplain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site m	ap showin	g samplin	g point lo	ocations, transects,	, important fea	tures, etc.
Hydric Soil Present? Yes X N	lo		Sampled A		No	
Remarks:		I				
VEGETATION – Use scientific names of pla	onto					
VEGETATION – Ose scientific flames of pic	Absolute	Dominant	Indicator	<u> </u>		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1. Acer rubrum 2.	60	Yes	FAC	Number of Dominant S Are OBL, FACW, or F	•	2 (A)
3.				Total Number of Domi Across All Strata:	nant Species	2 (B)
5.				Percent of Dominant S	 Species That	(5)
Sapling/Shrub Stratum (Plot size:	60 =	Total Cover		Are OBL, FACW, or F.	•	0.0% (A/B)
1	./			Prevalence Index wo	rksheet:	
2.				Total % Cover of	: Multiply	by:
3.				OBL species 70	x 1 =	70
4				FACW species 0		0
5		Total Cover		FAC species 60 FACU species 0		1 <u>80</u> 0
Herb Stratum (Plot size:)		- Total Cover		UPL species 0		0
1. Scirpus cyperinus	70	Yes	OBL	Column Totals: 13		250 (B)
2.				Prevalence Index =	= B/A = 1.92	
3.					! ! ! A	
5.				Hydrophytic Vegetati	Hydrophytic Veget	ation
6.				X 2 - Dominance Te		ation
7.				X 3 - Prevalence Inc		
8.					Adaptations ¹ (Prov	
9					s or on a separate	
10					ophytic Vegetation ¹	
Woody Vine Stratum (Plot size:		=Total Cover		¹ Indicators of hydric so be present, unless dis		
1.	· 			Hydrophytic		
2				Vegetation		
		Total Cover		Present? Yes_	No	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					
						ı

SOIL Sampling Point: WCWet1

	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
1-12	10YR 6/2	60	7.5YR 5/8	40	С	M	Loamy/Clayey	Prominent redox concentrations
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, N	/IS=Mask	ked Sand	l Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I								s for Problematic Hydric Soils ³ :
Histosol (Sandy Gle		ix (S4)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His	, ,		Stripped M	•	5)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu				Other	(Explain in Remarks)
2 cm Mu	, ,	/A11\	Loamy Gle	-				
	Below Dark Surface rk Surface (A12)	(A11)	X Depleted N Redox Dar	,	•		³ Indicator	s of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted D					nd hydrology must be present,
	cky Peat or Peat (S3)	1	Redox Dep					s disturbed or problematic.
	_ayer (if observed):			7,000,011	, (1 0)	Т	dilloo	e distance of problematic.
Type:	Layer (II Observeu).							
Depth (in	ches).						Hydric Soil Present	? Yes X No
Remarks:			_					
HYDROLO	GV							
	drology Indicators:							
-	ators (minimum of or			1.				
		ne is require	ed; check all that a		ves (B0)			y Indicators (minimum of two required
X Surface \	Water (A1)	<u>ne is require</u>	Water-Stai	ned Lea	` '		Surfa	ce Soil Cracks (B6)
X High Wat	Water (A1) ter Table (A2)	ne is require	Water-Stai	ned Lea una (B1	3) ` ´		Surfa Drain	ce Soil Cracks (B6) age Patterns (B10)
X High Wat	Water (A1) ter Table (A2) n (A3)	<u>ne is require</u>	Water-Stai Aquatic Fa True Aqua	ned Lea una (B1: tic Plants	3) s (B14)		Surfa Drain Dry-S	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2)
X High Water Mater Mater Mater Mater	Water (A1) ter Table (A2) n (A3) arks (B1)	ne is require	Water-Stai Aquatic Fa True Aqua X Hydrogen	ined Lea iuna (B1: tic Plants Sulfide C	3) s (B14) Odor (C1		Surfa Drain Dry-S X Crayfi	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8)
X High Wat Saturatio Water Ma Sedimen	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	ne is require	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R	ned Lea una (B1 tic Plants Sulfide C thizosph	3) s (B14) Odor (C1 eres on I	iving Ro	Surfar Drain: Dry-S X Crayfi oots (C3) Satur	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
X High Wat Saturatio Water Ma Sedimen Drift Dep	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	ne is require	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R	ned Lea una (B1 tic Plants Sulfide C Rhizospho of Reduc	3) s (B14) Odor (C1) eres on I ced Iron (iving Ro	Surfa Drain.	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
X High Wat Saturatio Water Ma Sedimen Drift Dep	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	ne is require	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro	ned Lea una (B1 tic Plants Sulfide C Rhizospho of Reduc n Reduc	3) s (B14) Odor (C1 eres on I ed Iron (iving Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R	ned Lea luna (B1: tic Plants Sulfide C thizospho of Reduc n Reduc Surface	3) s (B14) Odor (C1) eres on I ed Iron (tion in Ti (C7)	iving Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	nagery (B7)	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	ined Lea iuna (B1: Sulfide C Rhizospho of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)	iving Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In	nagery (B7)	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	ined Lea iuna (B1: Sulfide C Rhizospho of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)	iving Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave	nagery (B7) Surface (B8	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V	ined Lea iuna (B1: Sulfide C Rhizospho of Reduc n Reduc Surface Well Data	3) s (B14) Ddor (C1 eres on I eed Iron (tion in Ti (C7) a (D9) emarks)	iving Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observ	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Im Vegetated Concave vations: er Present? Yes	nagery (B7) Surface (B8 sX_	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or \ Other (Exp	ned Lea nuna (B1: tic Plants Sulfide C thizospho of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1 eres on I eed Iron (tion in Ti (C7) a (D9) emarks)	Living Ro	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Wate	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Invegetated Concave vations: er Present? Yes	nagery (B7) Surface (B8 sX_	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea tic Plants Sulfide C thizosphof Reduct n Reduct Surface Well Data Jain in R	3) s (B14) Odor (C1 eres on I eed Iron (tion in Ti (C7) a (D9) emarks) nches):nches):nches): _	Living Ro C4) Iled Soils	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes	nagery (B7) Surface (B8 s <u>X</u>	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea tic Plants Sulfide C thizospho of Reduc on Reduc Surface Well Data Jain in R Depth (in	3) s (B14) Odor (C1 eres on I eed Iron (tion in Ti (C7) a (D9) emarks) nches):nches):nches): _	Living Ro C4) Iled Soils 12 0	Surfa Drain: Dry-S X Crayfi oots (C3) Saturt Stunte G (C6) X FAC-I	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatio Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes	nagery (B7) Surface (B8 s X s X	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea iuna (B1: tic Plants Sulfide C thizosphi of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in	s (B14) Solution (C1) Solution in Ti (C7) Solution (C7) Solution in Ti (C7) Solution i	Living Ro C4) Illed Soils 12 0	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatio Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Yes resent? Yes resent? Yes	nagery (B7) Surface (B8 s X s X	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea iuna (B1: tic Plants Sulfide C thizosphi of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in	s (B14) Solution (C1) Solution in Ti (C7) Solution (C7) Solution in Ti (C7) Solution i	Living Ro C4) Illed Soils 12 0	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Yes resent? Yes resent? Yes	nagery (B7) Surface (B8 s X s X	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea iuna (B1: tic Plants Sulfide C thizosphi of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in	s (B14) Solution (C1) Solution in Ti (C7) Solution (C7) Solution in Ti (C7) Solution i	Living Ro C4) Illed Soils 12 0	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
X High Water May Sedimen Drift Dep Algal Mater Ton Deport Inundation Sparsely Field Observing Surface Water Table Saturation Professional Control of the Co	Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Yes resent? Yes resent? Yes	nagery (B7) Surface (B8 s X s X	Water-Stai Aquatic Fa True Aqua X Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	ned Lea iuna (B1: tic Plants Sulfide C thizosphi of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in	s (B14) Solution (C1) Solution in Ti (C7) Solution (C7) Solution in Ti (C7) Solution i	Living Ro C4) Illed Soils 12 0	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WDWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	rownship, Ra	ange:	_	
Landform (hillside, terrace, etc.):		!	Local relief (d	concave, convex, none):		
Slope (%): Lat: <u>39.063557</u>		Long:	83.767008		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	t slopes			NWI classif	ication:	
Are climatic / hydrologic conditions on the site typical for	or this time o	of year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly o	disturbed? A	ا Are "Normal	Circumstances" present?	Yes X No)
Are Vegetation, Soil, or Hydrologyr	naturally prob	olematic? (If needed, ex	ιρlain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showir	ng samplin	ıg point lo	ocations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X No	 o	Is the	Sampled A	rea		
	°	withir	n a Wetland′	? Yes X	No	
Wetland Hydrology Present? Yes X No	<u> </u>					
Remarks:	enne					
Observations typical for WDWet2: 39.064096, -83.766	3995					
VEGETATION – Use scientific names of pla						
VEGETATION 000 0010111110 11. P.E.	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1. Acer rubrum	30	Yes	FAC	Number of Dominant	•	- (1)
2. Liquidambar styraciflua	20	Yes	FACW	Are OBL, FACW, or F		5 (A)
Ulmus americana Fagus grandifolia	20	Yes Yes	FACW FACU	Total Number of Domi	•	6 (B)
5.		165	FACO		-	6 (B)
	100 =	=Total Cover		Percent of Dominant S Are OBL, FACW, or F		3.3% (A/B)
Sapling/Shrub Stratum (Plot size:)					<u></u> ` ,
1. Lindera benzoin	50	Yes	FACW	Prevalence Index wo	orksheet:	
2.				Total % Cover of	: Multiply	by:
3				OBL species30		30
4				FACW species 10		200
5		T-t-l Caver		FACILITATION 30		90
<u>Herb Stratum</u> (Plot size:)	50 =	=Total Cover		FACU species 20 UPL species 0		80 0
1. Carex lurida	30	Yes	OBL	Column Totals: 18		100 (B)
2.		100	CDL	Prevalence Index :	`	(-,
3.				11010101101		
4.				Hydrophytic Vegetat	ion Indicators:	
5.					Hydrophytic Vegeta	ation
6.				X 2 - Dominance Te	est is >50%	
7				X 3 - Prevalence Inc		
8					Adaptations ¹ (Provi	
9					s or on a separate	<i>'</i>
10		T / 10		l 	ophytic Vegetation ¹	, , ,
Weedy Vino Stratum (Plat size)	30 =	=Total Cover		¹ Indicators of hydric so		
Woody Vine Stratum (Plot size:)	,			be present, unless dis	turbed or problema	tic.
1. 2.				Hydrophytic Vegetation		
		=Total Cover		Present? Yes	X No	
Remarks: (Include photo numbers here or on a separ				-		-
Buttressing on the Am. Beech in the wetland	dio e,					

SOIL Sampling Point: WDWet1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-3	10YR 4/3	100					Loamy/Clayey	
3-12	10YR 6/2	70	7.5YR 5/8	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentration
						<u> </u>		
Type: C=Co	 oncentration, D=Dep	etion, RM	=Reduced Matrix. I	 MS=Masl	ked Sand	Grains.	2Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I			•					rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			st Prairie Redox (A16)
	ipedon (A2)		Sandy Re				Iron-	Manganese Masses (F12)
Black His			Stripped N	latrix (S6	6)			Parent Material (F21)
— Hydrogei	n Sulfide (A4)		Dark Surfa	•	•			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	, ,	eral (F1)			r (Explain in Remarks)
2 cm Mu			Loamy Gle					,
	Below Dark Surface	(A11)	X Depleted I	-				
	rk Surface (A12)	()	Redox Da				³ Indicato	rs of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted I			ı		and hydrology must be present,
	cky Peat or Peat (S3	5)	Redox De					ss disturbed or problematic.
Restrictive L	_ayer (if observed):							
Type:								
Depth (in Remarks: This data for	<u> </u>	-						Yes X No sof Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators:	/Internet/F	SE_DOCUMENTS	s/nrcs142			NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: ators (minimum of c	/Internet/F	SE_DOCUMENTS	apply)	2p2_0512	293.docx	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
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Depth (in Permarks: This data for Errata. (http://www.permary.lndicSurface Name and the permary lndicSurface Name a	m is revised from Mi //www.nrcs,usda.gov GY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicator Seconda Surfa	ry Indicators (minimum of two requirece Soil Cracks (B6) nage Patterns (B10)
Depth (in Permarks: This data for Errata, (http://www.primary.lndicSurfaceHigh WaSaturatio	GY drology Indicators: eators (minimum of content (A1) ter Table (A2) in (A3)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 atic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicator Seconda Surfa Drair Dry-	ry Indicators (minimum of two requirace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyde Surface Volume High Watan Saturation Water Mi	GY drology Indicators: eators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicator Seconda Surfa Drair Dry- X Cray	ry Indicators (minimum of two requirace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyde Primary Indic Surface V High Wa Saturatio Water Mare Mare Mare Mare Mare Mare Mare Ma	GY drology Indicators: eators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I	293.docx	NRCS Field Indicator Seconda Surfa Drai Dry- X Cray ots (C3) Satu	ry Indicators (minimum of two requirence Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9
Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyden Surface Water Market Mark	m is revised from Min//www.nrcs.usda.gov GY drology Indicators: cators (minimum of control (A2) ter Table (A2) ter Table (A2) ter (A3) arks (B1) t Deposits (B2) osits (B3)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Seconda	ry Indicators (minimum of two requirence Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyden Surface (high Wassaturation Water Marker Marke	m is revised from Minimum of control (A2) and (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Ro	Seconda Surf. Drain Dry. X Cray ots (C3) Stun Geo	ry Indicators (minimum of two requirements of Cacks (B6) mage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (in Remarks: This data for Errata, (http:// HYDROLO Wetland Hyde Primary Indic Surface V High Wa Saturatio Water Mater	m is revised from Min//www.nrcs.usda.gov GY Grology Indicators: cators (minimum of control (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Seconda Surf. Drain Dry. X Cray ots (C3) Stun Geo	ry Indicators (minimum of two requirence Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
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Project/Site: Highland Solar		City/Cour	nty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WDUp1
Investigator(s): M. Perkins, C. Brendel		Section, T	ownship, Ra	inge:		
Landform (hillside, terrace, etc.):		ι	∟ocal relief (d	concave, convex, none):_		
Slope (%): Lat: <u>39.063463</u>		Long:8	83.7669		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	slopes			NWI classifi	ication:	
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrologysi	ignificantly c	listurbed? A	رد "Normal (Dircumstances" present?	Yes X No	·
Are Vegetation, Soil, or Hydrologyna				κplain any answers in Rer		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects,	important feat	ures, etc.
Hydric Soil Present? Yes X No	X X		Sampled A		No X	
Remarks:						
VEGETATION – Use scientific names of plan			• • • • • • • • • • • • • • • • • • • •			
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1. Fagus grandifolia	40	Yes	FACU	Number of Dominant S		
2. Carya ovata	20	Yes	FACU	Are OBL, FACW, or FA	•	0 (A)
3.				Total Number of Domi	nant Species	
4				Across All Strata:		3 (B)
5		T-t-l Cover		Percent of Dominant S		00/ (A/D)
Sapling/Shrub Stratum (Plot size:)	60 =	=Total Cover		Are OBL, FACW, or FA	AC: 0.	0% (A/B)
1				Prevalence Index wo		
2.				Total % Cover of:		bv:
3.				OBL species 0		0
4.				FACW species 0	x 2 =	0
5.				FAC species 0	x 3 =	0
		=Total Cover		FACU species 90	x 4 = 3	60
Herb Stratum (Plot size:)	_			UPL species 0	x 5 =	0
1. Rosa multiflora	30	Yes	FACU	Column Totals: 90	`/	60 (B)
2.				Prevalence Index =	= B/A = <u>4.00</u>	
3						
4				Hydrophytic Vegetati		••
5.					Hydrophytic Vegeta	ation
6.				2 - Dominance Te 3 - Prevalence Ind		
7 8.					aex is ≤3.0 Adaptations¹ (Provi	de sunnortina
				l —	s or on a separate	
10.					ophytic Vegetation ¹	·
10	30 =	Total Cover		¹ Indicators of hydric so		
Woody Vine Stratum (Plot size:)				be present, unless dist		
1				Hydrophytic		
2.				Vegetation		
		Total Cover		Present? Yes_	NoX	_
Remarks: (Include photo numbers here or on a separa Buttressing on the Am. Beech in the upland is reduced	,	l area				

SOIL Sampling Point: WDUp1

Depth	Matrix		Redo	x Featur					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
1-3	10YR 4/3	100					Loamy/Clayey		
3-12	10YR 6/2	70	7.5YR 5/8	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concen	itrations
		_		_		_			
Type: C=Co	oncentration, D=Dep	etion, RM	=Reduced Matrix, N	 //S=Masl	 ked Sand	Grains.	²Locatio	n: PL=Pore Lining, M=Matrix.	
Hydric Soil			·					rs for Problematic Hydric S	•
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			st Prairie Redox (A16)	
	pipedon (A2)		Sandy Red				Iron-	Manganese Masses (F12)	
Black His			Stripped M	latrix (S6	6)			Parent Material (F21)	
— Hydroge	n Sulfide (A4)		Dark Surfa	ce (S7)	•			Shallow Dark Surface (F22)	
_	Layers (A5)		Loamy Mu	, ,	eral (F1)			er (Explain in Remarks)	
2 cm Mu			Loamy Gle					,	
	l Below Dark Surface	(A11)	X Depleted I	-					
	ark Surface (A12)	,	Redox Dai				³ Indicato	rs of hydrophytic vegetation a	nd
	lucky Mineral (S1)		Depleted [)		and hydrology must be preser	
	cky Peat or Peat (S3	5)	Redox De		` '			ss disturbed or problematic.	•
Restrictive I	Layer (if observed):								
	•								
Type:									
Depth (ir Remarks: This data for	· · · · · · · · · · · · · · · · · · ·	-						rs of Hydric Soils, Version 7.0	No
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicato		
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicato		
Depth (in Remarks: This data for Errata. (http://dx.	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicato		
Depth (in Permany) Remarks: This data for Errata. (http://www.defand.com/defa	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of c	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicato) Seconda	rs of Hydric Soils, Version 7.0	, 2015
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Depth (in Permarks: This data for Errata, (http://www.primary.lndic	m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of control (Mater (A1)) tter Table (A2) on (A3)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicato) Seconda Surf Drai Dry-	ary Indicators (minimum of two ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)	, 2015
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Depth (in Remarks: This data for Errata. (http:: HYDROLO Wetland Hyde Primary India Surface Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obsert Surface Water Table Saturation Period (includes cap	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of company of co	magery (B Surface (I s	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or ' B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) chees): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) FAC	ary Indicators (minimum of two ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Image atted or Stressed Plants (D1) morphic Position (D2)	, 2015

Project/Site: Highland Solar	City/County: Bufc	ord/Highland	Sampling Date: 12/14/2017
Applicant/Owner: Hecate Energy LLC		State: OH	Sampling Point: WEWet1
Investigator(s): M. Perkins, C. Brendel	Section, Township,	Range:	
Landform (hillside, terrace, etc.):	Local relie	ef (concave, convex, none):_	
Slope (%): Lat: 39.07472	Long: <u>-83.76700</u>	9	Datum: NAD83
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent slopes		NWI classifi	ication:
Are climatic / hydrologic conditions on the site typical for this til	me of year? Yes X	No (If no, exp	lain in Remarks.)
Are Vegetation, Soil, or Hydrologysignification	ntly disturbed? Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed	, explain any answers in Rer	narks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point	t locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sample within a Wetla		No
Remarks:			
VEGETATION – Use scientific names of plants.			
Absol	ute Dominant Indicato	r l	1
Tree Stratum (Plot size:) % Co		Dominance Test wor	ksheet:
1 Liquidambar styraciflua 30		_ Nambor of Bommant o	'
2. Acer rubrum 50 3. Ulmus americana 20		Are OBL, FACW, or FA	`` <i>`</i>
3. Olmus americana 20	Yes FACW	Total Number of Domi Across All Strata:	nant Species 5 (B)
5.		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	=Total Cover	Are OBL, FACW, or FA	•
1		Prevalence Index wo	 rksheet:
2.		Total % Cover of:	Multiply by:
3.		OBL species 50	x 1 = 50
4		FACW species80	
5	=Total Cover	FAC species 50	
Herb Stratum (Plot size:)		FACU species 0 UPL species 0	
1. Carex lurida 50	Yes OBL	Column Totals: 18	
2. Elymus virginicus 30	Yes FACW	Prevalence Index =	
3		_	
4		Hydrophytic Vegetati	
5		1 - Rapid Test for X 2 - Dominance Te	Hydrophytic Vegetation
7		X 3 - Prevalence Ind	
8.		_	Adaptations ¹ (Provide supporting
9.		data in Remark	s or on a separate sheet)
10		Problematic Hydro	ophytic Vegetation ¹ (Explain)
	=Total Cover	¹ Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.
1.		Hydrophytic	
2		_ Vegetation	
	=Total Cover	Present? Yes_	No
Remarks: (Include photo numbers here or on a separate she	et.)		

SOIL Sampling Point: WEWet1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		<u> </u>						
¹ Type: C=Co	oncentration, D=Dep	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		rix (S4)			t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His	` '		Stripped M	•	6)			Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa				Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	l Below Dark Surface	: (A11)	X Depleted N	∕atrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	()	Redox Dep	oression	s (F8)		unles	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type: _								
Depth (ir Remarks: This data for	· · ·	_						s of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicator	
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of c	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of co	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicator Seconda	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ace Soil Cracks (B6)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface High Wa	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx)	NRCS Field Indicator SecondaSurfa	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio	m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of company of co	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-3	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1	(293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-{ X Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wat Saturatio Water M Sedimen	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I	(293.docx)	Seconda Surfa Drair Dry-3 X Cray ots (C3) SACONDA SACO	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of control of co	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro (C4)	Seconda Surfa Drair Dry- X Cray ots (C3) Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of company) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Ro (C4)	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro (C4)	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of company	ne is requ	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck 7) Gauge or \	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of company) ter Table (A2) on (A3) arks (B1) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave	ne is requ	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck 7) Gauge or \	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of company) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations:	ne is reques nagery (B'	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck T) Gauge or NB8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of company) ter Table (A2) on (A3) arks (B1) arks (B1) art Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) demarks)) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary Indice Surface High Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Water Table	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of company) water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yee	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck T) Gauge or No X No X	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-3 X Cray ots (C3) Satu (C6) FAC	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of complete (A2) on (A3) arks (B1) arks (B1) arks (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Ye resent? Ye resent?	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck T) Gauge or No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Seconda Surfa Drair Dry-5 X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of complete (A2) on (A3) arks (B1) arks (B1) arks (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Ye resent? Ye resent?	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck 7) Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surfa Drair Dry- X Cray ots (C3) Satu Stun (C6) FAC	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Receivers	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of complete (A2) on (A3) arks (B1) on (A3) arks (B1) on (B4) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye present? Ye present? Ye polllary fringe)	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck 7) Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surfa Drair Dry- X Cray ots (C3) Satu Stun (C6) FAC	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of complete (A2) on (A3) arks (B1) on (A3) arks (B1) on (B4) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye present? Ye present? Ye polllary fringe)	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck 7) Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surfa Drair Dry- X Cray ots (C3) Satu Stun (C6) FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) anage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)

Project/Site: Highland Solar		_ City/Cour	nty: Buford/H	lighland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WEUp1
Investigator(s): M. Perkins, C. Brendel		_Section, Te	ownship, Ran	nge:		
Landform (hillside, terrace, etc.):		L	ocal relief (co	oncave, convex, none)	:	
Slope (%): Lat: 39.074688	<u> </u>	Long: <u>-</u> ε	33.766655		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent si	lopes			NWI class	ification:	
Are climatic / hydrologic conditions on the site typical for	this time of y	year? `	Yes X	No (If no, ex	—— φlain in Remarks.)	
Are Vegetation, Soil, or Hydrologysig	gnificantly dis					'
Are Vegetation, Soil, or Hydrologyna						
SUMMARY OF FINDINGS – Attach site map						ures, etc
Hydrophytic Vegetation Present? Yes No	X	Is the	Sampled Are	ea		
Hydric Soil Present? Yes X No			a Wetland?		No_X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
VEGETATION – Use scientific names of plant			· · · · · · · · · · · ·			
		Dominant Species?	Indicator Status	Dominance Test wo	orksheet:	
1. Carya ovata	20	Yes	FACU	Number of Dominant		
2. Acer rubrum	20	Yes	FAC	Are OBL, FACW, or	•	2 (A)
3. Quercus rubra	10	Yes	FACU	Total Number of Don	ninant Species	
4.				Across All Strata:	•	5 (B)
5.				Percent of Dominant	•	
, -	50 =T	Total Cover		Are OBL, FACW, or	FAC: 40	.0% (A/B)
Sapling/Shrub Stratum (Plot size:)			-			
1		 ·		Prevalence Index w		·
2			[Total % Cover of		
3			 [0
5.		·				20
		Total Cover		· -		20
Herb Stratum (Plot size:)		0.0.		-		0
1. Rosa multiflora	50	Yes	FACU			40 (B)
2. Toxicodendron radicans	20	Yes	FAC	Prevalence Index	= B/A = 3.67	
3.						
4				Hydrophytic Vegeta		
5					or Hydrophytic Vegeta	ation
6				2 - Dominance T		
7				3 - Prevalence Ir		
8		 .	—— I		al Adaptations ¹ (Provi rks or on a separate s	
9					Irophytic Vegetation ¹	·
10	70 =T	Total Cover	 [
<u>—</u> <u>Woody Vine Stratum</u> (Plot size:)		Olai Covei		¹ Indicators of hydric s be present, unless di		
1			F		Sturbed or problema.	.10.
2.				Hydrophytic Vegetation		
	=T	Total Cover		Present? Yes	No X	
Remarks: (Include photo numbers here or on a separat						-
(0 0,					

SOIL Sampling Point: WEUp1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentration
				_		_		
					_			
Type: C=C	 oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	²Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicato	rs for Problematic Hydric Soils ³
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			st Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron	-Manganese Masses (F12)
Black His	stic (A3)		Stripped M	latrix (S6	6)		Red	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Oth	er (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	Below Dark Surface	e (A11)	X Depleted	Matrix (F	3)		_	
Thick Da	rk Surface (A12)		Redox Dai	k Surfac	e (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7))	wetl	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox Dep	oression	s (F8)		unle	ss disturbed or problematic.
Restrictive I	_ayer (if observed):							
Tunai								
Type:								
Depth (ir Remarks: This data for	· · ·	_						rs of Hydric Soils, Version 7.0, 201
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicato	
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicato	
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicato	
Depth (in Depth (in Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of c	//Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx	NRCS Field Indicato) Seconda	rs of Hydric Soils, Version 7.0, 201
Depth (ir Remarks: This data for Errata. (http: IYDROLO Wetland Hyden Primary India	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of c	//Internet/F	SE_DOCUMENTS ired; check all that Water-Sta	/nrcs142 apply) ined Lea	ves (B9)	293.docx	NRCS Field Indicato) SecondaSurf	rs of Hydric Soils, Version 7.0, 201 ary Indicators (minimum of two requace Soil Cracks (B6)
Depth (ir Permarks: This data for Errata. (http: IYDROLO Wetland Hyder Primary India Surface High Wa	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	//Internet/F	ired; check all that Water-Sta Aquatic Fa	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx	NRCS Field Indicato) Seconda Surf	rs of Hydric Soils, Version 7.0, 201 ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of company of com	//Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx	NRCS Field Indicato) Seconda Surl Drai Dry	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Depth (in Permarks: This data for Errata. (http: AYDROLO	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: eators (minimum of company of com	//Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1)	NRCS Field Indicato) Seconda Surf Drai Dry- Cray	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Vish Burrows (C8)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of company of com	//Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I) Living Ro	NRCS Field Indicato Seconda Surf Drai Dry- Cray ots (C3) Satu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (C
Depth (in Permarks: This data for Errata. (http: HYDROLO Wetland Hyde Surface High Wa Saturatic Water M Sedimen Drift Dep	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3)	//Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Rc	Seconda Surf Drai Dry Cray ots (C3) Stur	ary Indicators (minimum of two regace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of company) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4)	//Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron () Living Rc	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep	m is revised from Mi //www.nrcs.usda.gov GGY drology Indicators: cators (minimum of company) Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	n/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Rc	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two regace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1)
Depth (in Remarks: This data for Errata. (http: IYDROLO Wetland Hyde Primary Indice Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of company of com	nne is requ	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or V	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Illed Soils	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aerial III Vegetated Concave	nne is requ	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or V	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Illed Soils	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2)
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Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of control (Mater (A1)) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye	magery (B	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) demarks)) Living Ro (C4) Illed Soils	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table	m is revised from Mi //www.nrcs.usda.gov GGY drology Indicators: cators (minimum of company) water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Yee	magery (B'	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or No B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surf Drai Dry Cray ots (C3) Satu Stur Geo FAC	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2) c-Neutral Test (D5)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of company of co	magery (B'	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or No B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar Surf Drai Dry- Cray Stur Stu	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Conted or Stressed Plants (D1) morphic Position (D2) t-Neutral Test (D5)
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hyden Surface High Water Mater Mater Mater Drift Dependent Sparsely Field Obser Surface Water Table Saturation P (includes cap	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of company of co	magery (B's Surface (I	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) chees): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surf Drai Dry Cray ots (C3) Satu Stur FAC	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2) c-Neutral Test (D5)
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hyden Surface High Water Mater Mater Mater Drift Dependent Sparsely Field Obser Surface Water Table Saturation P (includes cap	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of company) water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aerial II Vegetated Concave vations: er Present? Yee Present? Yee resent? Yee	magery (B's Surface (I	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) chees): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surf Drai Dry Cray ots (C3) Satu Stur FAC	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2) c-Neutral Test (D5)
Depth (in Remarks: This data for Errata. (http: HYDROLO Wetland Hyden Surface High Water Mater Mater Mater Drift Dependent Sparsely Field Obser Surface Water Table Saturation P (includes cap	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of company) water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aerial II Vegetated Concave vations: er Present? Yee Present? Yee resent? Yee	magery (B's Surface (I	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) chees): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Seconda Surf Drai Dry Cray ots (C3) Satu Stur FAC	ary Indicators (minimum of two requace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (Cated or Stressed Plants (D1) morphic Position (D2) c-Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	ınty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WFWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	rownship, Ra	ange:		
Landform (hillside, terrace, etc.):		!	Local relief (concave, convex, none):		
Slope (%): Lat: 39.075526	<u> </u>	Long:	83.763171		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	t slopes			NWI classif	ication:	
Are climatic / hydrologic conditions on the site typical for	or this time c	of year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly (disturbed? F	لــــــــــــــــــــــــــــــــــــ	 Circumstances" present?	Yes X No	' <u></u>
Are Vegetation, Soil, or Hydrologyr						
SUMMARY OF FINDINGS – Attach site ma						ures, etc
Hydrophytic Vegetation Present? Yes X No	o _	Is the	e Sampled Aı	rea		
	°	withir	n a Wetlandî	? Yes X	No	
Wetland Hydrology Present? Yes X No	o					
Remarks:						
TOTAL Use asignific names of pla	•					
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	T		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Indicator Status	Dominance Test wor	ksheet:	
1. Quercus palustris	40	Yes	FACW	Number of Dominant	Species That	
2. Acer rubrum	20	Yes	FAC	Are OBL, FACW, or F	•	5 (A)
3. Ulmus rubra	20	Yes	FAC	Total Number of Dom	inant Species	
4.			!	Across All Strata:	•	6 (B)
5			!	Percent of Dominant S	•	
<u></u>	80 =	=Total Cover	ŀ	Are OBL, FACW, or F	AC: 83	.3% (A/B)
Sapling/Shrub Stratum (Plot size:))		= 4 0 \ 4 \			
1. Lindera benzoin	40	Yes	FACU	Prevalence Index wo		L
Fagus grandifolia 3.	10	Yes	<u>FACU</u>	Total % Cover of OBL species 40		<u>by:</u> 40
3. 4.				FACW species 80		60
5.				FAC species 40		20
0	50 =	=Total Cover		FACU species 10		40
Herb Stratum (Plot size:)			ŀ	UPL species 0		0
1. Carex Iurida	40	Yes	OBL	Column Totals: 17	0 (A) 3	60 (B)
2.				Prevalence Index :	= B/A = 2.12	
3.						
4				Hydrophytic Vegetat	ion Indicators:	
5					Hydrophytic Vegeta	ation
6				X 2 - Dominance Te		
7				X 3 - Prevalence Inc		
8					Adaptations ¹ (Provi	
9.					ophytic Vegetation ¹	,
10	40 =	=Total Cover				
Woody Vine Stratum (Plot size:)	1 40	- Total Cover	ŀ	¹ Indicators of hydric so be present, unless dis		
1	,		ļ		turbed or problema.	.10.
2.				Hydrophytic Vegetation		
		=Total Cover		Present? Yes	X No	
Remarks: (Include photo numbers here or on a separ				-		-
Tromands (morado pristo names).	u.o co ,					

SOIL Sampling Point: WFWet1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
				_	_			
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		rix (S4)			t Prairie Redox (A16)
_	pipedon (A2)		Sandy Red					Manganese Masses (F12)
Black Hi	` '		Stripped M	•	6)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu				Other	r (Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	d Below Dark Surface	e (A11)	X Depleted N	∕atrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	icky Peat or Peat (S3	5)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present	? Yes_X_ No
	rm is revised from Mid //www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http: HYDROLC Wetland Hy	://www.nrcs.usda.gov DGY drology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142				
HYDROLO Wetland Hy Primary India	OGY drology Indicators: cators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	<u>Secondar</u>	y Indicators (minimum of two required
HYDROLO Wetland Hy Primary India	OGY drology Indicators: cators (minimum of o	/Internet/F	SE_DOCUMENTS ired; check all that a X Water-Stai	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	<u>Secondar</u> Surfa	y Indicators (minimum of two required ce Soil Cracks (B6)
HYDROLO Wetland Hy Primary India Surface High Wa	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx)	Secondar Surfa X Drain	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	Secondar Surfa X Drain Dry-S	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1	(293.docx)	Secondar Surfa X Drain Dry-S X Crayf	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I	(293.docx)	Secondar Surfa Dry-S Crayf ots (C3) Satur	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Secondar X Drain Dry-S X Crayf Satur Stunt Stunt	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
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HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation	drology Indicators: cators (minimum of	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In v Vegetated Concave	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In v Vegetated Concave	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized R Presence of Recent Iro Thin Muck (7) Gauge or (38) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water	drology Indicators: cators (minimum of	magery (B'Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck 7) Gauge or N 38) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) demarks)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
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HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water Table Saturation P	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In vegetated Concave vations: are Present? Ye resent? Ye resent? Ye	magery (B: Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck (7) Gauge or (58) Other (Exp	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Ir o Vegetated Concave rvations: ter Present? Present? Ye pillary fringe)	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In vegetated Concave vations: are Present? Ye resent? Ye resent? Ye	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
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HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	oGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Ir o Vegetated Concave rvations: ter Present? Present? Ye pillary fringe)	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WFUp1
Investigator(s): M. Perkins, C. Brendel		Section, T	ownship, Ra	nge:		
Landform (hillside, terrace, etc.):		l	Local relief (d	concave, convex, none):		
Slope (%): Lat: <u>39.075493</u>		Long:	83.762763		Datum: <u>NAD83</u>	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	slopes			NWI classif	ication:	
Are climatic / hydrologic conditions on the site typical fo	r this time o	f year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrologysi	gnificantly o	disturbed? A	re "Normal C	Circumstances" present?	Yes X No	·
Are Vegetation, Soil, or Hydrologyn	aturally prob	olematic? (I	lf needed, ex	plain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma	p showir	ng samplin	g point lo	cations, transects	, important feat	lures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled A	rea		
			າ a Wetland′		No X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
VEGETATION – Use scientific names of plan	nts.					
Trac Stratum (Diet size)	Absolute	Dominant Species?	Indicator	Dominance Test wor	drob o o tu	
Tree Stratum (Plot size:) 1. Carya ovata	% Cover 60	Species? Yes	Status FACU			
2. Acer rubrum	20	Yes	FAC	Number of Dominant S Are OBL, FACW, or F	•	2 (A)
3.				Total Number of Domi		(,
4.				Across All Strata:	•	5 (B)
5.				Percent of Dominant S	Species That	
	80 =	=Total Cover		Are OBL, FACW, or F	AC: 40	.0% (A/B)
Sapling/Shrub Stratum (Plot size:)						
1. Fagus grandifolia	30	Yes	<u>FACU</u>	Prevalence Index wo		
2				Total % Cover of		<u>by:</u>
3				OBL species 0 FACW species 0		0
5.				FAC species 40		20
	30 =	=Total Cover		FACU species 14		60
Herb Stratum (Plot size:)				UPL species 0	x 5 =	0
1. Rosa multiflora	50	Yes	FACU	Column Totals: 18	0 (A) 6	80 (B)
2. Toxicodendron radicans	20	Yes	<u>FAC</u>	Prevalence Index =	= B/A = <u>3.78</u>	
3						
4				Hydrophytic Vegetat		
5 6.				1 - Rapid Test for 2 - Dominance Te	Hydrophytic Vegeta	ation
7				3 - Prevalence Inc		
8.					Adaptations ¹ (Provi	de supporting
9.					s or on a separate s	
10.				Problematic Hydro	ophytic Vegetation ¹	(Explain)
	70 =	=Total Cover		¹ Indicators of hydric so	oil and wetland hydr	ology must
Woody Vine Stratum (Plot size:)				be present, unless dis		
1				Hydrophytic		
2				Vegetation	<u> </u>	
		=Total Cover		Present? Yes_	No X	<u>-</u>
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

SOIL Sampling Point: WFUp1

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	С	М	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		rix (S4)			t Prairie Redox (A16)
	pipedon (A2)		Sandy Red					Manganese Masses (F12)
	istic (A3)		Stripped M		5)			Parent Material (F21)
	en Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu				Other	(Explain in Remarks)
	uck (A10)	(0.44)	Loamy Gle	•	` '			
	d Below Dark Surface ark Surface (A12)	(A11)	X Depleted N Redox Dai				³ Indicator	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted [١		nd hydrology must be present,
	ucky Peat or Peat (S3)	Redox De			,		s disturbed or problematic.
	Layer (if observed):	,			- ()	Т		
Type:	Layer (ii observed).							
Depth (i	nches):						Hydric Soil Present	? Yes X No
Remarks:							•	
	://www.nrcs.usda.gov/		_		. –			
IVPP								
HYDKOLO	DGY							
	OGY vdrology Indicators:							
Wetland Hy		ne is requ	ired; check all that	apply)			<u>Secondar</u>	y Indicators (minimum of two required
Wetland Hy Primary Indi Surface	vdrology Indicators: icators (minimum of o Water (A1)	ne is requ	Water-Sta	ined Lea	, ,			y Indicators (minimum of two required ce Soil Cracks (B6)
Wetland Hy Primary Indi Surface High Wa	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2)	ne is requ	Water-Sta Aquatic Fa	ined Lea ıuna (B1	3) ` ´		Surfa Drain	ce Soil Cracks (B6) age Patterns (B10)
Wetland Hy Primary Indi Surface High Wa	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3)	ne is requ	Water-Sta Aquatic Fa True Aqua	ined Lea iuna (B1 tic Plant	3) s (B14)		Surfa Drain Dry-S	ce Soil Cracks (B6) age Patterns (B10) deason Water Table (C2)
Wetland Hy Primary Indi Surface High Wa Saturati Water M	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) vlarks (B1)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea luna (B1 tic Plant Sulfide (3) s (B14) Odor (C1)	Surfa Drain Dry-S Crayf	ce Soil Cracks (B6) age Patterns (B10) deason Water Table (C2) dish Burrows (C8)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on l) Living Ro	Surfa Drain Dry-S Crayf oots (C3) Satur	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimed	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on led) Living Ro (C4)	Surfa Drain Dry-S Crayf pots (C3)Satur Stunt	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea luna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	3) s (B14) Odor (C1 eres on led Iron (tion in Ti) Living Ro (C4)	Surfa	cee Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimed Drift Dep Algal Ma	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1 eres on led Iron (tion in Ti) Living Ro (C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
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Primary Indi Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsel	vdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave	nagery (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on led Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Surfa	cee Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
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Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wa	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Yes	nagery (B Surface (s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches):nches): _) Living Ro (C4) Iled Soils	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obset Surface Wa Water Table Saturation F	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Yes	nagery (B Surface (s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	ined Lea nuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat Depth (ii Depth (ii	3) s (B14) Odor (C1 eres on led Iron (C7) a (D9) emarks) nches):nches): _) Living Ro (C4) Iled Soils	Surfa Drain Dry-S Crayf Satur Stunt G (C6) FAC-	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Yes Present? Yes	nagery (B Surface (s s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Solution (C1) Solution in Ti (C7) Solu) Living Ro (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3) Satur Stunt Geon FAC-	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimen Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Yes pillary fringe)	nagery (B Surface (s s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Solution (C1) Solution in Ti (C7) Solu) Living Ro (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3) Satur Stunt Geon FAC-	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Yes pillary fringe)	nagery (B Surface (s s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Solution (C1) Solution in Ti (C7) Solu) Living Ro (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3) Satur Stunt Geon FAC-	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Present? Yes pillary fringe)	nagery (B Surface (s s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Solution (C1) Solution in Ti (C7) Solu) Living Ro (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3) Satur Stunt Geon FAC-	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WGWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	Township, Ra	inge:		
Landform (hillside, terrace, etc.):		!	Local relief (c	concave, convex, none):		
Slope (%): Lat: 39.079645		Long:	83.780417		Datum: NAD83	
Soil Map Unit Name: Westboro-Schaffer silt loams, 0 to	o 2 percent s	slopes		NWI classif	ication: PSS1A	
Are climatic / hydrologic conditions on the site typical for	or this time o	of year?	Yes X	No (If no, exp	olain in Remarks.)	_
Are Vegetation, Soil, or Hydrologys	significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrologyr	naturally prot	olematic? (If needed, ex	xplain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma			ıg point lo	ocations, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes X No	o	Is the	Sampled Ar	rea		
	°	withir	n a Wetland?	? Yes X	No	
Wetland Hydrology Present? Yes X No	<u> </u>			_		
Remarks: Observations consistent with WGWet2: 39.082588, -8	33.778048					
VEGETATION – Use scientific names of pla	ints.					
Tree Christian (District)	Absolute	Dominant	Indicator	Daminana Toot was		
Tree Stratum (Plot size:) 1. Quercus palustris	% Cover 30	Species? Yes	Status FACW	Dominance Test wor		
Acer rubrum	30	Yes	FACV	Number of Dominant S Are OBL, FACW, or F	•	5 (A)
3. Liquidambar styraciflua	30	Yes	FACW	Total Number of Domi		<u> </u>
4.				Across All Strata:	•	6(B)
5.				Percent of Dominant S	Species That	
	90 =	=Total Cover		Are OBL, FACW, or F		.3% (A/B)
Sapling/Shrub Stratum (Plot size:))		=	<u> </u>		
1. Lindera benzoin	40	Yes	FACU	Prevalence Index wo		
2. <u>Fagus grandifolia</u>	30	Yes	FACU	Total % Cover of		
3			!	OBL species 70 FACW species 10		<u>0</u> 00
4 5.				FAC species 30		90
	70 =	=Total Cover		FACU species 30		20
Herb Stratum (Plot size:)	-		l	UPL species 0		0
1. Carex lurida	70	Yes	OBL	Column Totals: 23		80 (B)
2.				Prevalence Index =	= B/A = 2.09	
3.						
4				Hydrophytic Vegetat	ion Indicators:	
5					Hydrophytic Vegeta	ition
6.				X 2 - Dominance Te		
7				X 3 - Prevalence Inc		·
8		·			Adaptations ¹ (Provides or on a separate s	
9 10.					ophytic Vegetation ¹	<i>'</i>
10	70 =	=Total Cover		¹ Indicators of hydric so		
Woody Vine Stratum (Plot size:))	-10101 0070.	l	be present, unless dis		
1	,		1		(d) 40 4 1 p. 2	
2.				Hydrophytic Vegetation		
		=Total Cover		Present? Yes_	No	
Remarks: (Include photo numbers here or on a separ	rate sheet.)					

SOIL Sampling Point: WGWet1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
				_	_			
- ' '	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		rix (S4)			t Prairie Redox (A16)
_	pipedon (A2)		Sandy Red					Manganese Masses (F12)
Black Hi	` '		Stripped M	•	6)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu				Other	r (Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	d Below Dark Surface	(A11)	X Depleted N	∕atrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	icky Peat or Peat (S3)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present	? Yes_X_ No
	rm is revised from Mic ://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http: HYDROLC Wetland Hy	://www.nrcs.usda.gov DGY drology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142				
HYDROLO Wetland Hy Primary India	OGY drology Indicators: cators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	<u>Secondar</u>	y Indicators (minimum of two required
HYDROLO Wetland Hy Primary India	OGY drology Indicators: cators (minimum of o Water (A1)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	<u>Secondar</u> Surfa	ry Indicators (minimum of two required nce Soil Cracks (B6)
HYDROLO Wetland Hy Primary India Surface High Wa	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx)	Secondar Surfa X Drain	ry Indicators (minimum of two required nce Soil Cracks (B6) nage Patterns (B10)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	Secondar Surfa X Drain Dry-S	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1	293.docx)	Secondar Surfa X Drain Dry-S X Crayf	y Indicators (minimum of two required lice Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I	293.docx)	Secondar Surfa Dry-S Crayf ots (C3) Satur	ry Indicators (minimum of two required nce Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C9)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Secondar Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt	ry Indicators (minimum of two required lice Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1)
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Ro	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	ry Indicators (minimum of two required toce Soil Cracks (B6) (age Patterns (B10) (Beason Water Table (C2) (Bish Burrows (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	ry Indicators (minimum of two required lice Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck T) Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	ry Indicators (minimum of two required toce Soil Cracks (B6) (age Patterns (B10) (Beason Water Table (C2) (B) (B) (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ir	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck T) Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	ry Indicators (minimum of two required toce Soil Cracks (B6) (age Patterns (B10) (Beason Water Table (C2) (Bish Burrows (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In v Vegetated Concave	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck (7) Gauge or (88) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	ry Indicators (minimum of two required ce Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) norphic Position (D2)
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HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Sparsely Field Obser Surface Water Water Table	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In vegetated Concave retrors: ter Present? Ye	magery (B: Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or No X No X	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Secondar	y Indicators (minimum of two required the Soil Cracks (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water Table Saturation P	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ir v Vegetated Concave rvations: ter Present? Ye dresent? Ye gresent? Ye	magery (B: Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or No X No X	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf Ots (C3) Satur Stunt Geon	y Indicators (minimum of two require ce Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ir v Vegetated Concave rvations: ter Present? Ye dresent? Ye gresent? Ye	magery (B'Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck T) Gauge or NO Cher (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two required the Soil Cracks (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ir v Vegetated Concave rvations: ter Present? Ye present? Ye prillary fringe)	magery (B'Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck T) Gauge or NO Cher (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two required the Soil Cracks (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Ir v Vegetated Concave rvations: ter Present? Ye present? Ye prillary fringe)	magery (B'Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck T) Gauge or NO Cher (Exp. No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two require lice Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/14/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WGUp1
Investigator(s): M. Perkins, C. Brendel		Section, T	Гownship, Ra	ange:		
Landform (hillside, terrace, etc.):		!	Local relief (d	concave, convex, none):		
Slope (%): Lat: 39.081516		Long:	83.780169		Datum: NAD83	
Soil Map Unit Name: Westboro-Schaffer silt loams, 0 t	io 2 percent s	slopes		NWI classit	fication:	
Are climatic / hydrologic conditions on the site typical for	or this time o	of year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes <u>X</u> No)
Are Vegetation, Soil, or Hydrology	naturally prob	olematic? (If needed, ex	cplain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showir	ng samplin	ıg point lo	cations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes No	o_X_	Is the	Sampled A	rea		
Hydric Soil Present? Yes X	o <u> </u>	withir	n a Wetland′	? Yes	No X	
Wetland Hydrology Present? Yes No	o_X_					
Remarks:	-					_
Observations typical for WGUp2: 39.084051, -83.778	613					
VEGETATION – Use scientific names of pla						
VEGETATION - 036 Solemino marrios of pia	Absolute	Dominant	Indicator	Γ		1
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	rksheet:	
1. Carya ovata	30	Yes	FACU	Number of Dominant	•	
2. Acer rubrum	20	Yes	FAC	Are OBL, FACW, or F	AC:	2 (A)
3. <u>Fagus grandifolia</u>	20	Yes	FACU	Total Number of Dom	•	2 (D)
4				Across All Strata:		6 (B)
5	70 =	=Total Cover		Percent of Dominant : Are OBL, FACW, or F		3.3% (A/B)
Sapling/Shrub Stratum (Plot size:		-10tai 00vo.		AIC ODE, I / LOVV, S. I	A0	(, (,),
1. Fagus grandifolia	30	Yes	FACU	Prevalence Index wo	orksheet:	
2.				Total % Cover of		by:
3.				OBL species 2	0 x 1 =	20
4.				FACW species 0) x 2 =	0
5				FAC species 2		60
<u></u> .	30 =	=Total Cover		FACU species 13		520
Herb Stratum (Plot size:)	50	V	540U	UPL species 0		0 (B)
1. Rosa multiflora	20	Yes	FACU	Column Totals: 17		600 (B)
2. Carex lurida 3.	20	Yes	OBL_	Prevalence Index	= B/A = <u>3.53</u>	
				Hydrophytic Vegetat		
					· Hydrophytic Vegeta	ation
6.				2 - Dominance Te		A
7.				3 - Prevalence Inc		
8.				4 - Morphological	Adaptations ¹ (Provi	ide supporting
9.					ks or on a separate	•
10				Problematic Hydr	ophytic Vegetation ¹	(Explain)
	70	=Total Cover		¹ Indicators of hydric s		
Woody Vine Stratum (Plot size:)			be present, unless dis	turbed or problema	tic.
1.				Hydrophytic		
2		=Total Cover		Vegetation Present? Yes	No X	
		- Tulai Guvei		Flesent: 103		_
Remarks: (Include photo numbers here or on a separ	rate sneet.)					

SOIL Sampling Point: WGUp1

Inches Color (moist) % Color (moist) % Iype Loc Learny/Clayer	(inches)	Matrix		Redo	x Feature				
4-12 7.5YR 5/1 60 7.5YR 5/8 40 C M Loamy/Clayey Prominent redox concentrations Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Third includes the standard of the standard st		Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Plug	1-4	10YR 4/3	100					Loamy/Clayey	
Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Mineral (S1) 5 cm Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F7) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (P7) Type: Depleted Dark Surface (F7) Depleted Dark Surface (F7) Type: Depleted Native (A10) Redox Dark Surface (A12) Redox Dark Surface (F7) Type: Depleted Dark Surface (A12) Redox Dark Surface (F7) Wetland Hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed):** Type: Depth (inches): **Hydric Soil Present?** **YesX	4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
Hydric Soil Indicators: Histoscol (A1) Histoscol (A2) Black Histot (A3) Black Histot (A3) Black Histot (A3) Stripped Matrix (S6) Black Histot (A3) Stripped Matrix (S6) Black Histot (A3) Hydrogen Sulfide (A4) Dark Surface (S7) Loamy Mucky Mineral (F1) Thick Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Depleted Dark Surface (A12) Redox Dark Surface (F7) Wetland Hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Wetland Hydrology indicators: Primary Indicators (Indicators of Hydric Soils, Version 7.0, 2015 Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HyDROLOGY Wetland Hydrology indicators: Primary Indicators (Indicators (Indicators (Indicators of Hydric Soils, Version 7.0, 2015 Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) High Water Table (A2) Aquatic Panua (B13) Saturation (A3) True Aquatic Plants (B14) Py-Season Water Table (C2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) True Aquatic Plants (B10) Saturation (Na) Algal Mat or Crust (B4) Recombartine Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Coastilate Hydric Soils Present Marks (B10) Prosition Remarks No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Coastilate Hydrology Present? Yes No Coastilate Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology									
Hydric Soil Indicators: Histoscol (A1) Histoscol (A2) Black Histot (A3) Black Histot (A3) Black Histot (A3) Stripped Matrix (S6) Black Histot (A3) Stripped Matrix (S6) Black Histot (A3) Hydrogen Sulfide (A4) Dark Surface (S7) Loamy Mucky Mineral (F1) Thick Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Depleted Dark Surface (A12) Redox Dark Surface (F7) Wetland Hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Wetland Hydrology indicators: Primary Indicators (Indicators of Hydric Soils, Version 7.0, 2015 Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HyDROLOGY Wetland Hydrology indicators: Primary Indicators (Indicators (Indicators (Indicators of Hydric Soils, Version 7.0, 2015 Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) High Water Table (A2) Aquatic Panua (B13) Saturation (A3) True Aquatic Plants (B14) Py-Season Water Table (C2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) True Aquatic Plants (B10) Saturation (Na) Algal Mat or Crust (B4) Recombartine Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Coastilate Hydric Soils Present Marks (B10) Prosition Remarks No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Coastilate Hydrology Present? Yes No Coastilate Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology									
Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Mineral (S1) 5 cm Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3) Redox Dark Surface (F7) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (P7) Type: Depleted Dark Surface (F7) Depleted Dark Surface (F7) Type: Depleted Native (A10) Redox Dark Surface (A12) Redox Dark Surface (F7) Type: Depleted Dark Surface (A12) Redox Dark Surface (F7) Wetland Hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed):** Type: Depth (inches): **Hydric Soil Present?** **YesX									
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histo Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histo (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Coarn Surface (A11) X Depleted Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A21) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Phyth (inches): Phyth (inches): Phyth (inches): Phyth (inches): Phyth Water Table (A2) Aquatic Fauna (B13) Surface Water (A1) Water Marks (B1) Surface (A2) Aquatic Fauna (B13) Surface Water (A1) Water Marks (B1) Hydrology Indicators: Pirmany Indicators (Innimum of one is required: check all that apply) Surface Water (A1) Surface Water (A1) Water Marks (B1) Hydrology Indicators: Pirmany Indicators (Innimum of one is required: Check all that apply) Surface Water (A1) Surface Water (A1) Water Marks (B1) Hydrology Indicators (B2) Oxidized Rhizospheres on Living Roots (C3) Suturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Suturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Trin Mayos Surface (C6) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (Inches):	¹ Type: C=Co	oncentration, D=Deple	tion, RM=F	Reduced Matrix, N	//S=Masl	ked Sand	l Grains.		
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A12) Serve Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Serve Muck (A10) Loamy Gleyed Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Serve Mucky Peat or Peat (S3) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water Stained Leaves (B9) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Pray Part Table (C2) True Aquatic Plants (B14) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Spatial Mater (Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Spatial Mater (Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Spatial Mater (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Water Table Present? Yes No X Depth (inches): Water Table Present?	-								<u>-</u>
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Type: Depth (inches): Hydric Soil Present? Yes x No	5 cm Mu	cky Peat or Peat (S3)		Redox Der	pressions	s (F8)		unles	s disturbed or problematic.
Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Sutface Soil Cracks (B6) PhySeason Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Inon Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water (Are Mydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Restrictive I	_ayer (if observed):							
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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): Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface V Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	e is require	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence G Recent Iro	ined Lea auna (B1 itic Plants Sulfide C Rhizosph of Reduc in Reduc	3) s (B14) Odor (C1) eres on I ced Iron (iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Field Observations: Surface Water Present? Yes	Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)		Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck	ined Lea auna (B1 sulfide C Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1) eres on led Iron (tion in Ti	iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indic Surface N High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Dep	cators (minimum of one water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) t or Crust (B4) on Visible on Aerial Ima	agery (B7)	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 sulfide C Rhizosph of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9)	iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indic Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Depo Inundatic Sparsely	cators (minimum of one water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S	agery (B7)	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 sulfide C Rhizosph of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ed Iron (tion in Ti (C7) a (D9)	iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observ	drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S	agery (B7) Surface (B8	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp	ined Lea auna (B1 sulfide C Rhizosph of Reduc n Reduc Surface Well Data blain in R	3) s (B14) Ddor (C1) eres on I eed Iron (tion in Ti (C7) a (D9) emarks)	iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observ Surface Water	cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) tt or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S vations: er Present? Yes	agery (B7) Surface (B8	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or V B) Other (Exp	ined Lea auna (B1 sulfide C Rhizosphof Reduc on Reduc Surface Well Data blain in R	3) s (B14) Ddor (C1) eres on I ered Iron (tion in Ti (C7) a (D9) emarks)	iving Ro C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indic Surface V High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Dep: Inundatio Sparsely Field Obsert Surface Water Water Table	cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S vations: er Present? Yes Present? Yes	agery (B7) Surface (B8	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence G Recent Iro Thin Muck Gauge or N B) Other (Exp	ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc surface Well Data Dlain in R	3) s (B14) Ddor (C1) eres on I eres on I (C7) a (D9) emarks) nches): _ nches): _	iving Ro C4)	Surfa Drain Dry-S Crayf Satur Stunt G (C6) FAC-	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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Remarks:	Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatic Sparsely Field Observ Surface Water Table Saturation Pr (includes cap	cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S vations: er Present? Yes	agery (B7) Surface (B8	Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Thin Muck Gauge or N Other (Exp No X No X No X	ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in	3) s (B14) Odor (C1) eres on I eed Iron (tion in Ti (C7) a (D9) emarks) enches): _nches): _	Living Ro	Surfa Drain Dry-S Crayf Sots (C3) Satur Stunt G (C6) Geon FAC-	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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Project/Site: Highland Solar		City/Cour	nty: Buford/	Sampling Date: 12/14/2017			
Applicant/Owner: Hecate Energy LLC				State: OH Sampling Point: WHWet1			
Investigator(s): M. Perkins, C. Brendel		Section, T	Γownship, Ra	ange:			
Landform (hillside, terrace, etc.):		!	Local relief (d	concave, convex, none):_			
Slope (%): Lat: 39.087931		Long:{	83.761723		Datum: NAD83		
Soil Map Unit Name: Clermont silt loam, 0 to 1 percen	nt slopes			NWI classifi	ication:		
Are climatic / hydrologic conditions on the site typical f	for this time c	of year?	Yes X	No (If no, exp	olain in Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly (disturbed? A	——— ا re "Normal				
Are Vegetation, Soil, or Hydrology	-			xplain any answers in Rer	<u> </u>		
SUMMARY OF FINDINGS – Attach site m	=		ıg point lo	ocations, transects,	important features, etc.		
Hydric Soil Present? Wetland Hydrology Present? Yes X N Yes X N	lo lo		e Sampled A n a Wetland		No		
Remarks: VEGETATION – Use scientific names of pla	ante						
The state of the s	Absolute	Dominant	Indicator	T			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:		
1. Quercus palustris	10	No	FACW	Number of Dominant S	•		
2. Acer rubrum	70	Yes	<u>FAC</u>	Are OBL, FACW, or FA			
3. 4.				Total Number of Domi Across All Strata:	inant Species 3 (B)		
5.				Percent of Dominant S			
	80	=Total Cover		Are OBL, FACW, or FA			
Sapling/Shrub Stratum (Plot size:)						
1. Fagus grandifolia	20	Yes	FACU	Prevalence Index wo			
2.				Total % Cover of:			
3				OBL species 0			
4				FACW species 50			
5	20	=Total Cover		FAC species 70 FACU species 20			
<u>Herb Stratum</u> (Plot size:)		- I Ulai Guvei		UPL species 0			
1. Elymus virginicus 2.	40	Yes	FACW	Column Totals: 14	0 (A) 390 (B)		
3							
4				Hydrophytic Vegetati			
5.					Hydrophytic Vegetation		
6				X 2 - Dominance Te X 3 - Prevalence Ind			
7. 8.					dex is ≤3.0° Adaptations¹ (Provide supporting		
	· ·				s or on a separate sheet)		
10.					ophytic Vegetation ¹ (Explain)		
	40	=Total Cover			oil and wetland hydrology must		
Woody Vine Stratum (Plot size:				be present, unless dist			
1				Hydrophytic			
2				Vegetation			
		=Total Cover		Present? Yes_	X No		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

SOIL Sampling Point: WHWet1

(inches)			Redo	x Featur				
()	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matı	rix (S4)			t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-l	Manganese Masses (F12)
Black His	Black Histic (A3) Stripped Matrix (S6)			Red I	Parent Material (F21)			
Hydroger	Hydrogen Sulfide (A4) Dark Surface (S7)			Very	Shallow Dark Surface (F22)			
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	(Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	Below Dark Surface	(A11)	X Depleted N	//atrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive L	.ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present	? Yes X No
Errata. (IIIIp./	/www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
	_	_						s of Hydric Soils, Version 7.0, 2015
HYDROLO	GY	_						s of Hydric Soils, Version 7.0, 2015
HYDROLO Wetland Hyd	GY Irology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142				
HYDROLO Wetland Hyo Primary Indic	GY Irology Indicators: ators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	Secondar	y Indicators (minimum of two required
HYDROLO Wetland Hyo Primary Indio	GY Irology Indicators: ators (minimum of o Vater (A1)	/Internet/F	SE_DOCUMENTS ired; check all that a X Water-Stai	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	Secondai	y Indicators (minimum of two required ce Soil Cracks (B6)
HYDROLO Wetland Hyc Primary Indic Surface \ High Wat	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2)	/Internet/F	ired; check all that a X Water-Stai	/nrcs142 apply) ined Lea uuna (B1	ves (B9)	293.docx)	Secondar Surfa Drain	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10)
HYDROLO Wetland Hyd Primary Indid Surface \ High Wat Saturatio	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea iuna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	Secondar Surfa Drain Dry-S	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
HYDROLO Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Ma	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea luna (B1 tic Plant Sulfide C	ves (B9) 3) s (B14) Odor (C1	293.docx)	Secondar Surfa Drain Dry-S X Crayl	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8)
HYDROLO Wetland Hyd Primary Indio Surface \ High Wat Saturatio Water Ma Sedimen	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ined Lea iuna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Ddor (C1 eres on I	293.docx)	Secondar Surfa Drain Dry-S X Crayl Ots (C3) Satur	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Mater Mate	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of	apply) ined Lea iuna (B1 tic Plant Sulfide (Shizosph of Reduce	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Secondar Surfa Drain Dry-S X Crayfo Sature Stunt	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
HYDROLO Wetland Hyc Primary Indic Surface \ High Wat Saturatio Water Ma Sedimen Drift Dep Algal Materology	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized R Presence of Recent Iro	apply) ined Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Ro	Secondar Surfa Drain Dry-S X Crayl ots (C3) Satur Stunt (C6) X Geor	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hyc Primary Indic Surface \ High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) in (A3) arks (B1) it Deposits (B2) posits (B3) it or Crust (B4) posits (B5)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	apply) ined Lea tuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Secondar Surfa Drain Dry-S X Crayl ots (C3) Satur Stunt (C6) X Geor	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
HYDROLO Wetland Hyd Primary Indic Surface \(\) High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depot	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In	ne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Recent Iro Gauge or N	apply) ined Lea iuna (B1 tic Plant Sulfide (R Rizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ed Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Illed Soils	Secondar Surfa Drain Dry-S X Crayl ots (C3) Satur Stunt (C6) X Geor	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
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HYDROLO Wetland Hyd Primary Indio Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) to r Crust (B4) to r Crust (B4) to r Crust (B4) to r Crust (B5) n Visible on Aerial In Vegetated Concave Vations: ter Present? Yes	ne is requinagery (Bissurface (B	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck (7) Gauge or (58) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) demarks)) Living Ro (C4) Illed Soils	Secondar Surfa Drain Dry-S X Crayl ots (C3) Satur Stunt (C6) X Geor	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
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HYDROLO Wetland Hyde Primary Indice Surface V High Water Mater	GY Irology Indicators: ators (minimum of or	nagery (B Surface (B	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck (7) Gauge or No X No X	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) lemarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar Surfa Drain Dry-S X Crayl ots (C3) Satur Stunt (C6) X Geor	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
HYDROLO Wetland Hyde Primary Indice Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depe Inundatio Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	GY Irology Indicators: ators (minimum of or	magery (B ⁷ Surface (B	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck To Gauge or VO Cher (Exp. No X No X No X	apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar Surfa Dry-S X Crayl Ots (C3) Satur Stunt (C6) X Geon FAC-	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2) Neutral Test (D5)
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HYDROLO Wetland Hyde Primary Indice Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depe Inundatio Sparsely Field Observ Surface Wate Water Table Saturation Pr (includes cap	GY Irology Indicators: ators (minimum of orwater (A1) ter Table (A2) In (A3) arks (B1) It Deposits (B2) It Deposits (B3) It or Crust (B4) It osits (B5) In Visible on Aerial In Vegetated Concave (Vations: It or Present? If or Present? If or Present? If or Yesent? If or Ye	magery (B ⁷ Surface (B	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck To Gauge or VO Cher (Exp. No X No X No X	apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar Surfa Dry-S X Crayl Ots (C3) Satur Stunt (C6) X Geon FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
HYDROLO Wetland Hyde Primary Indice Surface Note High Water Mater Mat	GY Irology Indicators: ators (minimum of orwater (A1) ter Table (A2) In (A3) arks (B1) It Deposits (B2) It Deposits (B3) It or Crust (B4) It osits (B5) In Visible on Aerial In Vegetated Concave (Vations: It or Present? If or Present? If or Present? If or Yesent? If or Ye	magery (B ⁷ Surface (B	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck To Gauge or VO Cher (Exp. No X No X No X	apply) ined Lea iuna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar Surfa Dry-S X Crayl Ots (C3) Satur Stunt (C6) X Geon FAC-	y Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9 ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cou	City/County: Buford/Highland Sampling Date:				
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WHUp1	
Investigator(s): M. Perkins, C. Brendel		Section, T	⊺ownship, Ra	ange:			
Landform (hillside, terrace, etc.):		!	Local relief (c	concave, convex, none):			
Slope (%): Lat: 39.08807		Long: -	83.761665		Datum: NAD83		
Soil Map Unit Name: Atlas silt loam, 2 to 6 percent slo	pes, modera	tely eroded		NWI classit	fication:		
Are climatic / hydrologic conditions on the site typical f	for this time c	of year?	Yes X	No (If no, exp	olain in Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly	disturbed? F	ا Are "Normal C	 Circumstances" present?	Yes X No)	
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (If needed, ex	φlain any answers in Re	marks.)		
SUMMARY OF FINDINGS – Attach site m	=					tures, etc.	
Hydrophytic Vegetation Present? Yes N	lo X	Is the	Sampled A	rea			
Hydric Soil Present? Yes X N	lo <u> </u>	withir	n a Wetlandî	? Yes	No X		
Wetland Hydrology Present? Yes N	lo X						
Remarks:							
VEGETATION – Use scientific names of pla		Daminant	Indicator			-	
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1. Fagus grandifolia	30	Yes	FACU	Number of Dominant			
2. Acer rubrum	10	No	FAC	Are OBL, FACW, or F	•	1 (A)	
3. Carya ovata	20	Yes	FACU	Total Number of Dom	inant Species		
4.				Across All Strata:	•	4 (B)	
5				Percent of Dominant	•		
		=Total Cover		Are OBL, FACW, or F	AC: <u>25</u>	6.0% (A/B)	
Sapling/Shrub Stratum (Plot size:	_	.,	=				
1. Fagus grandifolia		Yes	<u>FACU</u>	Prevalence Index wo		1	
2.				Total % Cover of			
3						0	
5.				FAC species 5		50	
	20	=Total Cover		FACU species 7		280	
Herb Stratum (Plot size:)				UPL species 0		0	
1. Smilax rotundifolia	40	Yes	FAC	Column Totals: 12		130 (B)	
2.				Prevalence Index	= B/A = 3.58	`	
3.							
4.				Hydrophytic Vegetat	ion Indicators:		
5					Hydrophytic Vegeta	ation	
6				2 - Dominance Te			
7				3 - Prevalence Inc			
8.				·	Adaptations ¹ (Provi	0	
9.					ophytic Vegetation ¹	· ·	
10	40	-Total Cover				` '	
Woody Vine Stratum (Plot size:	1 40	=Total Cover		¹ Indicators of hydric s be present, unless dis			
1)				turbed or problema	uc.	
2.				Hydrophytic Vegetation			
		=Total Cover		Present? Yes	No X		
Remarks: (Include photo numbers here or on a sepa						-	
Tremaine. (molade priote numbers note of on a sepa	.iaio orioot.,						

SOIL Sampling Point: WHUp1

Depth	Matrix		Redo	x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
1-4	10YR 4/3	100					Loamy/Clayey				
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations			
		:									
¹ Type: C=C	oncentration, D=Dep	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		: PL=Pore Lining, M=Matrix.			
Hydric Soil								rs for Problematic Hydric Soils ³ :			
Histosol			Sandy Gle		rix (S4)			st Prairie Redox (A16)			
	ipedon (A2)		Sandy Red					Manganese Masses (F12)			
	Black Histic (A3) Stripped Matrix (S6) Park Surface (S7)				Parent Material (F21)						
′ ′	ydrogen Sulfide (A4) Dark Surface (S7) tratified Layers (A5) Loamy Mucky Mineral (F1)			Shallow Dark Surface (F22)							
			Othe	r (Explain in Remarks)							
2 cm Mu	` '		Loamy Gle	-							
	Below Dark Surface	(A11)	X Depleted N	•	•		a				
	rk Surface (A12)		Redox Dar					rs of hydrophytic vegetation and			
	lucky Mineral (S1)		Depleted [)		wetland hydrology must be present,			
	cky Peat or Peat (S3)	Redox Dep	oressions	s (F8)		unle	ss disturbed or problematic.			
Restrictive I	Layer (if observed):										
Typo:											
Type:											
Depth (in Remarks: This data for	· · ·	_						s of Hydric Soils, Version 7.0, 2015			
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicator				
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicator				
Depth (in Remarks: This data for Errata. (http://www.ht	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015			
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Depth (in Remarks: This data for Errata. (http::	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of co	/Internet/F	ired; check all that	apply)	ves (B9)	293.docx)	NRCS Field Indicator Seconda	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ace Soil Cracks (B6)			
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	/Internet/F	ired; check all that a water-Stai	apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicator Seconda Surfa	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)			
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface High Wa Saturation	m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of control of c	/Internet/F	ired; check all that a water-Stale Aquatic Fa	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-3	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)			
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M	m is revised from Mi //www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	ired; check all that a Water-Star Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plants	ves (B9) 3) s (B14) Odor (C1	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-4	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)			
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Project/Site: Highland Solar		City/Cour	nty: Buford/	Sampling Date: 12/14/2017	
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point: WIWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	Γownship, Ra	ange:	_
Landform (hillside, terrace, etc.):		!	Local relief (concave, convex, none):_	
Slope (%): Lat: 39.090607		Long:	83.768946		Datum: NAD83
Soil Map Unit Name: Westboro-Schaffer silt loams, 0 t	to 2 percent s	slopes		NWI classifi	ication:
Are climatic / hydrologic conditions on the site typical f	for this time c	of year?	Yes X	No (If no, exp	lain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly o	disturbed? F	—— ۱۹re "Normal (Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrology	-		If needed, ex	xplain any answers in Rer	narks.)
SUMMARY OF FINDINGS – Attach site m	=		ıg point lo	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X N	lo	Is the	Sampled A	rea	
	lo		n a Wetland		No
Wetland Hydrology Present? Yes X N	10	<u> </u>			
Remarks:					
Observations consistent with WIWet2: 39.089072, -8.	3.768173				
NECETATION Lieu esignific names of pla	1				
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	1	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:
1. Liquidambar styraciflua	50	Yes	FACW	Number of Dominant S	Species That
2. Quercus palustris	20	Yes	FACW	Are OBL, FACW, or F	•
3. Nyssa sylvatica	20	Yes	FAC	Total Number of Domi	nant Species
4				Across All Strata:	6 (B)
5				Percent of Dominant S	
	90 =	=Total Cover		Are OBL, FACW, or F	AC: 83.3% (A/B)
Sapling/Shrub Stratum (Plot size:)		540U		
1. Fagus grandifolia	20	Yes	FACW	Prevalence Index wo	
2. <u>Lindera benzoin</u> 3.	60	Yes	FACW	Total % Cover of: OBL species 20	
3. 				FACW species 130	
5.				FAC species 20	
	80 :	=Total Cover		FACU species 20	
Herb Stratum (Plot size:)				UPL species 0	
1. Carex Iurida	20	Yes	OBL	Column Totals: 19	
2.				Prevalence Index =	`` ``` `
3.					
4.				Hydrophytic Vegetati	on Indicators:
5					Hydrophytic Vegetation
6				X 2 - Dominance Te	
7.				X 3 - Prevalence Ind	
8.					Adaptations ¹ (Provide supporting s or on a separate sheet)
9.	·				• • • • • • • • • • • • • • • • • • • •
10	20 =	=Total Cover		- 	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		= Fotal Cover		Indicators of hydric so be present, unless dist	oil and wetland hydrology must
`)				urbed or problematic.
1. 2.				Hydrophytic Vegetation	
		=Total Cover		Present? Yes	X No
Remarks: (Include photo numbers here or on a sepa				<u>-</u>	
Tremaine. (morade priore manipers note of on a sepa	.rato orioot.,				

SOIL Sampling Point: WIWet1

Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-4	10YR 4/3	100					Loamy/Clayey	
4-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		<u> </u>						
¹ Type: C=Co	oncentration, D=Dep	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle		rix (S4)			t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-	Manganese Masses (F12)
Black His	Black Histic (A3) Stripped Matrix (S6)				Parent Material (F21)			
Hydroge	Hydrogen Sulfide (A4) Dark Surface (S7)			Very	Shallow Dark Surface (F22)			
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	rix (F2)			
Depleted	l Below Dark Surface	: (A11)	X Depleted N	√atrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [วark Surf	face (F7))	wetla	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	·)	Redox Dep	oressions	s (F8)		unles	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (in Remarks: This data for	· · ·	_						res X No No sof Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	_					NRCS Field Indicator	
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Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio	m is revised from Mi //www.nrcs.usda.gov OGY drology Indicators: cators (minimum of company) Water (A1) ter Table (A2) on (A3)	/Internet/F	ired; check all that a X Water-Stal Aquatic Fa	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-3	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2)
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Project/Site: Highland Solar	City/Cou	nty: Buford/l	Highland	Sampling Date:	12/15/2017	
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WJWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	ownship, Ra	nge:		
Landform (hillside, terrace, etc.):		1	Local relief (d	concave, convex, none	e):	
Slope (%): Lat: <u>39.084985</u>		Long:	83.800264		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	slopes				ssification:	
Are climatic / hydrologic conditions on the site typical for	r this time of	year?	Yes X	No (If no, o	explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysi	ignificantly d	isturbed? A	Are "Normal C			0
Are Vegetation , Soil , or Hydrology na				plain any answers in l		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transec	ts, important fea	ıtures, etc.
Hydric Soil Present? Yes X No	<u>_</u>		Sampled A		No	
Remarks:						
VEGETATION – Use scientific names of plan	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Indicator Status	Dominance Test v	vorksheet:	
1				Number of Domina	nt Species That	
2				Are OBL, FACW, o	or FAC:	2 (A)
3				Total Number of Do	ominant Species	0 (D)
4 5.				Across All Strata:		3 (B)
·		Total Cover		Percent of Dominal Are OBL, FACW, o		6.7% (A/B)
Sapling/Shrub Stratum (Plot size:)						` '
1	20	Yes		Prevalence Index		
2				Total % Cover		
3				OBL species FACW species		20
5.				FAC species		240
	20 =	Total Cover		FACU species	0 x 4 =	0
Herb Stratum (Plot size:)				UPL species	0 x 5 =	0
1. Panicum virgatum	80	Yes	FAC	Column Totals:	120 (A) 2	290 (B)
2. Juncus effusus	30	Yes	OBL	Prevalence Inde	x = B/A = 2.42	2
3. Carex grayi	10	No	FACW			
4				Hydrophytic Vege		
5					for Hydrophytic Veget	ation
6.				X 2 - Dominance X 3 - Prevalence		
7 8.					muex is ≤3.0 cal Adaptations¹ (Prov	vide supporting
					arks or on a separate	
10.				Problematic Hy	ydrophytic Vegetation	¹ (Explain)
	120 =	Total Cover			c soil and wetland hyd	, , ,
Woody Vine Stratum (Plot size:)					disturbed or problema	
1				Hydrophytic		
2				Vegetation		
	=	Total Cover		Present? Ye	es_XNo	_
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

SOIL Sampling Point: WJWet1

	Matrix		Redo	x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
1-6	10YR 5/2	60	7.5YR 5/6	40			Loamy/Clayey			
6-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
					_	_				
		<u> </u>				<u> </u>				
¹ Type: C=C	oncentration, D=Deple	tion. RM=	 Reduced Matrix. N	 //S=Masl	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil			,					s for Problematic Hydric Soils ³ :		
Histosol			Sandy Gle	yed Matı	rix (S4)			t Prairie Redox (A16)		
	oipedon (A2)		Sandy Red		, ,			Manganese Masses (F12)		
Black Hi			Stripped M		6)			Parent Material (F21)		
— Hydroge	Hydrogen Sulfide (A4) Stratified Layers (A5) Dark Surface (S7) Loamy Mucky Mineral (F1)			Very Shallow Dark Surface (F22)						
Stratified				(Explain in Remarks)						
 2 cm Мι	ıck (A10)		Loamy Gle	eyed Mat	rix (F2)					
Depleted	d Below Dark Surface ((A11)	X Depleted N	√atrix (F	3)					
Thick Da	Thick Dark Surface (A12) Redox Dark Surface (F6)			e (F6)		³ Indicator	s of hydrophytic vegetation and			
Sandy M	lucky Mineral (S1)		Depleted D	Dark Surl	face (F7))	wetland hydrology must be present,			
5 cm Mu	ıcky Peat or Peat (S3)		Redox Dep	oressions	s (F8)		unles	s disturbed or problematic.		
Restrictive	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present	? Yes <u>X</u> No		
HYDROLO)GY									
Wetland Hy	drology Indicators:	e is requir	ed: check all that a	annly)			Secondar	v Indicators (minimum of two require		
Wetland Hy Primary Indi	drology Indicators: cators (minimum of on	e is requir			ves (B9)			•		
Wetland Hy Primary India Surface	drology Indicators: cators (minimum of on Water (A1)	e is require	Water-Stai	ined Lea	` '		Surfa	ce Soil Cracks (B6)		
Wetland Hy Primary India Surface	drology Indicators: cators (minimum of on Water (A1) ater Table (A2)	e is require		ined Lea una (B1	3) ` ´		Surfa Drain	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) deason Water Table (C2)		
Wetland Hy Primary India Surface High Wa X Saturation	drology Indicators: cators (minimum of on Water (A1) ater Table (A2)	<u>e is requir</u>	Water-Stai Aquatic Fa	ined Lea una (B1 tic Plant	3) s (B14)		Surfa Drain Dry-S	ce Soil Cracks (B6) age Patterns (B10)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M	drology Indicators: cators (minimum of on- Water (A1) ater Table (A2) on (A3)	e is requir	Water-Stai Aquatic Fa True Aqua	ined Lea una (B1 tic Plant Sulfide C	3) s (B14) Odor (C1)	Surfa Drain Dry-S X Crayf	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer	drology Indicators: cators (minimum of on- Water (A1) ater Table (A2) on (A3) larks (B1)	e is requin	Water-Stai Aquatic Fa True Aqua Hydrogen	ined Lea una (B1 tic Plant Sulfide C Rhizosph	3) s (B14) Odor (C1 eres on I) _iving Ro	Surfa Drain Dry-S X Crayf ots (C3) Satur	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8)		
Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	<u>e is requir</u>	Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R	ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc	3) s (B14) Odor (C1) eres on l ced Iron () _iving Ro (C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	e is requir	Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iron	ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1) eres on I ced Iron (tion in Ti (C7)) _iving Ro (C4)	Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt G (C6) Geom	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im-	agery (B7)	Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N	ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1) eres on I ced Iron (tion in Ti (C7) a (D9)) _iving Ro (C4) Iled Soils	Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt G (C6) Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	agery (B7)	Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N	ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1) eres on I ced Iron (tion in Ti (C7) a (D9)) _iving Ro (C4) Iled Soils	Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt G (C6) Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Image Vegetated Concave Servations:	agery (B7)	Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or V 8) Other (Exp	ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dats blain in R	s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) _iving Ro (C4) Iled Soils	Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt G (C6) Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)		
Wetland Hy Primary India Surface High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Image Vegetated Concave Servations: ter Present? Yes	agery (B7) Surface (B	Water-Stai Aquatic Fa True Aqua Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	ined Lea auna (B1 tic Plant Sulfide C Rhizosphof Reduc n Reduc Surface Well Data Dlain in R	3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks)) _iving Ro (C4) Iled Soils	Surfa Drain Dry-S X Crayf ots (C3) Satur Stunt G (C6) Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)		
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Project/Site: Highland Solar		City/Cou	ınty: Buford/l	Highland	Sampling Date:	12/15/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WKWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	Township, Ra	inge:		
Landform (hillside, terrace, etc.):		!	Local relief (c	concave, convex, none):		
Slope (%): Lat: 39.077531		Long:	83.800468		Datum: NAD83	
Soil Map Unit Name: Westboro-Schaffer silt loams, 0 to	o 2 percent s	lopes		NWI classif	fication: PFO1A (pa	ırtial)
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)	_
Are Vegetation, Soil, or Hydrologys	significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes X No	·
Are Vegetation, Soil, or Hydrologyn	naturally prot	olematic? (lf needed, ex	κρlain any answers in Rei	marks.)	
SUMMARY OF FINDINGS – Attach site ma			ıg point lo	ocations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X No) _	Is the	e Sampled Ar	rea		
		withir	n a Wetland?	? Yes X	No	
Wetland Hydrology Present? Yes X No	<u>, </u>					
Remarks: Observations consistent with WKWet2: 39 07928 -83	700706					
Observations consistent with WKWet2: 39.07928, -83.	./99/90					
VEGETATION – Use scientific names of pla	nto					
VEGETATION - 036 Solonino hamos of plan	Absolute	Dominant	Indicator	ī		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
Liquidambar styraciflua	30	Yes	FACW	Number of Dominant	•	
2. Acer rubrum	30	Yes	FAC.	Are OBL, FACW, or F		4 (A)
3. Fagus grandifolia	20	Yes	FACU	Total Number of Dom	•	~ (D)
4. Quercus palustris	10	<u>No</u>	<u>FACW</u>	Across All Strata:	-	6 (B)
5	90 =	=Total Cover		Percent of Dominant S Are OBL, FACW, or F		6.7% (A/B)
Sapling/Shrub Stratum (Plot size:)	1	-Tulai Guvoi	ľ	AIC ODE, I AOVV, OI I	AC	<u>.7 /0</u> (/~, D)
1. Lindera benzoin	40	Yes	FACW	Prevalence Index wo	 orksheet:	
2. Fagus grandifolia	20	Yes	FACU	Total % Cover of		by:
3.				OBL species 0		0
4.				FACW species 15	50 x 2 = 3	300
5.				FAC species 30	0 x 3 =	90
	60 =	=Total Cover	ľ	FACU species 40		160
Herb Stratum (Plot size:)				UPL species 0		0
1. Leersia virginica	70	Yes	FACW_	Column Totals: 22	`	550 (B)
2.				Prevalence Index :	= B/A = <u>2.50</u>	
3 4.	·			Hydrophytic Vegetat	ion Indicators:	
					Hydrophytic Vegeta	ation
6.				X 2 - Dominance Te		ation
7.				X 3 - Prevalence Inc		
8.					Adaptations ¹ (Provi	ide supporting
9.		·		data in Remark	s or on a separate	sheet)
10.				Problematic Hydr	ophytic Vegetation ¹	(Explain)
	70 =	=Total Cover		¹ Indicators of hydric so	oil and wetland hyd	rology must
Woody Vine Stratum (Plot size:)	ı		ľ	be present, unless dis		
1				Hydrophytic		
2		= : : : 0		Vegetation		
		=Total Cover		Present? Yes_	No	_
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

SOIL Sampling Point: WKWet1

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 5/2	100					Loamy/Clayey	
5-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
				_	_			
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		rix (S4)			t Prairie Redox (A16)
_	oipedon (A2)		Sandy Red					Manganese Masses (F12)
	Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Dark Surface (S7)			Red Parent Material (F21)				
				Shallow Dark Surface (F22)				
	tratified Layers (A5) Loamy Mucky Mineral (F1)		Other	r (Explain in Remarks)				
2 cm Mu	ıck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	d Below Dark Surface	(A11)	X Depleted N	∕atrix (F	3)			
Thick Da	hick Dark Surface (A12) Redox Dark Surface (F6)		³ Indicator	s of hydrophytic vegetation and				
Sandy M	lucky Mineral (S1)		Depleted D	Dark Sur	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	ucky Peat or Peat (S3)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present	? Yes_X_ No
	rm is revised from Mic ://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	_						s of Hydric Soils, Version 7.0, 2015
Errata. (http: HYDROLC Wetland Hy	://www.nrcs.usda.gov DGY drology Indicators:	/Internet/F	SE_DOCUMENTS	/nrcs142				
HYDROLO Wetland Hy Primary India	Cators (minimum of o	/Internet/F	SE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	<u>Secondar</u>	y Indicators (minimum of two required
HYDROLO Wetland Hy Primary India	OGY rdrology Indicators: cators (minimum of o Water (A1)	/Internet/F	SE_DOCUMENTS ired; check all that a X Water-Stai	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	<u>Secondar</u> Surfa	y Indicators (minimum of two required ce Soil Cracks (B6)
HYDROLO Wetland Hy Primary India Surface High Wa	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	/Internet/F	ired; check all that a	/nrcs142 apply) ined Lea auna (B1	ves (B9)	293.docx)	Secondar Surfa X Drain	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	Secondar Surfa X Drain Dry-S	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua	apply) ined Lea auna (B1 tic Plant	ves (B9) 3) s (B14) Odor (C1	(293.docx)	Secondar Surfa X Drain Dry-S X Crayf	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on I	(293.docx)	Secondar Surfa Dry-S Crayf ots (C3) Satur	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep	oGY rdrology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I) Living Ro	Secondar X Drain Dry-S X Crayf Satur Stunt Stunt	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	OGY orology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) ant Deposits (B2) cosits (B3) at or Crust (B4)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized R Presence of Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti) Living Ro	Secondar X Drain Dry-S X Crayf ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	/Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Secondar X Drain Dry-S X Crayf ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundation	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In	ne is requ	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In y Vegetated Concave	ne is requ	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or N	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
HYDROLO Wetland Hyde Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser	OGY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial In y Vegetated Concave	ne is reques nagery (B'	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized R Presence of Recent Iro Thin Muck (7) Gauge or (38) Other (Exp.	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Secondar X Drain Dry-S X Crayf ots (C3) Satur Stunt Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) morphic Position (D2)
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HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	or crust (B4) cosits (B5) con Visible on Aerial Ir v Vegetated Concave rvations: ter Present? Present? vegetated Concave ry pillary fringe)	magery (B' Surface (I	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Qxidized Recent Iro Thin Muck Gauge or No X No X No X	apply) ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	ves (B9) 3) s (B14) Ddor (C1 eres on I ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _ nches): _) Living Ro (C4) Illed Soils	Secondar	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		City/Cour	nty: Buford/l	Highland	Sampling Date:	Date: 12/15/2017	
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WLWet1	
Investigator(s): M. Perkins, C. Brendel		Section, T	Γownship, Ra	inge:	_		
Landform (hillside, terrace, etc.):		١	Local relief (d	concave, convex, none):			
Slope (%): Lat: <u>39.087022</u>		Long:/	83.796596		Datum: NAD83		
Soil Map Unit Name: Westboro-Schaffer silt loams, 0 to	o 2 percent s	slopes		NWI classif	fication: PFO1A		
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)		
Are Vegetation, Soil, or Hydrologys	significantly o	A ?bedrutsit	ا Are "Normal	Circumstances" present?	Yes X No		
Are Vegetation, Soil, or Hydrologyr	naturally prob	olematic? (If needed, ex	κρlain any answers in Rei	marks.)		
SUMMARY OF FINDINGS – Attach site ma	ap showir	ıg samplin	ıg point lo	ocations, transects	, important feat	lures, etc.	
Hydrophytic Vegetation Present? Yes X No	o	Is the	Sampled A	rea			
	°	withir	n a Wetland′	? Yes X	No		
Wetland Hydrology Present? Yes X No	<u> </u>						
Remarks:	_	_	_				
VECETATION . Has aciontific names of pla					_		
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	Γ			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:		
1. Quercus palustris	90	Yes	FACW	Number of Dominant	Species That		
2. Acer rubrum	10	No	FAC	Are OBL, FACW, or F	AC:	2 (A)	
3				Total Number of Dom	•	<u> </u>	
4				Across All Strata:		3(B)	
5	110 =	=Total Cover		Percent of Dominant S Are OBL, FACW, or F	•	.7% (A/B)	
Sapling/Shrub Stratum (Plot size:		-Total Cove		Ale Obl, FACW, of I	AC	<u>./ 70</u> (A/D)	
1. Fagus grandifolia	40	Yes	FACU	Prevalence Index wo	 orksheet:		
2.				Total % Cover of		by:	
3.				OBL species 10		10	
4.				FACW species 90	0 x 2 = 1	80	
5				FAC species10		30	
	40 =	=Total Cover		FACU species 40		60	
Herb Stratum (Plot size:)	40	V-2	ODI	UPL species 0		0 (B)	
1. <u>Carex lurida</u> 2.	10	<u>Yes</u>	OBL	Column Totals: 15 Prevalence Index =	`	(B)	
3				Prevalence index -	= B/A =		
4.				Hydrophytic Vegetat	ion Indicators:		
5.					Hydrophytic Vegeta	ation	
6.				X 2 - Dominance Te			
7.				X 3 - Prevalence Inc			
8					Adaptations ¹ (Provi		
9					s or on a separate s	,	
10				<u> </u>	ophytic Vegetation ¹		
W. L.M. O. Co. Co. (District)	<u>10</u> =	=Total Cover		¹ Indicators of hydric so			
Woody Vine Stratum (Plot size:))			be present, unless dis	turbed or problema	ic.	
1				Hydrophytic			
2.		=Total Cover		Vegetation Present? Yes	X No		
Remarks: (Include photo numbers here or on a separ				-		-	
Remarks. (molude prioto numbers here of on a separ	ale silect.						

SOIL Sampling Point: WLWet1

Depth	ription: (Describe Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 5/2	100					Loamy/Clayey	
5-12	7.5YR 5/1	60	7.5YR 5/8	40	С		Loamy/Clayey	Prominent redox concentrations
			_					
1 _{Type: C=C}	oncentration, D=Dep	otion PM	-Poducod Matrix N	 49=Masi	end Sand		² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I		etion, ixivi	-iteaucea Mains, is	/IO-IVIASI	Neu Sand	Giailis.		rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			st Prairie Redox (A16)
	ipedon (A2)		Sandy Red		(= .)			Manganese Masses (F12)
Black His	. , ,		Stripped M		6)		_	Parent Material (F21)
	n Sulfide (A4)		Dark Surfa		,			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle					
Depleted	Below Dark Surface	(A11)	X Depleted N	/atrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicato	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7))	wetla	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	oression	s (F8)		unles	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in Remarks: This data for								s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://	m is revised from Mi //www.nrcs.usda.gov						NRCS Field Indicator	
Depth (in Remarks: This data for	m is revised from Mi //www.nrcs.usda.gov						NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://www.ht	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators:	/Internet/F	FSE_DOCUMENTS	/nrcs142			NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http://www.defand.com/de	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: eators (minimum of c	/Internet/F	rSE_DOCUMENTS	/nrcs142	2p2_0512	293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two required
Depth (in Remarks: This data for Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface N	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: eators (minimum of co	/Internet/F	ired; check all that X Water-Sta	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicator Seconda Surfa	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two required ace Soil Cracks (B6)
Depth (in Remarks: This data for Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wa	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa	/nrcs142 apply) ined Lea uuna (B1	ves (B9)	293.docx)	NRCS Field Indicator Seconda Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10)
Depth (in Remarks: This data for Errata. (http://www.primary.lndic	GY drology Indicators: eators (minimum of o Nater (A1) ter Table (A2) n (A3)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua	apply) ined Lea iuna (B1 tic Plant	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-s	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
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Depth (in Remarks: This data for Errata. (http://www.mer.) HYDROLO Wetland Hyder Primary Indice Surface Verimary Indice High Water Marker Ma	GY drology Indicators: eators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Ddor (C1 eres on I	(293.docx)	Seconda Surfa Drair Dry-S X Cray ots (C3) SACONDAIN	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
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Depth (in Remarks: This data for Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma	GY drology Indicators: eators (minimum of or Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea una (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron () Living Ro	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (in Remarks: This data for Errata. (http:// HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	GY drology Indicators: eators (minimum of co Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	/Internet/F	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7)) Living Ro	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyde Primary Indice Surface Water Management Sediment Drift Dep Algal Mallron Dep Inundatice X Sparsely	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: eators (minimum of co // vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave // vations:	ne is requesting magery (B	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron (tion in Ti (C7) a (D9)) _iving Ro (C4) Iled Soils	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Depth (in Remarks: This data for Errata. (http://www.mc.) HYDROLO Wetland Hyder Primary Indice Water Marks: Sediment Drift Depter Algal Malron Depter Inundation X Sparsely Field Obsert Surface Water Table Saturation Prime Pri	GY drology Indicators: eators (minimum of or Nater (A1) ter Table (A2) n (A3) earks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial II Vegetated Concave vations: er Present? Ye Present? Ye ersent? Ye	ne is requesting magery (B	ired; check all that X Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or N B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	ves (B9) 3) s (B14) Odor (C1 eres on I ced Iron ((C7) a (D9) emarks) nches): nches):) _iving Ro (C4) Iled Soils	Seconda	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
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Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/15/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WMWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	Γownship, Ra	inge:		
Landform (hillside, terrace, etc.):		!	Local relief (c	concave, convex, none):		
Slope (%): Lat: 39.081623		Long:	83.809621		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	t slopes				fication: PFO1A	
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No(If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrology:	significantly o	disturbed? F	_ ∖re "Normal 0	 Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach site ma						ures, etc.
Hydrophytic Vegetation Present? Yes X	o	Is the	Sampled A	rea		
	°	withir	n a Wetlandî	? Yes X	No	
Wetland Hydrology Present? Yes X No	<u> </u>					
Remarks:	00 044E00 a.	I \A/N A\A/O+A+	00.070646	00.040004		
Observations consistent with WMWet3: 39.077606, -	33.8115∠8 an	id vvivivvet4.	39.079040, -	83.818294		
VEGETATION – Use scientific names of pla						
VEGETATION — Use scientific flames of pia	Absolute	Dominant	Indicator	Г		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	rksheet:	
1. Quercus palustris	30	Yes	FACW	Number of Dominant	Species That	
2. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or F	AC:	6 (A)
3. Nyssa sylvatica	20	Yes	FAC	Total Number of Dom	•	·=\
4. Fagus grandifolia	20	Yes	FACU	Across All Strata:		8(B)
5	100	-Total Cover		Percent of Dominant S		00/ (A/D)
Sanling/Shruh Stratum (Dlat size:	100 =	=Total Cover		Are OBL, FACW, or F	AC: 15.	.0% (A/B)
Sapling/Shrub Stratum (Plot size:	20	Yes	FACU	Prevalence Index wo	srkehoot:	
Lindera benzoin	20	Yes	FACW	Total % Cover of		hv.
3.		100	17.01.	OBL species 10		0
4.				FACW species 50		00
5.				FAC species 60		80
	40 =	=Total Cover		FACU species 40	0 x 4 = 10	60
Herb Stratum (Plot size:)	<u> </u>			UPL species 0	x 5 = (0
1. Carex lurida	10	Yes	OBL	Column Totals: 16	`	50 (B)
2. Smilax rotundifolia	10	Yes	FAC	Prevalence Index :	= B/A = <u>2.81</u>	
3						
4				Hydrophytic Vegetat		
5.					· Hydrophytic Vegeta	ition
6.				X 2 - Dominance Te		
7. 8.					dex is ≤3.0° Adaptations¹ (Provid	do eunnortina
					s or on a separate s	
10.					ophytic Vegetation ¹	<i>'</i>
10	20 =	=Total Cover		¹ Indicators of hydric se	. ,	` ' /
Woody Vine Stratum (Plot size:)	•		be present, unless dis		
1.				Hydrophytic		
2.				Vegetation		
	:	=Total Cover		Present? Yes	X No	-
Remarks: (Include photo numbers here or on a separate	rate sheet.)		· · · · · · · · · · · · · · · · · · ·			

US Army Corps of Engineers

SOIL Sampling Point: WMWet1

1-5 10YR 5/2 100	tic Hydric Soils ³ :
5-12 7.5YR 5/1 60 7.5YR 5/8 40 C M Loamy/Clayey Prominent of Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	g, M=Matrix. tic Hydric Soils ³ :
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox Histosol (A2) Sandy Redox (S5) Iron-Manganese Mas Black Histic (A3) Stripped Matrix (S6) Red Parent Material Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark S Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Rer 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) 3Indicators of hydrophytic wetland hydrology must so from Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or personal Restrictive Layer (if observed): Type: Depth (inches): **Remarks:** This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata, (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) **HYDROLOGY** **Wetland Hydrology Indicators:** **Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (B15) Dry-Season Water Table (B15) Dry-Season Water Table (B16)	g, M=Matrix. tic Hydric Soils ³ :
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Restrictive Layer (if observed): Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY 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) X Water-Stained Leaves (B9) Surface Soil Cracks (B1) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B14) Dry-Season Water Table (B14) Saturation (B15) Saturation (B16) Saturation (B17) Secondary Indicators (B17) Secondary Indic	vegetation and
Restrictive Layer (if observed):	ist be present,
Type: Depth (inches): Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table	oblematic.
Depth (inches): Hydric Soil Present? Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table	
Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Ay Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table	
Remarks: This data form is revised from Midwest Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Ay Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table	resX No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of check all that apply) Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks of Cracks of Check all that apply) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (B14)	
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) X Water-Stained Leaves (B9) Surface Soil Cracks of	
Surface Water (A1) High Water Table (A2) Saturation (A3) X Water-Stained Leaves (B9) Aquatic Fauna (B13) Drainage Patterns (B Dry-Season Water Table (B14)	
High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Season Water Table (A2) Dry-Season Water Table (A2)	
Saturation (A3) True Aquatic Plants (B14) Dry-Season Water To	,
Water Marks (B1) Hydrogen Sulfide Odor (C1) X Crayfish Burrows (C8	•
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Processor (Balance (B2))	. ,
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed	riants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position Thin Mark Surface (O7)	(DO)
Iron Deposits (B5)Thin Muck Surface (C7)FAC-Neutral Test (D5	
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 X Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	
	5)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), il available.	5)
Remarks:	5)
	5)
	5)

Project/Site: Highland Solar		City/Cou	nty: Buford/l	Highland	Sampling Date:	12/15/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WMWet2
Investigator(s): M. Perkins, C. Brendel		Section, T	⊺ownship, Ra	ange:		
Landform (hillside, terrace, etc.):		!	Local relief (c	concave, convex, none):		
Slope (%): Lat: 39.08054		Long:	83.814217		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 percent	t slopes			NWI classif	fication: PFO1A	
Are climatic / hydrologic conditions on the site typical for	or this time c	of year?	Yes X	No (If no, exp	olain in Remarks.)	_
Are Vegetation, Soil, or Hydrologys	significantly (disturbed? F	ا Are "Normal C	 Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrology	naturally prol	blematic? (If needed, ex	ιρlain any answers in Rei	marks.)	
SUMMARY OF FINDINGS – Attach site ma						ures, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	°		e Sampled Ai n a Wetland?		No	
Remarks:						
I						
l						
VEGETATION – Use scientific names of pla						
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor		
1. Quercus palustris	30	Yes	FACW	Number of Dominant		
2. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or F	•	6 (A)
3. Nyssa sylvatica	20	Yes	FAC	Total Number of Dom		·
4.				Across All Strata:	•	6(B)
5				Percent of Dominant S	•	
<u>, , , , , , , , , , , , , , , , , , , </u>		=Total Cover		Are OBL, FACW, or F	AC: 100	<u>.0%</u> (A/B)
Sapling/Shrub Stratum (Plot size:				5		
1. 2.				Prevalence Index wo Total % Cover of		h.,,
				OBL species 10		0 0
4.				FACW species 60		
5.				FAC species 50		
		=Total Cover		FACU species 0		
Herb Stratum (Plot size:)				UPL species 0	x 5 = 0)
Carex vulpinoidea	20	Yes	FACW	Column Totals: 12	20 (A) 28	30 (B)
2. Scirpus atrovirens	10	Yes	OBL	Prevalence Index :	= B/A = <u>2.33</u>	
3. Leersia virginica	10	Yes	FACW			
4				Hydrophytic Vegetat		
5.					Hydrophytic Vegeta	tion
6.				X 2 - Dominance Te		
7. 8.					dex is ≤3.0 Adaptations¹ (Provid	N≏ sunnortina
<u> </u>					s or on a separate s	
10.					ophytic Vegetation ¹ (•
	40	=Total Cover		¹ Indicators of hydric se		
Woody Vine Stratum (Plot size:)			be present, unless dis		
1				Hydrophytic		
2.				Vegetation		
		=Total Cover		Present? Yes	No	<u></u>
Remarks: (Include photo numbers here or on a separ	rate sheet.)					

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SOIL Sampling Point: WMWet2

Depth	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 5/2	100					Loamy/Clayey	
5-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
		· — ·				_		
	-							
¹ Type: C=Co	oncentration, D=Dep	oletion RM:	=Reduced Matrix M	/S=Masl	ked Sand	Grains	² l ocation	 : PL=Pore Lining, M=Matrix.
Hydric Soil	•	olotion, raivi	Troduced Matrix, 1	ividei	nou ounc	oranio.		s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			t Prairie Redox (A16)
	pipedon (A2)		Sandy Red		()			Manganese Masses (F12)
Black His			Stripped M		3)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa		,			Shallow Dark Surface (F22)
<u> </u>	Layers (A5)		Loamy Mu		eral (F1)			(Explain in Remarks)
2 cm Mu	- :		Loamy Gle					(2Apielli III Frenchia)
	l Below Dark Surfac	e (A11)	X Depleted	-				
	rk Surface (A12)	0 (/ 11 1)	Redox Da	•	•		³ Indicator	s of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [ı		nd hydrology must be present,
	cky Peat or Peat (S	3)	Redox De			'		s disturbed or problematic.
Restrictive I	Layer (if observed)	:						
Type:								
Depth (ir	nches):						Hydric Soil Present	? Yes_X_ No
HYDROLO	IGY							
	drology Indicators: cators (minimum of		red: check all that	annly)			Secondar	y Indicators (minimum of two required
X Surface		one is requi	X Water-Sta		voc (RQ)		<u> </u>	ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa		, ,			age Patterns (B10)
X Saturation	, ,		True Aqua					Season Water Table (C2)
	arks (B1)		Hydrogen			١		ish Burrows (C8)
	it Deposits (B2)		Oxidized F		, ,			ration Visible on Aerial Imagery (C9)
	osits (B3)		Presence	•		U	` ' —	ed or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro		,	,		norphic Position (D2)
	osits (B5)		Thin Muck				· · · · · · · · · · · · · · · · · · ·	Neutral Test (D5)
	on Visible on Aerial l	magery (B			. ,			1104141 1001 (20)
	Vegetated Concave	• • •	· —		. ,			
	vegetated Concavi		<u> </u>					
Sparsely	vations:	es X	No	Depth (ii	nches):	5		
Sparsely Field Obser	vations: er Present? Ye	es X		Depth (ii Depth (ii	_	5		
Sparsely Field Obser Surface Wat	vations: er Present? Ye Present? Ye		No	Depth (ii Depth (ii Depth (ii	nches):		Wetland Hydrolog	gy Present? Yes X No
Sparsely Field Obser Surface Wat Water Table	vations: er Present? Yo Present? Yo resent? Yo	es X	No	Depth (ii	nches):	0	Wetland Hydrolog	gy Present? Yes X No
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	vations: er Present? Yo Present? Yo resent? Yo	es X	No	Depth (ii Depth (ii	nches): _ nches): _	0		gy Present? Yes X No
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	vations: er Present? Yo Present? Yo resent? Yo oillary fringe)	es X	No	Depth (ii Depth (ii	nches): _ nches): _	0		gy Present? Yes X No
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	vations: er Present? Yo Present? Yo resent? Yo oillary fringe)	es X	No	Depth (ii Depth (ii	nches): _ nches): _	0		gy Present? Yes <u>X</u> No
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	vations: er Present? Yo Present? Yo resent? Yo oillary fringe)	es X	No	Depth (ii Depth (ii	nches): _ nches): _	0		gy Present? Yes X No

Project/Site: Highland Solar		City/Cou	nty: Buford/	Highland	Sampling Date:	12/15/2017
Applicant/Owner: Hecate Energy LLC				State: OH	Sampling Point:	WNWet1
Investigator(s): M. Perkins, C. Brendel		Section, T	ownship, Ra	ange:		
Landform (hillside, terrace, etc.):		ا	Local relief (d	concave, convex, none):		
Slope (%): Lat: <u>39.077769</u>		Long:	83.820054		Datum: NAD83	
Soil Map Unit Name: Clermont silt loam, 0 to 1 perce	nt slopes			NWI classif	ication:	
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology	_significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes X No	
Are Vegetation, Soil, or Hydrology	_ naturally prob	olematic? (lf needed, ex	φlain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site n	nap showir	ng samplin	g point lo	ocations, transects,	important feat	ures, etc.
Hydric Soil Present? Yes X	No No		Sampled A		No	
Remarks:		I				
VEGETATION – Use scientific names of pl						
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1. Quercus palustris	10	No	FACW	Number of Dominant S		
2. Acer rubrum	30	Yes	FAC	Are OBL, FACW, or F	•	3(A)
3. Fagus grandifolia	30	Yes	FACU	Total Number of Domi	nant Species	
4				Across All Strata:		5(B)
5	70 :	=Total Cover		Percent of Dominant S	•	.0% (A/B)
Sapling/Shrub Stratum (Plot size:		- Total Cover		Are OBL, FACW, or F	AC. <u>60.</u>	. <u>0%</u> (A/B)
1. Fagus grandifolia	-′ 30	Yes	FACU	Prevalence Index wo	rksheet:	
2.				Total % Cover of:	: Multiply	by:
3				OBL species 20		20
4.				FACW species 30		<u> </u>
5	30	=Total Cover		FAC species 30 FACU species 60		9 <u>0</u> 40
Herb Stratum (Plot size:)		Total Gover		UPL species 0		0
1. Elymus virginicus	20	Yes	FACW	Column Totals: 14	0 (A) 4	10 (B)
2. Carex lurida	20	Yes	OBL	Prevalence Index =	= B/A = 2.93	
3.						
4 5.				Hydrophytic Vegetati	ion Indicators: Hydrophytic Vegeta	ntion
6.				X 2 - Dominance Te		illon
7.				X 3 - Prevalence Inc		
8.				4 - Morphological	Adaptations ¹ (Provi	de supporting
9.					s or on a separate s	· ·
10	_			Problematic Hydro	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:		=Total Cover		¹ Indicators of hydric so be present, unless dis		
1.				Hydrophytic		
2		-Total O		Vegetation	V N-	
		=Total Cover		Present? Yes_	No	
Remarks: (Include photo numbers here or on a sep	arate sheet.)					

US Army Corps of Engineers

SOIL Sampling Point: WNWet1

Depth	Matrix		Redu	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 4/3	100					Loamy/Clayey	
5-12	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
					_			
	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle		ix (S4)			st Prairie Redox (A16)
_	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black Hi	` '		Stripped M	•	5)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu				Othe	r (Explain in Remarks)
2 cm Mu	` '		Loamy Gle	yed Mat	rix (F2)			
	Below Dark Surface	∍ (A11)	X Depleted N	,	•		•	
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicato	rs of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted I)		and hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	Redox Dep	oressions	s (F8)		unles	ss disturbed or problematic.
Restrictive I	_ayer (if observed):							
_								
Type:								
Depth (ir Remarks: This data for	· · ·	-						s of Hydric Soils, Version 7.0, 2015
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	-					NRCS Field Indicator	
Depth (ir Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov	//Internet/F					NRCS Field Indicator	
Depth (in Remarks: This data for Errata. (http://www.defand.com/defands/defand	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators:	//Internet/F	SE_DOCUMENTS	/nrcs142			NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http:	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of c	//Internet/F	SE_DOCUMENTS	/nrcs142	p2_0512	293.docx)	NRCS Field Indicator	s of Hydric Soils, Version 7.0, 2015
Depth (in Remarks: This data for Errata. (http::	m is revised from Mi //www.nrcs.usda.gov PGY drology Indicators: cators (minimum of co	//Internet/F	ired; check all that	/nrcs142 apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicator Seconda	s of Hydric Soils, Version 7.0, 2015 ry Indicators (minimum of two require ace Soil Cracks (B6)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of co Water (A1) ter Table (A2)	//Internet/F	ired; check all that a X Water-Stai	apply) ined Lea	ves (B9)	293.docx)	NRCS Field Indicator Seconda Surfa	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Primary India Surface High Wa Saturation	m is revised from Mi //www.nrcs.usda.gov GY drology Indicators: cators (minimum of company of the company of	//Internet/F	ired; check all that a X Water-Stal Aquatic Fa	apply) ined Lea auna (B1; itic Plants	ves (B9) 3) s (B14)	293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1)	//Internet/F	ired; check all that a X Water-Star Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1: tic Plants Sulfide C	ves (B9) 3) s (B14) Odor (C1)	(293.docx)	NRCS Field Indicator Seconda Surfa Drair Dry-4 X Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2)	//Internet/F	ired; check all that a way water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1: Sulfide C Rhizospho	ves (B9) 3) s (B14) Odor (C1) eres on I	(293.docx)	Seconda Surfa Drair Dry-s X Cray ots (C3) SACONDA SACO	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of control of co	//Internet/F	ired; check all that a water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1: tic Plants Sulfide C Rhizospho	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron () Living Ro (C4)	Seconda Surfa Drain Dry- X Cray ots (C3) Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of control of co	//Internet/F	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro	apply) ined Lea auna (B1: tic Plants Sulfide C Rhizospho of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Ti) Living Ro (C4)	Seconda Surfa Drain Dry-\ X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hyde Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of control of co	//Internet/F	ired; check all that a X Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck	apply) ined Lea auna (B1: tic Plants Sulfide C Rhizospho of Reduc n Reduc Surface	ep2_0512 eves (B9) s (B14) eves on Leed Iron (find in Ti (C7)) Living Ro (C4)	Seconda Surfa Drain Dry-\ X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two required ace Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio	m is revised from Mi //www.nrcs.usda.gov drology Indicators: cators (minimum of of Mater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial I	nne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized For Presence Recent Iro Thin Muck	apply) ined Lea auna (B1: tic Plants Sulfide C Rhizospho of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Surfa Drain Dry-\ X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
Depth (ir Remarks: This data for Errata. (http: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	m is revised from Mi //www.nrcs.usda.gov IGY drology Indicators: cators (minimum of control of co	nne is requi	ired; check all that a X Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized For Presence Recent Iro Thin Muck	apply) ined Lea auna (B1: tic Plants Sulfide C Rhizospho of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Ti (C7) a (D9)) Living Ro (C4) Iled Soils	Seconda Surfa Drain Dry-\ X Cray ots (C3) Satu Stun (C6) Geor	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Project/Site: Highland	d Solar		City/Cou	inty: Buford/	Highland	Sampling Date:	12/15/2017
Applicant/Owner:	Hecate Energy LLC				State: OH	Sampling Point:	WJ/LUp1
Investigator(s): M. Pe	rkins, C. Brendel		Section, 7	Township, Ra	ange:		
Landform (hillside, te	rrace, etc.):		-	Local relief (concave, convex, none):_		
Slope (%):	Lat: <u>39.085324</u>		Long: -	83.799378	!	Datum: NAD83	
Soil Map Unit Name:	Clermont silt loam, 0 to 1 pe	rcent slopes	<u> </u>	<u> </u>	NWI classifi	ication: NA	<u> </u>
Are climatic / hydrolo	gic conditions on the site typi	ical for this time	of year?	Yes X	No(If no, exp	lain in Remarks.)	
Are Vegetation	, Soil, or Hydrology	significantly	disturbed? /	—— ۹re "Normal (Circumstances" present?	Yes X No)
	, Soil , or Hydrology				xplain any answers in Rer	<u></u>	
	FINDINGS – Attach site			ng point lo	ocations, transects,	important fea	tures, etc.
Hydric Soil Present? Wetland Hydrology I		No X No X		e Sampled A n a Wetland		No <u>X</u>	
Remarks: Observations typical	ıl to WMUp1: 39.082823, -83.	.809729; WM/NL	Jp1: 39.078608	3, -83.819274	4		
VEGETATION -	Use scientific names of	f plants.	-			,	-
To a Otrophyma	(Platata)	Absolute		Indicator	Demineration Took was	1 14.	
Tree Stratum 1.	(Plot size:)	% Cover	Species?	Status	Dominance Test wor		
2			. ——		Number of Dominant S Are OBL, FACW, or FA	•	0 (A)
2					Total Number of Domi	·	
4					Across All Strata:		1 (B)
5.		<u> </u>	· 		Percent of Dominant S	•	
		. ——	=Total Cover		Are OBL, FACW, or F	AC: <u>0</u> ,	.0% (A/B)
Sapling/Shrub Stratu)			Describer of Index we	-1b	
					Prevalence Index wo Total % Cover of:		bu
2					OBL species 0		0
1					FACW species 0		0
5.			-		FAC species 0		0
			=Total Cover		FACU species 0		0
Herb Stratum	(Plot size:	-	•		UPL species 10		500
1. Glycine max		100	Yes	UPL	Column Totals: 10		500 (B)
2.					Prevalence Index =	= B/A = 5.00	
_							
4					Hydrophytic Vegetati		
						Hydrophytic Vegeta	ation
					2 - Dominance Te		
· · · · · · · · · · · · · · · · · · ·					3 - Prevalence Ind		
			. ——		l — ' ' '	Adaptations ¹ (Provi s or on a separate	
						ophytic Vegetation ¹	
10		100	=Total Cover		I -		, , ,
Woody Vine Stratum	<u>n</u> (Plot size:		- TOLAI GOVE		¹ Indicators of hydric so be present, unless dist		
1						turboa or proble	110.
2.					Hydrophytic Vegetation		
			=Total Cover		Present? Yes_	No_X	
Remarks: (Include)	photo numbers here or on a s	senarate sheet.)			_		
		,					

US Army Corps of Engineers

SOIL Sampling Point: WJ/LUp1

Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1-5	10YR 4/3	100					Loamy/Clayey	
5-13	7.5YR 5/1	60	7.5YR 5/8	40	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
					_	_		
¹ Type: C=C	 oncentration, D=Dep	Letion, RM	=Reduced Matrix, N	—— //S=Masl	ed Sand	Grains.	2Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	· · · · · · · · · · · · · · · · · · ·	·					rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Matı	ix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)			Iron-l	Manganese Masses (F12)
Black His	stic (A3)		Stripped M	1atrix (S6	5)		Red	Parent Material (F21)
— Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)		_	
 Depleted	l Below Dark Surface	e (A11)	X Depleted N	Matrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dai	rk Surfac	e (F6)		³ Indicator	rs of hydrophytic vegetation and
 Sandy M	lucky Mineral (S1)		Depleted [Dark Surf	face (F7)	ı	wetla	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pressions	s (F8)		unles	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present	? Yes_X_ No
	m is revised from Mi //www.nrcs.usda.gov	-						s of Hydric Soils, Version 7.0, 2015
This data for Errata. (http:	//www.nrcs.usda.gov	-						s of Hydric Soils, Version 7.0, 2015
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This data for Errata. (http://www.http://www	J/www.nrcs.usda.gov DGY drology Indicators: cators (minimum of co	/Internet/F	SE_DOCUMENTS ired; check all that Water-Sta	apply)	ves (B9)	293.docx)	Secondal Surfa	ry Indicators (minimum of two required ace Soil Cracks (B6)
This data for Errata. (http://www.http://www	JOGY drology Indicators: cators (minimum of compater (A1) tter Table (A2)	/Internet/F	ired; check all that Water-Sta Aquatic Fa	apply) ined Lea	ves (B9)	293.docx)	<u>Seconda</u> Surfa Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) aage Patterns (B10)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio	OGY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1	ves (B9) 3) s (B14)	293.docx)	Secondal Surfa Drair	ry Indicators (minimum of two required ace Soil Cracks (B6) aage Patterns (B10) Geason Water Table (C2)
HYDROLO Wetland Hyd Primary India Surface ' High Wa Saturatic Water M	JOGY drology Indicators: eators (minimum of comparts) Water (A1) ter Table (A2) on (A3) arks (B1)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plants	ves (B9) 3) s (B14) Odor (C1	(293.docx)	Secondal Surfa Drair Dry-5 Cray	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen	JOGY drology Indicators: cators (minimum of company) Water (A1) ter Table (A2) on (A3) arks (B1) the Deposits (B2)	/Internet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1 titic Plants Sulfide C	ves (B9) 3) s (B14) Odor (C1 eres on I	(293.docx)	Secondal Surfa Drair Dry-S Cray ots (C3) Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
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HYDROLO Wetland Hyd Primary India Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of control (Ma) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) osits (B5)	nternet/F	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc	ep2_0512 vves (B9) 3) s (B14) Odor (C1 eres on I ded Iron (tion in Ti (C7)	(293.docx)	Secondal Surfa Drair Dry-S Cray Ots (C3)	ry Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
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Project/Site: Highland Solar		(City/Count	ty: Highland	1	Sampling Date: 12/20/2017
Applicant/Owner: Hecate Energy, LLC				OHE COLUMN	State: Ohio	Sampling Point: WO
Investigator(s): M. Perkins, C. Brendel			Section, T	ownship, Rar	nge:	
Landform (hillslope, terrace, etc.):						
Slope (%): Lat: 39.091196						
Soil Map Unit Name: Clermont silt loam					NWI classific	
Are climatic / hydrologic conditions on the s				5 100		
Are Vegetation, Soil, or Hyd						present? Yes X No
Are Vegetation, Soil, or Hyd	drology n	aturally pro	blematic?	(If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Atta	ch site map s	showing	sampli	ng point lo	ocations, transects	, important features, etc.
	Yes X No	·				
CONTROL CONTROL SERVICE AND	\/			the Sampled		No
	Yes X No	·	wit	thin a Wetlan	id? Yes _/\	No
Remarks:						
VEGETATION – Use scientific nar	nes of plants.					
Tree Street - (Blet size)	`	Absolute		nt Indicator	Dominance Test work	
Tree Stratum (Plot size:	_)	40	Yes	? Status FAC	Number of Dominant S That Are OBL, FACW,	
Liquidambar styraciflua		20	Yes	FACW	THE MALE STANDARD STANDARD STANDARD SALES AND STANDARD WITH STANDARD	.,
3. Quercus palustris		20	Yes	FACW	Total Number of Domir Species Across All Stra	E
4			5.0			3-7
5.					Percent of Dominant S That Are OBL, FACW,	
		80	= Total C	over	7	
Sapling/Shrub Stratum (Plot size:)	00	V	EAGNA	Prevalence Index wor	
					Total % Cover of:	
2.					OBL species 90	x 1 = x 2 = 180
3.						x 3 = 120
4					Vi 1772	x 4 =
5		20	= Total C	over	UPL species	x 5 =
Herb Stratum (Plot size:)		Total O	0101	Column Totals: 130	(A) 300 (B)
Leersia virginica		30	Yes	FACW		
2.					Prevalence Index	
3				- (Hydrophytic Vegetati	
4					Marie Co.	Hydrophytic Vegetation
5					2 - Dominance Tes 3 - Prevalence Ind	
6					4 Morphological	Adaptations ¹ (Provide supporting
7					data in Remark	s or on a separate sheet)
8				_	Problematic Hydro	phytic Vegetation ¹ (Explain)
9						
10.			= Total C	over		il and wetland hydrology must
Woody Vine Stratum (Plot size:)		- Total O	OVCI	be present, unless dist	urbed or problematic.
1					Hydrophytic	
2.			-	_	Vegetation Present? Ye	es_XNo
			= Total C	over	, resentr Te	
Remarks: (Include photo numbers here of	or on a separate s	sheet.)				

	1410
Point	WO

epth	Matrix	The state of the s		x Featur		1 2	Tordore	Remarks
nches)	Color (moist)	<u>%</u>	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
12	7.5YR 6/1	70	7.5YR 5/8	_ 30	<u>C</u>	<u>M</u>	C/L	
		-0		-	_		· <u> </u>	
ne: C=Co	acentration D=Det	letion RM=	Reduced Matrix, M	S=Maske	ed Sand G	rains.	² Location: 1	PL=Pore Lining, M=Matrix.
dric Soil Ir		oletion, rain	Troubout Marin, I				Indicators fo	or Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy	Gleyed M	fatrix (S4)		NET CHINASII V	airie Redox (A16)
Histic Epi	ipedon (A2)			Redox (S				face (S7)
_ Black His				d Matrix				iganese Masses (F12)
TO 157/ 1570	Sulfide (A4)				lineral (F1)			allow Dark Surface (TF12) xplain in Remarks)
	Layers (A5)		X Deplet		Matrix (F2)		Other (E	Apiani in Nemarks)
_ 2 cm Mud	Salahan - Maka manasan masa-	o (A11)			face (F6)			
	Below Dark Surface (A12)	æ (ATT)			Surface (F7	′)	3Indicators o	f hydrophytic vegetation and
	rk Surface (A12) ucky Mineral (S1)			Depress				nydrology must be present,
- 5	cky Peat or Peat (S	33)			V 7/			isturbed or problematic.
	ayer (if observed)			H				
Туре:							Hudrin Sail D	recent? Ves X No
Depth (inc	:hes):						Hydric Soil P	resent? Yes X No
Depth (inc emarks:	hes):						Hydric Soil P	resent? Yes X No
Depth (incommerks:	GY						Hydric Soil P	resent? Yes X No
Depth (inc Remarks: YDROLO	GY drology Indicators	:		apply)				y Indicators (minimum of two requi
Depth (incomercial contents) /DROLOG /etland Hydrimary Indicomercial contents // DROLOG	GY drology Indicators	:	red: check all that a		aves (B9)		Secondary	y Indicators (minimum of two requi
Depth (incommarks: /DROLOG /etland Hydrimary Indicommary Indicommarks	GY drology Indicators cators (minimum of	:	red: check all that a	ained Lea			Secondary Surface	y Indicators (minimum of two requi ce Soil Cracks (B6)
Depth (incomercial contents) //DROLOG //etland Hydrimary Indicomercial contents Surface Ingh Wa	GY drology Indicators ators (minimum of Water (A1) tter Table (A2)	:	red; check all that a X Water-St Aquatic f	ained Lea	13)		Secondary Surfar	y Indicators (minimum of two requi
Depth (incomments: DROLOGIETISM D	GY drology Indicators cators (minimum of Water (A1) ther Table (A2) on (A3)	:	red: check all that a X Water-St Aquatic f	ained Lea Fauna (Br uatic Plan	13) ts (B14)		Secondary Surface Draine	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) deason Water Table (C2)
Depth (incommarks: DROLOG Vetland Hydrimary Indicommary Indicates Indica	GY drology Indicators sators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1)	:	red: check all that a X Water-SI Aquatic f True Aqu Hydroge	ained Lea Fauna (B uatic Plan n Sulfide	13) ts (B14) Odor (C1)	iving Root	Secondary Surface Draine Dry-S X Crayfi	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8)
Pepth (incomments: POROLOGY Vetland Hydromary Indicomments Surface of High Water Managements Water Managements Sediments	GY drology Indicators cators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2)	:	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized	ained Lea auna (Bruatic Plan n Sulfide Rhizospl	13) ts (B14) Odor (C1) neres on L		Secondari Surfac Draini Dry-S X Crayfi s (C3) Saturi	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS
Depth (incomments: "DROLOG Vetland Hydrimary Indicomments High Water M Saturation Water M Sediments Drift Dep	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) ent Deposits (B2) posits (B3)	:	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized	ained Lea Fauna (B' uatic Plan n Sulfide Rhizospi e of Redu	ts (B14) Odor (C1) heres on L ced Iron (C	(4)	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1)
Depth (incomments: Depth	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) earks (B1) on Deposits (B2) posits (B3) at or Crust (B4)	:	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized Presenct	ained Lea Fauna (B' uatic Plan n Sulfide l Rhizospl e of Redu ron Redu	ts (B14) Odor (C1) heres on L ced Iron (C	(4)	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
/DROLOG /etland Hydrimary Indice Surface High Wat X Saturation Water M Sedimen Drift Dep Algal Ma Iron Dep	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) et Deposits (B2) posits (B3) et or Crust (B4) posits (B5)	: one is requi	red: check all that a X Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Lea Fauna (B' uatic Plan n Sulfide Rhizosple of Redu ron Redu ck Surface	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7)	(4)	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1)
/DROLOG //DROLOG //Etland Hydrimary Indice	GY drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) on (Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria	: one is requi	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Mu T) Gauge o	ained Lea Fauna (B' uatic Plan n Sulfide l Rhizospl e of Redu ron Redu ck Surface r Well Da	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9)	(4)	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
Depth (incomments: //DROLOG //etland Hydrimary Indicomments Surface High Water M Sediment Drift Depth Algal Mallron Depth Inundation Sparsely	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) et Deposits (B2) exposits (B3) et or Crust (B4) exposits (B5) en Visible on Aeria eter Vegetated Conca	: one is requi	red: check all that a X Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Lea Fauna (B' uatic Plan n Sulfide l Rhizospl e of Redu ron Redu ck Surface r Well Da	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9)	(4)	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
Depth (incommarks: DROLOG Vetland Hydrimary Indicommary Indicated Indi	GY drology Indicators cators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) con Visible on Aeria y Vegetated Conca vations:	: one is requi	red: check all that a X Water-St Aquatic F True Aqu Hydroge Oxidized Presence Recent I Thin Mu 7) Gauge o B8) Other (E	ained Lei- Fauna (B' Fauna	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	c4) ed Soils (C	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
Depth (incomments: (DROLOG) Vetland Hydrimary Indicomments Surface of High Water Managements Water Managements Joint Deptements Iron Deptements Inon Dep	GY drology Indicators cators (minimum of Water (A1) ther Table (A2) on (A3) arks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aeria of Vegetated Conca vations: er Present?	: one is requi Imagery (B ve Surface (red: check all that a X Water-St Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Med T) Gauge o B8) Other (E	ained Le: Fauna (B' patic Plan n Sulfide Rhizospl e of Redu ron Redu ck Surfac r Well Da xplain in l	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	C4) ed Soils (C	Secondary Surface Drains Dry-S X Crayfi s (C3) Sature Stunte C6) Geom	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
Principles of the Nater Table Saturation Principles of the Nater Table	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? resent?	: One is requi	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc T) Gauge o B8) Other (E No X Depth (No Depth (ained Le: Fauna (B' patic Plan n Sulfide Rhizosple of Redu ron Redu ck Surfac r Well Da xplain in l inches): _inches): _inches): _	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	C4) ed Soils (C	Secondary Surface Draine Dry-S X Crayfice Stunte C6) Geom FAC-	y Indicators (minimum of two requi ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (CS ed or Stressed Plants (D1) norphic Position (D2)
Primary Indice Wetland Hyde Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obsen Surface Water Table Saturation Princludes car	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? resent?	: One is requi	red: check all that a X Water-St Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Mu T) Gauge of B8) Other (E	ained Le: Fauna (B' patic Plan n Sulfide Rhizosple of Redu ron Redu ck Surfac r Well Da xplain in l inches): _inches): _inches): _	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	C4) ed Soils (C	Secondary Surface Draine Dry-S X Crayfice Stunte C6) Geom FAC-	y Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Depth (incommarks: (DROLOG) (etland Hydrimary Indicommary Indicated Indicated Indicated Indicated Indicated Indicated Indicated Indicommary Indicated Indicated Indicated Indicated Indicated Indicated Indicate	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria y Vegetated Conca vations: er Present? Present? resent?	: One is requi	red: check all that a X Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc T) Gauge o B8) Other (E No X Depth (No Depth (ained Le: Fauna (B' patic Plan n Sulfide Rhizosple of Redu ron Redu ck Surfac r Well Da xplain in l inches): _inches): _inches): _	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	C4) ed Soils (C	Secondary Surface Draine Dry-S X Crayfice Stunte C6) Geom FAC-	y Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Project/Site: Highland Solar		/	City/County: Highland	1	Sampling Date: 12/20/2018
Applicant/Owner: Hecate Energy, L					Sampling Point: WO-UP
Investigator(s): M. Perkins, C. Brer					
Landform (hillslope, terrace, etc.):					
Slope (%): Lat: 39.091					
Soil Map Unit Name: Clermont silt le					cation: NA
Are climatic / hydrologic conditions on	the site typical for th	is time of ye	ar? Yes X No_	(If no, explain in F	Remarks.)
Are Vegetation, Soil, o	r Hydrology	significantly	disturbed? Are "I	Normal Circumstances"	present? Yes X No
Are Vegetation, Soil, o	r Hydrology	naturally pro	blematic? (If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - A				ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes N	No X			
Hydric Soil Present?	Yes N	40 X	Is the Sampled		~
Wetland Hydrology Present?	Yes N	No _X	within a Wetlan	id? Yes	No <u>X</u>
Remarks:					
VEGETATION - Use scientific	names of plants	S.			
		Absolute		Dominance Test wor	ksheet:
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant S	Species
1				That Are OBL, FACW,	or FAC: 0 (A)
2		-		Total Number of Domi	nant
3				Species Across All Str	rata: 0 (B)
4				Percent of Dominant S	Species
5				That Are OBL, FACW,	, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Prevalence Index wo	rksheet:
1				Total % Cover of:	Multiply by:
2.				OBL species	x 1 =
3.				FACW species	x 2 =
4.				FAC species	x 3 =
5					x 4 =
			= Total Cover		x 5 = 500
Herb Stratum (Plot size:		100	Yes UPL	Column Totals: 100	(A) <u>500</u> (B)
		_ 100	165 011	Prevalence Inde	x = B/A = 5
2.				Hydrophytic Vegetat	
3					Hydrophytic Vegetation
4				2 - Dominance Te	
5 6				3 - Prevalence Inc	
7.				4 - Morphological	Adaptations ¹ (Provide supporting
8.				data in Remark	ks or on a separate sheet)
9.				Problematic Hydro	ophytic Vegetation ¹ (Explain)
10.					
19000		100	= Total Cover	'Indicators of hydric so be present, unless dis	oil and wetland hydrology must sturbed or problematic.
Woody Vine Stratum (Plot size:				11.22.2	
1				Hydrophytic Vegetation	5.77
2			= Total Cover	Present? Y	es No _X_
Remarks: (Include photo numbers h	ere or on a separate	sheet.)			

COIL	

Sampling Point: WO-UP

Depth Matrix	h needed to document the indicator or con	10011100 D0150 T015 E0015 E005 E0015 E0015 E005 E005 E00
	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc	² Texture Remarks
0-12 10YR 6/4		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:	-	x
Depth (inches):		Hydric Soil Present? Yes No _X_
Remarks:		
LIVERGIAGO		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is require		
SEED TO THE SECOND PROPERTY OF A SECOND PROPERTY OF	ed: check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	ed: check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	William of patential and paten	
Public sales in the Windows State St	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) 	Surface Soil Cracks (B6)Drainage Patterns (B10)Dry-Season Water Table (C2)Crayfish Burrows (C8)
High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9)Aquatic Fauna (B13)True Aquatic Plants (B14)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc 	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
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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 (BField Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) sots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) s (C6) Geomorphic Position (D2)
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Project/Site: Highland Solar	1	Sampling Date:	12/20/2017			
Applicant/Owner: Hecate Energy, LLC				State: Ohio		
		Section, Township, Range:				
Landform (hillslope, terrace, etc.):	-		Local relief	(concave, convex, none):		
Soil Map Unit Name: Clermont silt loam, 0 to 1 percen				NWI classific		
Are climatic / hydrologic conditions on the site typical for this		ar? Yes		The desired state of the second state of the s	070,400 1700 1	
Are Vegetation X, Soil X, or Hydrology X s				Normal Circumstances" p		< No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic	? (If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sampl	ling point le	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes X N	0			_		
	0	0.00	the Sampled		No	
Wetland Hydrology Present? Yes X N	0	w	rithin a Wetlan	id? Yes	No	_
Remarks:						
WP Wet 2: 39.096747, -83.814122 WP is located in an old agricultural field.						
WP is located in an old agricultural field.						
VEGETATION – Use scientific names of plants.						
T. Charles (District	Absolute		ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:) 1. Platanus occidentialis	10	Yes	s? Status FACW	Number of Dominant S That Are OBL, FACW,		(A)
	10	Yes	FACW	That Are OBL, FACW,	BIFAC. 0	(^)
Quercus palustris 3.				Total Number of Domin	0	(B)
4.				Species Across All Stra	ita.	(b)
5	-	-		Percent of Dominant St That Are OBL, FACW,		(A/B)
0.	20	= Total (Cover	That Are OBL, FACW,	bi PAC.	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	ksheet:	
1. Cornus sericea	30	Yes	FACW	Total % Cover of:		oly by:
2.				OBL species 30	x 1 = 30	10
3				FACW species 50	x 2 = 10	1
4				FAC species 30	x 3 = 90	
5				FACU species	x 4 =	10
U. J. Olastona (Classical)	30	= Total (Cover	UPL species 80	$\times 5 = \frac{40}{37}$	10
Herb Stratum (Plot size:) 1. Schoenoplectus tabernaemontani	10	Yes	OBL	Column Totals: 190	(A) <u>37</u>	(B)
2 Juncus effusus	20	Yes	OBL	Prevalence Index	= B/A = 3.3	
3 Setaria pumila	30	Yes	FAC	Hydrophytic Vegetation		
4 Rosa multiflora	30	Yes	UPL	1 - Rapid Test for I	Hydrophytic Vege	tation
5. Glycine max	50	Yes	UPL	X 2 - Dominance Tes		
6.				3 - Prevalence Inde	ex is ≤3.0 ¹	
7				4 - Morphological A		
8.				N 0022 00 20 20 20 20 20 20 20 20 20 20 2	s or on a separate	
9.				Problematic Hydro	phytic Vegetation	(Explain)
10.						
	140	= Total	Cover	¹ Indicators of hydric so be present, unless disti		0,
Woody Vine Stratum (Plot size:)						
1				Hydrophytic		
2				Vegetation Present? Ye	s_XNo_	
		= Total	Cover			
Remarks: (Include photo numbers here or on a separate	sneet.)					

Sampling	Point	WP
Ou. 19 9		

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	maicator	Or Commi	Il file anserice	or maroctoro.,
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture	Remarks
0-12	7.5YR 6/2	60	7.5YR 5/8	40	_ <u>C</u>	<u>M</u>	L/C	
	d							
				-	-		-	
1T C=C		olotion PM	=Reduced Matrix, M	S=Maske	ed Sand G	rains	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil		Jietion, Kivi-	-Neduced Matrix, M	O WIGON	d odna o	an io.	Mark to the second seco	for Problematic Hydric Soils ³ :
Histosol			Sandy	Gleved N	latrix (S4)		Coast	Prairie Redox (A16)
	pipedon (A2)			Redox (S			Dark S	surface (S7)
	istic (A3)		- CONTRACTOR - CON	d Matrix				anganese Masses (F12)
	en Sulfide (A4)		Loamy	Mucky M	lineral (F1))		hallow Dark Surface (TF12)
	d Layers (A5)				Matrix (F2)		Other	(Explain in Remarks)
	uck (A10)		X Deplet					
	d Below Dark Surfa	ce (A11)		Dark Sur		7)	3 _{Indiantee}	of hydrophytic vegetation and
	ark Surface (A12)				Surface (F7	()		d hydrology must be present,
	Mucky Mineral (S1)	201	Redox	Depressi	ons (Fo)			disturbed or problematic.
and the second second	ucky Peat or Peat (S Layer (if observed			10-76-6	15		1	
Restrictive	Layer (II observed	,.						
-							Hydric Soil	Present? Yes X No
Type:								
	ches):							
Depth (in Remarks:								
Depth (in Remarks:	OGY							
Depth (in Remarks: HYDROLO Wetland Hy	OGY odrology Indicators	:					Second	any Indicators (minimum of two required)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind	OGY /drology Indicators icators (minimum of	:	ired; check all that a					ary Indicators (minimum of two required)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface	OGY odrology Indicators icators (minimum of water (A1)	:	Water-St	ained Lea			Sur	face Soil Cracks (B6)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W	OGY rdrology Indicators icators (minimum of e Water (A1) later Table (A2)	:	Water-St Aquatic I	ained Lea Fauna (B1	13)		Sur Dra	face Soil Cracks (B6) inage Patterns (B10)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat	OGY /drology Indicators icators (minimum of e Water (A1) /dater Table (A2) ion (A3)	:	Water-St Aquatic I True Aqu	ained Lea auna (B1 uatic Plan	13) ts (B14)		Sur Dra Dry	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I	order (A1) Jater Table (A2) Join (A3) Marks (B1)	:	Water-St Aquatic f True Aqu Hydroge	ained Lea Fauna (B1 uatic Plan n Sulfide	13) ts (B14) Odor (C1)		Sur Dra Dry Cra	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) lyfish Burrows (C8)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime	OGY /drology Indicators icators (minimum of water (A1) /ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)	:	Water-St Aquatic f True Aqu Hydroge Oxidized	ained Lea auna (B1 uatic Plan n Sulfide Rhizospl	I3) ts (B14) Odor (C1) heres on L	iving Roots	Sur Dra Dry X Cra s (C3) Sat	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) infish Burrows (C8) uration Visible on Aerial Imagery (C9)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De	OGY /drology Indicators icators (minimum of water (A1) /dater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	:	Water-SI Aquatic f True Aqu Hydroge Oxidized	ained Lea Fauna (B1 uatic Plan n Sulfide Rhizospl e of Redu	ts (B14) Odor (C1) heres on L ced Iron (iving Roots C4)	Sur Dra Dry Cra s (C3) Sat Stu	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De	order of the control	:	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I	ained Lea Fauna (B' uatic Plan n Sulfide Rhizospl e of Redu ron Redu	ts (B14) Odor (C1) heres on L ced Iron (C	iving Roots C4)	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De	order of the control	s: one is requ	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I	ained Lea Fauna (B1 uatic Plan n Sulfide Rhizospl e of Redu ron Reduck Surface	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7)	iving Roots C4)	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda	order of the control	one is requ	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Lea Fauna (B1 Juatic Plan In Sulfide Rhizospl e of Redu ron Redu ck Surface Ir Well Da	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9)	iving Roots C4)	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse	order of the control	one is requ	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Lea Fauna (B1 Juatic Plan In Sulfide Rhizospl e of Redu ron Redu ck Surface Ir Well Da	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9)	iving Roots C4)	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse	order of the control	one is requi	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc 37) Gauge o (B8) Other (E	ained Lea Fauna (B' Fauna	ts (B14) Odor (C1) heres on L ced Iron (C ction in Till e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Wa	order of the control	one is requi	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B8) Other (E	ained Lea auna (B' autic Plan in Sulfide Rhizospl e of Redu ron Redu ck Surface ir Well Da xplain in l	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dra Dry X Cra St(C3) Sat Stu C6) Geo	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Water Table	order of the control	one is requi		ained Lea auna (B' autic Plan in Sulfide Rhizosple of Reduron Reduron ck Surfactor Well Da xplain in lonches):	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Wa Water Table Saturation	pogy Indicators Indic	I Imagery (Eve Surface Yes Yes Yes	Water-SI Aquatic f True Aqu Hydroge Oxidized Presence Recent I Thin Muc (B8) Other (E	anined Lease and	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu C6) Get FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) comorphic Position (D2)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Water Table Saturation (includes ca Describe R	pogy Indicators Indic	I Imagery (Eve Surface Yes Yes Yes	Water-St	anined Lease and	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu C6) Get FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) iomorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Wa Water Table Saturation	pogy Indicators Indic	I Imagery (Eve Surface Yes Yes Yes	Water-St	anined Lease and	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu C6) Get FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) iomorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Water Table Saturation (includes ca Describe R	pogy Indicators Indic	I Imagery (Eve Surface Yes Yes Yes	Water-St	anined Lease and	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu C6) Get FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) iomorphic Position (D2) C-Neutral Test (D5)
Depth (in Remarks: HYDROLO Wetland Hy Primary Ind Surface High W X Saturat Water I Sedime Drift De Algal M Iron De Inunda Sparse Field Obse Surface Water Table Saturation (includes ca Describe R	pogy Indicators Indic	I Imagery (Eve Surface Yes Yes Yes	Water-St	anined Lease and	ts (B14) Odor (C1) heres on L ced Iron (C ction in Til e (C7) ta (D9) Remarks)	iving Roots C4) led Soils (C	Sur Dry Cra St Stu C6) Get FAG	face Soil Cracks (B6) iinage Patterns (B10) -Season Water Table (C2) iyfish Burrows (C8) uration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) iomorphic Position (D2) C-Neutral Test (D5)

Project/Site: Highland Solar		(City/Co	ounty:	Highland	d	_ Sampling	Date: 12/20	/2017
Applicant/Owner: Hecate Energy, LL							Sampling	Point: WP-L	JP
Investigator(s): M. Perkins, C. Brend	iel		Section	n, Tov	wnship, Rai	nge:			
Landform (hillslope, terrace, etc.):				ι	ocal relief	(concave, convex, none	e):		
Slope (%): Lat: 39.0971						31			
Soil Map Unit Name: Clermont silt loa			160 02			NWI classif			
Are climatic / hydrologic conditions on th	e site typical for	this time of year	ar? Ye	es _>	< No _	(If no, explain in	Remarks.)		
Are Vegetation, Soil, or I	Hydrology	_ significantly	disturb	ed?	Are "	Normal Circumstances"	present?	Yes X	No
Are Vegetation, Soil, or I	-lydrology	_ naturally pro	blemat	tic?	(If ne	eded, explain any answ	ers in Rema	arks.)	
SUMMARY OF FINDINGS - A	tach site ma	p showing	sam	pling	g point le	ocations, transect	s, impor	tant feature	es, etc.
Hydrophytic Vegetation Present?	Yes	No_X							
Hydric Soil Present?	Yes X	No	1		e Sampled		No	×	
Wetland Hydrology Present?	Yes	No		Withi	in a Wetlar	ior res	NO		
Remarks:									
VECETATION . He existificati	amas of plan	ıto.							
VEGETATION – Use scientific r	lames of plan	Absolute	Domi	inant	Indicator	Dominance Test wo	rkshoot.		
Tree Stratum (Plot size:)		1.00			Number of Dominant			
1						That Are OBL, FACW	, or FAC:	1	(A)
2						Total Number of Dom	inant		
3	National Control of the Control of t					Species Across All St		3	(B)
4						Description of Demineral	Cassins		
5						Percent of Dominant : That Are OBL, FACW		33	(A/B)
			= Tota	al Cov	er	December 1 and a second	a alca la a a tu		-
Sapling/Shrub Stratum (Plot size:						Prevalence Index wo		B. A. alkimba basa	
1						Total % Cover of			
2						OBL species		in the	
3						FACW species 20	x 3	60	
4									
5						FACU species			
Herb Stratum (Plot size:)	~	= Tota	al Cov	er	Column Totals: 50		210	(B)
Rosa multiflora		30	Yes	6	UPL	Column Totals	(^	,	(b)
2 Setaria pumila		20	Yes	3	FAC	Prevalence Inde	ex = B/A =	4.1	
3. Glycine max		50	Yes	3	UPL	Hydrophytic Vegeta	tion Indicat	tors:	
4.						1 - Rapid Test for	775 17 (5	100	
5.	(F)					2 - Dominance To			
6.					Section Committee of	3 - Prevalence In			
7						4 - Morphologica	Adaptation	ns¹ (Provide su	pporting
8.								separate sheet	
9						Problematic Hydr	opnytic veg	getation (Expi	ain)
10						¹ Indicators of hydric s	oil and wetl	land hydrology	must
Woody Vine Stratum (Plot size:)	100	= Tota	al Cov	er er	be present, unless dis			must
1						Hydrophytic			
2.						Vegetation	u		
						Present?	es	No X	
Remarks: (Include photo numbers her	re or on a separa		A THE			1			
I .									

SOIL Sampling Point: WP-UP

		e to the dep				or confirm	the absence of indi	cators.)
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature		Loc²	Tantura	Describe
0-12	7.5YR 6/2	60	7.5YR 5/8	<u>%</u> 40	Type ¹		Texture	Remarks
0-12	7.511 0/2		7.518 5/6	_ 40	_ <u>C</u>	<u>M</u>	L/C	

							10	
Alexandria Security and Medical Security Securit								
¹Type: C=C	oncentration, D=De	nlotion PM-	Pedugod Matrix A		4 6 0 0 4 0		21	
Hydric Soil		pielion, Kivi-	Reduced Matrix, N	13-Waske	u Saliu Gi	allis.		ore Lining, M=Matrix. blematic Hydric Soils ³ :
Histosol			Sandy	Gleyed M	atrix (SA)		Coast Prairie F	0.4 (0.4 (-0.4)
	pipedon (A2)			Redox (S			Dark Surface (Account No. 1990
	istic (A3)			d Matrix (The state of the s	se Masses (F12)
	en Sulfide (A4)			Mucky Mi				Dark Surface (TF12)
	d Layers (A5)			Gleyed M			Other (Explain	
2 cm Mu	uck (A10)		X Deplet					,
Deplete	d Below Dark Surfa	ce (A11)		Dark Surfa				
Thick Da	ark Surface (A12)		Deplet	ed Dark Si	urface (F7)	3Indicators of hydr	ophytic vegetation and
Sandy N	Mucky Mineral (S1)		Redox	Depressio	ns (F8)		wetland hydrol	ogy must be present,
	ucky Peat or Peat (unless disturbe	ed or problematic.
Restrictive	Layer (if observed):						
Туре:								Y
Depth (in	ches):						Hydric Soil Presen	t? Yes X No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one is require	ed: check all that a	pply)			Secondary Indica	ators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Leav	es (B9)		Surface Soil	Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B13)		Drainage Pa	atterns (B10)
Saturation	on (A3)		True Aqu	atic Plants	(B14)		Dry-Season	Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Bur	rows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosphe	res on Liv	ing Roots (C3) Saturation V	isible on Aerial Imagery (C9)
Drift Der	posits (B3)		Presence	of Reduce	ed Iron (C4	1)		Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ire	on Reducti	on in Tille	d Soils (C6) Geomorphic	Position (D2)
Iron Dep	oosits (B5)		Thin Mucl	Surface ((C7)		FAC-Neutra	Test (D5)
Inundati	on Visible on Aerial	Imagery (B7) Gauge or	Well Data	(D9)			
Sparsely	Vegetated Concav	ve Surface (B	8) Other (Ex	plain in Re	emarks)			
Field Obser			V 2				The state of the s	
Surface Water	er Present?	Yes N	lo X Depth (in	ches):		_		
Water Table	Present?	Yes N	lo X Depth (in	ches):		_		
Saturation Projection (includes cap	resent? pillary fringe)	Yes N	lo X Depth (in	ches):		_ Wetla	and Hydrology Preser	nt? Yes No _X
Describe Re	corded Data (strear	n gauge, mor	nitoring well, aerial	photos, pr	evious ins	pections), i	f available:	
Remarks:								
HAS CONTRACTOR TO								

Project/Site: Highland Solar			City/C	ounty:	Highland	d	_ Sampling [Date: 12/20/	2017
Applicant/Owner: Hecate Energy, LI						State: Ohio			
Investigator(s): M. Perkins, C. Bren-			Section	Section, Township, Range:					
Landform (hillslope, terrace, etc.):									
Slope (%): Lat: 39.0883						**************************************			
Soil Map Unit Name: Clermont silt lo				1		NWI classifi			
Are climatic / hydrologic conditions on t	he site typic	al for this time of	of year? Y	es >	(_ No_	(If no, explain in I	Remarks.)		
Are Vegetation, Soil, or						Normal Circumstances"		es X N	0
Are Vegetation, Soil, or	Hydrology _	naturally	y problema	atic?	(If ne	eded, explain any answ	ers in Remar	ks.)	
SUMMARY OF FINDINGS - A	ttach site	map show	ing san	pling	g point le	ocations, transect	s, importa	int feature	s, etc.
Hydrophytic Vegetation Present?		X_ No							
Hydric Soil Present?		X_ No		Is the Sampled Area					
Wetland Hydrology Present?	Yes	X_ No		withi	n a Wetlar	nd? Yes _ ^	No_		
Remarks:									
WQ Wet3: 39.087118, -83.82929	96								
VEGETATION – Use scientific	names of	plants.							
		Abso			Indicator	Dominance Test wor	ksheet:	<u> </u>	
Tree Stratum (Plot size:)	<u>% Co</u>	over Spe Ye		Status FAC	Number of Dominant		E	
1. Acer rubrum		$\frac{40}{20}$	— <u>Te</u>		FACW	That Are OBL, FACW	, or FAC:	5	(A)
2. Liquidambar styraciflua		$\frac{20}{20}$	— <u>Te</u>		FACW	Total Number of Domi		_	
3. Quercus palustris		<u></u>			- AOW	Species Across All Str	rata:	5	(B)
4						Percent of Dominant S		100	
5		80		lal Cov		That Are OBL, FACW	, or FAC: _	100	(A/B)
Sapling/Shrub Stratum (Plot size:			= 10	iai Cov	ei	Prevalence Index wo	rksheet:		
Fraxinus pennsylvanica		20	Ye	S	FACW	Total % Cover of:		Multiply by:	
2.						OBL species	x 1 =	=	
3.						FACW species 90	x 2 =	= 180	_
4.						FAC species 40	x 3 =	= 120	_
5						FACU species	x 4 =	=	_
		20	= To	tal Cov	er		x 5 =		
Herb Stratum (Plot size:)	20	V-		EACIA!	Column Totals: 130	(A)	300	(B)
Leersia virginica		30	Ye	S	FACW	Prevalence Inde	D/A -	23	
2									_
3						Hydrophytic Vegetat X 1 - Rapid Test for			
4		The state of the s			-	2 - Dominance Te		vegetation	
5						X 3 - Prevalence Inc	dev is <3.01		
6						4 - Morphological		(Provide sur	norting
7						data in Remar	ks or on a se	parate sheet)	porting
8.						Problematic Hydr	ophytic Vege	tation¹ (Expla	in)
9						The state of the s			
10.		30	- To	tal Cov		¹ Indicators of hydric se			must
Woody Vine Stratum (Plot size:			10	lai COV	ei	be present, unless dis	turbed or pro	blematic.	
1						Hydrophytic			
2						Vegetation	es_X_	NI.	
			= To	tal Cov	er	Present? Y	es _/\	NO	
Remarks: (Include photo numbers he	ere or on a s	eparate sheet.)							

Sampling Point: WQ-DP1

SOIL

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirm	n the absence of in	dicators.)		
Depth	Matrix			ox Feature		1 2	Ta. 4	Domesto		
(inches)	Color (moist)		Color (moist)	%_	Type ¹	Loc ²		Remarks		
0-12	7.5YR 6/1	70	7.5YR 5/8	30	<u> </u>		C/L			
-		_								
						-				
					-				1	
				_						
1Tuno: C=C	oncentration, D=De	pletion PM=	Reduced Matrix N	IS=Maske	d Sand G	rains	² Location: PL	=Pore Lining, M=Matr	ix.	
Hydric Soil	And the second of the second o	pletion, Rivi-	Reduced Matrix, N	io-waske	o Cario C	idiris.		Problematic Hydric S		
Histosol			Sandy	Gleved N	latrix (S4)		Coast Prair	ie Redox (A16)		
	pipedon (A2)		-	Redox (S			Dark Surface			
	istic (A3)			ed Matrix			Iron-Manga	nese Masses (F12)		
	en Sulfide (A4)		17		ineral (F1))	Very Shallo	w Dark Surface (TF12	2)	
	d Layers (A5)				Matrix (F2)		Other (Expl	ain in Remarks)		
2 cm M	uck (A10)		X Deplet							
	d Below Dark Surfa	ce (A11)		Dark Sur		20	3.			
The state of the s	ark Surface (A12)				Surface (F7	7)		ydrophytic vegetation drology must be prese		
100000000000000000000000000000000000000	Mucky Mineral (S1)		Redox	Depressi	ons (F8)		,	urbed or problematic.	nt,	
	ucky Peat or Peat (30535					uniess disti	arbed of problematic.		
	Layer (if observed									
Type:	7						Hydric Soil Pres	sent? Yes X	No	
Depth (in	nches):									
Remarks:										
HYDROLO	OGY									
Wetland Hy	drology Indicator	s:						Der out 100 to ou		
Primary Ind	icators (minimum of	one is requir	ed: check all that	apply)			Secondary Ir	ndicators (minimum of	two required)	
Surface	Water (A1)		X Water-S	tained Lea	ives (B9)			Soil Cracks (B6)		
High W	ater Table (A2)		Aquatic	Fauna (B1	3)			e Patterns (B10)		
X Saturat	tion (A3)		True Aq	uatic Plant	ts (B14)		Dry-Season Water Table (C2)			
E-100 PAGE 100 PAGE 1	Marks (B1)		Hydroge	n Sulfide	Odor (C1)			Burrows (C8)		
Sedime	ent Deposits (B2)		Oxidized	Rhizosph	neres on L	iving Roots		on Visible on Aerial Im		
Drift De	eposits (B3)		Presenc	e of Redu	ced Iron (0	24)	Stunted	or Stressed Plants (D	1)	
Algal M	lat or Crust (B4)		Recent I	ron Reduc	ction in Till	ed Soils (C		phic Position (D2)		
	eposits (B5)		Thin Mu	ck Surface	e (C7)		FAC-Ne	utral Test (D5)		
Inunda	tion Visible on Aeria	Imagery (B	7) Gauge c	r Well Da	ta (D9)					
Sparse	ly Vegetated Conca	ive Surface (B8) Other (E	xplain in F	Remarks)					
Field Obse	rvations:		12. 2		1200					
Surface Wa	ater Present?		No X Depth (
Water Table	e Present?	Yes	No X Depth (inches): _						
Saturation	Present?	Yes X	No Depth (inches):)	We	tland Hydrology Pr	esent? Yes X	No	
(includes ca	apillary fringe)	N								
Describe R	ecorded Data (stream	ım gauge, mo	onitoring well, aeria	al photos,	previous II	nspections	i), if available:			
Demarker									1, 10	
Remarks:										

Project/Site: Highland Solar			City/Coun	ty: Highland	d	_ Sampling Date	12/20/2017
Applicant/Owner: Hecate Energy, LL					State: Ohio		
			Section, Township, Range:				
Landform (hillslope, terrace, etc.):							
Slope (%): Lat: _39.0880					Datum: NAD8		
Soil Map Unit Name: Clermont silt loa					NWI classifi		
Are climatic / hydrologic conditions on th			ar? Yes	X No	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or h					Normal Circumstances"		X No
Are Vegetation, Soil, or h					eded, explain any answ		
SUMMARY OF FINDINGS – At							
Hydrophytic Vegetation Present?	Yes X						
Hydric Soil Present?	Yes X		Is the Sampled Area			,	
Wetland Hydrology Present?	Yes X	No	wi	thin a Wetlan	nd? YesX	No	
Remarks:							
Wetland Q Data Point 2 is located	l in an old agri	cultural field	l.				
VEGETATION – Use scientific n	ames of plan	ts.					
		Absolute		nt Indicator	Dominance Test wor	ksheet:	M-4511-00-10-11-11-11-11-11-11-11-11-11-11-1
Tree Stratum (Plot size:)	% Cover	Species	? Status	Number of Dominant		946
1					That Are OBL, FACW	, or FAC: 2	(A)
2					Total Number of Dom	9	201
3					Species Across All St	ata: 3	(B)
4					Percent of Dominant		
5			= Total C		That Are OBL, FACW	, or FAC: 00	(A/B)
Sapling/Shrub Stratum (Plot size:)		- Total C	over	Prevalence Index wo	rksheet:	
1.					Total % Cover of:		tiply by:
2.					OBL species 80	x 1 = _8	
3.					FACW species 20	x 2 =	10
4					FAC species	x 3 =	
5					FACU species	× 4 =	200
			= Total C	Cover	UPL species 40	^ _	
Herb Stratum (Plot size:)	80	Yes	OBL	Column Totals: 140	(A)	320 (B)
Ludwigia alternifolia Chains may		40	Yes	UPL	Prevalence Inde	$e_X = B/A = 2.3$	ly.
2. Glycine max 3. Cyperus esculentus		20	Yes	FACW	Hydrophytic Vegetat		
	// 1		- 100		1 - Rapid Test for		
4					X 2 - Dominance Te	est is >50%	5
5					X 3 - Prevalence In	dex is ≤3.0 ¹	
6					4 - Morphological		rovide supporting
7 8.					data in Remar	ks or on a separa	ate sheet)
9.					Problematic Hydr	ophytic Vegetation	on¹ (Explain)
10.					1		
		120	= Total C	Cover	¹ Indicators of hydric s be present, unless dis		
Woody Vine Stratum (Plot size:)				be present, unless an	narous or prosince	
1.					Hydrophytic		
2					Vegetation Present?	es X No	
			= Total C	Cover			
Remarks: (Include photo numbers her	e or on a separa	ite sheet.)					

-:-4	WQ-DP2
oint.	

SOIL

inches) Color (moist) % Color (moist) % Type Loc' Texture Remarks 7,5YR 6/1 70 7.5YR 5/8 30 C M C/L 7,5YR 6/1 70 7.5YR 6/1 70 M C/L 7,5YR 6/1 70 7.5YR 5/8 30 C M C/L 7,5YR 6/1 70 7.5YR 6/		90701 1090	to the de	pth needed to docu			or commi	ii tiic absciice	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tecation: PL=Pore Lining, M=Matrix, Works Soil Indicators: Indicators for Problematic Hydric Soils*: Coss Prairis Redox Des Prairis Redox Redo	Depth _	Color (moist)	0/2				l oc²	Tevture	Remarks
Histosol (A1)				VI Transaction and the second					Temans
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Reco (A16) Coast Prairie Reco (A17) Coast Reco									
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Mucky Mineral (F2) Other (Explain in Remarks) Ze m Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F3) Depleted Below Dark Surface (A12) Depleted Dark Surface (F3) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Bernarks: DROLOGY			pletion, RN	M=Reduced Matrix, M	S=Maske	ed Sand G	rains.		
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Bellow Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pepted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pepted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pepted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pepted Matrix (F3) Sandy Mucky Mineral (S1) Redox Depressions (F8) Pepted Matrix (F3) Pepter Mucky Peat or Peat (S3) Setrictive Layer (if observed): Type: Depth (inches): Pepth (inches): Pemarks: //DROLOGY //DROL	5000 N GS			0 1	o				THE VISIO SHEET AT ADMINISTRATED
Black Histic (A3)		(17)		U	53			Married Commencer Commence	14. (6)
Hydrogen Sulfide (A4)								0.0000000000000000000000000000000000000	TO A PART DECEMBER OF THE STORM OF SEC.
Stratified Layers (A5) 2 cm Muck (A10) Depleted Matrix (F2) Depleted Bedrix (F3) Depleted Below Dark Surface (A11) Pedeox Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sendy Mucky Peat or Peat (S3) Pept (F0) Pep						No. of the second second		1 Total Control of the Control of th	
						12.7			
		7.30						50001	, and the state of
Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. Sern Mucky Peat or Peat (S3)	THE WAR STREET		ce (A11)						
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic lestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			())	3Indicators	of hydrophytic vegetation and
estrictive Layer (if observed): Type:		생일 (여기 기계 기계 여기 여기 기계		Redox	Depressi	ons (F8)		wetland	hydrology must be present,
Type:			S3)					unless	disturbed or problematic.
Popth (inches):	estrictive La	ver (if observed	١-						
### Proceedings of the Computer States of the			,.					1	
Vertland Hydrology Indicators: Vertland Hydrology Indicators: Vertland Hydrology Indicators: Vertland Hydrology Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dril Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Vertimary Indicators (minimum of two required Secondary Indicators (Me) Surface Water Table Present? Algustic Fauna (B13) Secondary Indicators (B9) Surface Soil Cracks (B6) Driange Pattern	Туре:			-					Y
Vetland Hydrology Indicators: Virimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) 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) Vater Table Present? Yes X No Depth (inches): Secondary Indicators (minimum of two requires Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Vater Table Present? Yes X No Depth (inches): 3-5 Vater Table Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No	Depth (inch							Hydric Soil	Present? Yes X No
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Surface Water (A1)	Depth (inch Remarks:	es):Y						Hydric Soil	Present? Yes X No
High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) 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) Vater Table Present? Ves X No Depth (inches): Saturation Present? Yes X No Depth (inches): Ordidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Porsent? Yes X No Depth (inches): Ordidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	Depth (inch Remarks: YDROLOG Vetland Hydr	es):Y	:						
Saturation (A3)	Depth (inchesemarks: YDROLOG Vetland Hydr	es):Y ology Indicators tors (minimum of	:	uired; check all that a	B 958			Seconda	ry Indicators (minimum of two require
Water Marks (B1)	Depth (inches demarks: YDROLOG Vetland Hydres designed by the second second designed by the second designed de	Y ology Indicators tors (minimum of	:	uired; check all that a	ined Lea			Seconda Surfa	ry Indicators (minimum of two require ace Soil Cracks (B6)
	Depth (inch demarks: YDROLOG Vetland Hydr Vrimary Indica X Surface W High Wate	Y ology Indicators tors (minimum of later (A1) or Table (A2)	:	uired: check all that a Water-Sta Aquatic F	ined Lea auna (B1	3)		Seconda Surfi	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
Drift Deposits (B3)	Depth (inch femarks: **DROLOG Vetland Hydr rimary Indica **X Surface W High Wate **X Saturation	Y ology Indicators tors (minimum of later (A1) or Table (A2) (A3)	:	uired: check all that a Water-Sta Aquatic F True Aqua	ined Lea auna (B1 atic Plant	3) s (B14)		Seconda Surfa Drain Dry-	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
	Depth (inch femarks: POROLOG Vetland Hydr frimary Indica X Surface W High Wate X Saturation Water Mai	Y ology Indicators tors (minimum of ater (A1) or Table (A2) (A3) rks (B1)	:	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen	nined Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)		Seconda Surfa Drain Dry- X Cray	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8)
Iron Deposits (B5)	Depth (inch femarks: POROLOG Vetland Hydr rimary Indica X Surface W High Wate X Saturation Water Mai Sediment	Y ology Indicators tors (minimum of ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2)	:	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized	nined Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on Liv		Seconda Surfa Drain Dry- X Cray (C3) Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Depth (inch femarks: POROLOG Vetland Hydr Frimary Indica X Surface W High Wate X Saturation Water Mai Sediment Drift Depo	Y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)	:	uired: check all that a Water-Sta Aquatic F True Aquatic F Hydrogen Oxidized Presence	nined Lea auna (B1 atic Plant Sulfide C Rhizosph of Reduc	3) s (B14) Odor (C1) eres on Liv ed Iron (C	4)	Seconda Surfa Drain Dry- X Cray (C3) Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9)
	Depth (inch emarks: DROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat	Y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)	:	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iro	ained Lea auna (B1 atic Plant: Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on Lived Iron (C	4)	Seconda Surfi: Draii Dry X_ Cray (C3) Satu Stun Stun 6) Geo	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) iration Visible on Aerial Imagery (C9) ited or Stressed Plants (D1) morphic Position (D2)
ield Observations: urface Water Present?	Depth (inch emarks: //DROLOG /etland Hydr rimary Indica // Surface W High Wate // Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo:	Y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) oks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	: one is requ	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iro Thin Mucl	ained Lea auna (B1 atic Plant: Sulfide (Rhizosph of Reduc on Reduc s Surface	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille	4)	Seconda Surfi: Draii Dry X_ Cray (C3) Satu Stun Stun 6) Geo	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
urface Water Present? Ves X No Depth (inches): 3-5 Vater Table Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Ves X	Depth (inch emarks: //DROLOG /etland Hydr rimary Indica // Surface W High Wate // Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial	: one is requ	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iro Thin Mucl	ained Lea auna (B1 atic Plant: Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dati	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9)	4)	Seconda Surfi: Draii Dry X_ Cray (C3) Satu Stun Stun 6) Geo	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Includes capillary fringe)	Primary Indicated Saturation Water Mail Sediment Drift Depo Algal Matelling Inundation Sparsely Visited Observa	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) oks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial legetated Concautions:	: one is required Imagery (I	uired: check all that a Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Iro Thin Mucl	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc & Surface Well Dat- plain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4)	Seconda Surfi: Draii Dry X_ Cray (C3) Satu Stun Stun 6) Geo	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
includes capillary fringe)	Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mater Iron Depoi Inundation Sparsely W Surface Water Surface W	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) lks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial legetated Concautions: Present?	: one is require Surface Yes X	uired: check all that a Water-Sta Aquatic F True Aquatic F Oxidized Presence Recent Ird Thin Mucl 37) Gauge or (B8) Other (Ex	ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat- plain in R	3) s (B14) Odor (C1) eres on Lived Iron (C tion in Tille (C7) a (D9) emarks)	4)	Seconda Surfi: Draii Dry X_ Cray (C3) Satu Stun Stun 6) Geo	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
resonate recorded Data (stream gauge, monitoring went actial priores, previous mapections), il available.	Primary Indica YDROLOG Vetland Hydre Young Indica Iron Depois Inundation Sparsely Verifield Observa Surface Water Vater Table P	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial legetated Concavitions: Present?	Imagery (I	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Mucl 37) Gauge or (B8) Other (Ex	ained Lea auna (B1 atic Plant Sulfide C Rhizosph of Reduc on Reduc c Surface Well Dat plain in R	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Seconda Surfa Drain Stora Cray (C3) Satu Stun 6) Geo FAC	ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) tted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
	Depth (inch Remarks: YDROLOG Vetland Hydr Primary Indica X Surface W High Water X Saturation Water Mai Sediment Drift Depo Algal Mate Iron Depo: Inundation Sparsely V Field Observa Surface Water Vater Table P Saturation Pre includes capill	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial legetated Concavitions: Present? resent? sent? lary fringe)	Imagery (I	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru Thin Mucl 37) Gauge or (B8) Other (Ex No Depth (in	ained Lea auna (B1 atic Plant Sulfide CRhizosph of Reduce Surface Well Datiplain in Reduce Surface): 3 aches): 3 aches): 0	3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	4) ed Soils (Co	Seconda Surfa Drain Strong Cray Cray (C3) Satu Stun Geo FAC	ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) tration Visible on Aerial Imagery (C9) tted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)

Project/Site: Highland Solar		(City/Co	unty: High	land	Samp	oling Date: 12/2	20/2017
Applicant/Owner: Hecate Energy,								
Investigator(s): M. Perkins, C. Bre	ndel	;	Section	, Township	Range:			
Landform (hillslope, terrace, etc.):				Local re	elief (concave, convex,	none):		
Slope (%): Lat: 39.08			Long: _	-83.82803	4	Datun	n: NAD83	
Soil Map Unit Name: Clermont silt	loam, 0 to 1 perc	cent slopes			NWI c	lassification:	NA	
Are climatic / hydrologic conditions on	the site typical for	this time of year	ar? Ye	s_X_ 1	lo (If no, expla	iin in Remark	s.)	
Are Vegetation, Soil,	or Hydrology	_ significantly	disturbe	ed?	Are "Normal Circumstar	nces" present	? Yes X	No
Are Vegetation, Soil,	or Hydrology	_ naturally prol	blemati	c? (If needed, explain any	answers in R	emarks.)	
SUMMARY OF FINDINGS -	Attach site ma	p showing	samp	oling poi	nt locations, trans	sects, imp	ortant featu	ires, etc.
Hydrophytic Vegetation Present?	Yes	No X						
Hydric Soil Present?	Yes	No X	1	ls the Sam			\ <u>\</u>	
Wetland Hydrology Present?	Yes	No X	,	within a W	etland? Yes	s 1	No X	
Remarks:								
	7							
VEGETATION - Use scientific	names of plan	nts.						
Tree Stratum (Plot size:	`	Absolute % Cover		nant Indica	10			
		-			- Number of Domi			(A)
1								_ (//)
3					Total Number of Species Across		0	(B)
4.					The second control of			_ (0)
5					 Percent of Domin That Are OBL, F.); O	(A/B)
			= Total	Cover	Prevalence Inde	av workshoo		
Sapling/Shrub Stratum (Plot size:					Total % Cov			
1					OBL species			
3.					- FAC:41			
4.					FACi			
5.					FACU species .			
			= Total	Cover	UPL species			
Herb Stratum (Plot size:		100	Yes	UPL	Column Totals:	100	(A) 500	(B)
			163		— Prevalence	Index = B/A	= 5	
2					Hydrophytic Ve			
4					1 - Rapid Te	250		n
5.					2 Dominan			
6					2 Decualon	ce Index is ≤3	3.0 ¹	
7.					4 - Morpholo	ogical Adaptat	tions1 (Provide s	supporting
8					Problematic		a separate she	
9					_ _ Problematic	Trydrophytic	vegetation (LX	pianij
10					- Indicators of hyd	dric soil and v	vetland hydrolog	av must
Woody Vine Stratum (Plot size:	Y	100	= Total	Cover	be present, unles			22
1					Hydrophytic			
2.					Vegetation	9.0	🗸	
					Present?	Yes	No _X	-
Remarks: (Include photo numbers I	nere or on a separa	ate sheet.)						
1								

SOIL Sampling Point: WQ-UP

Depth			eeded to docu		iluicator	or comm	n the absent	ce of indicators.)
Stranger and the strang	Matrix			x Feature		12	T	Remarks
(inches)	Color (moist)	%(Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 6/4							
			12412					
				-				
	ncentration, D=De	pletion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicato	rs for Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy	Gleyed Ma	atrix (S4)		-	st Prairie Redox (A16)
Histic Ep	ipedon (A2)			Redox (S5			-	k Surface (S7)
Black His	5			d Matrix (S				-Manganese Masses (F12)
	n Sulfide (A4)			Mucky Mi			the second of the second of the	y Shallow Dark Surface (TF12)
	Layers (A5)			Gleyed M			Othe	er (Explain in Remarks)
2 cm Mu				ed Matrix (
N. 20 Sept. 40 Sept. 16 Sept. 10 Sept.	Below Dark Surfa	ice (A11)	A STATE OF THE PARTY OF THE PAR	Dark Surfa			31	of budges budge upgestation and
	rk Surface (A12)				urface (F7))		ors of hydrophytic vegetation and
	ucky Mineral (S1)		Redox	Depressio	ns (F8)			and hydrology must be present, ess disturbed or problematic.
	cky Peat or Peat (unie	ess disturbed or problematic.
Restrictive L	ayer (if observed	1):						
			. .				Hydric S	oil Present? Yes No _X
Depth (inc	ches):		-				injunio o	on 11000m. 100 no
Remarks:								
HYDROLO	GY							
Wetland Hyd								
	prology indicators	s:			W-55-58-0			
Primary Indic			check all that a	pply)	III-V-S-RU-		Secor	ndary Indicators (minimum of two required)
hair bi w	ators (minimum of				ves (B9)			ndary Indicators (minimum of two required)
Surface	cators (minimum of Water (A1)		Water-Sta	ained Leav	0.000-0.000		s	Surface Soil Cracks (B6)
Surface '	cators (minimum of Water (A1) ter Table (A2)		Water-Sta Aquatic F	ained Leav auna (B13	3)		s	
Surface High Wa Saturation	waters (minimum of Water (A1) hter Table (A2) on (A3)		Water-Sta Aquatic F True Aqu	ained Leav auna (B13 atic Plants	3) (B14)		s b	ourface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2)
Surface High Wa Saturatio Water M	eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)		Water-State Aquatic F True Aqu Hydrogen	ained Leav auna (B13 atic Plants Sulfide O	3) (B14) dor (C1)	ina Roots	s d d	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8)
Surface High Wa Saturatio Water M Sedimen	eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) nt Deposits (B2)		Water-Sta Aquatic F True Aqu Hydrogen Oxidized	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe	B) (B14) dor (C1) eres on Liv		S D C C	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Staturation Visible on Aerial Imagery (C9)
Surface High Wa Saturatic Water M Sedimen Drift Dep	eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) posits (B3)		Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduc	B) (B14) dor (C1) eres on Lived Iron (C	4)	S D C C s (C3) S	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Sturration Visible on Aerial Imagery (C9) Prayfish of Stressed Plants (D1)
Surface High Wa Saturatic Water M Sedimen Drift Dep	eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) at or Crust (B4)		Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduct on Reduct	B) (B14) (dor (C1) eres on Lived Iron (Cellion in Tille	4)	S D D C S (C3) S S (6) G	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Burrows (C9)
Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	waters (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) on Deposits (B2) oosits (B3) at or Crust (B4) posits (B5)	one is required:	Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In	ained Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduct on Reduct k Surface	(B14) Idor (C1) Idor (C7)	4)	S D D C S (C3) S S (6) G	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Sturration Visible on Aerial Imagery (C9) Prayfish of Stressed Plants (D1)
Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria	f one is required:	Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge or	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduct on Reduct k Surface	B) (B14) dor (C1) eres on Lived Iron (Cion in Tille (C7) (C9)	4)	S D D C S (C3) S S (6) G	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Burrows (C9)
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Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely	waters (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria v Vegetated Conca	one is required: Il Imagery (B7) Ive Surface (B8)	Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc Gauge or Other (Ex	ained Leav auna (B13 atic Plants a Sulfide O Rhizosphe of Reduc- on Reduct k Surface Well Data splain in Re	(B14) Idor (C1) Idor (C1) Idor (C1) Idor (C1) Idor (C7) Idor (C7) Idor (C7) Idor (C9)	4) d Soils (C	S D D C S (C3) S S (6) G	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Burrows (C9)
Surface Management Status Saturation Water Management Sediment Drift Department Sparsely	waters (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria v Vegetated Conca	I Imagery (B7) ave Surface (B8) Yes No	Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc Gauge or Other (Ex	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduct on Reduct k Surface Well Data splain in Re	(B14) Indoor (C1) Indoor (C1) Indoor (C1) Indoor (C1) Indoor (C2) Indoor (C7) Indoor (D9)	4) d Soils (C	S D D C S (C3) S S (6) G	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prayfish Burrows (C8) Prayfish Burrows (C9)
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Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obsen Surface Water Water Table Saturation Pr	waters (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aeria or Vegetated Conca vations: er Present? Present?	Il Imagery (B7) Ive Surface (B8) Yes No Yes No Yes No	Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc Gauge or Other (Ex X Depth (in X Depth (in	ained Leav auna (B13 atic Plants i Sulfide O Rhizosphe of Reduct on Reduct k Surface Well Data eplain in Re inches):	(B14) Idor (C1) Idor (C1) Idor (C1) Idor (C1) Idor (C7) Idor (D9)	4) d Soils (C	S D C S S S S S F	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prainage Plants (D1) Prainage Plants (D1) Prainage Plants (D1) Prainage Plants (D2) Prainage Plants (D2) Prainage Plants (D3) Prai
Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obsen Surface Water Water Table Saturation Pr	waters (minimum of Water (A1) ther Table (A2) on (A3) arks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aeria vegetated Concavations: er Present? Present?	Il Imagery (B7) Ive Surface (B8) Yes No Yes No Yes No	Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc Gauge or Other (Ex X Depth (in X Depth (in	ained Leav auna (B13 atic Plants i Sulfide O Rhizosphe of Reduct on Reduct k Surface Well Data eplain in Re inches):	(B14) Idor (C1) Idor (C1) Idor (C1) Idor (C1) Idor (C7) Idor (D9)	4) d Soils (C	S D C S S S S S F	ourface Soil Cracks (B6) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Prainage Plants (D1) Prainage Plants (D1) Prainage Plants (D1) Prainage Plants (D2) Prainage Plants (D2) Prainage Plants (D3) Prai
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11/12/2019 3:05:01 PM

in

Case No(s). 19-1822-EL-BLN

Summary: Letter of Notification Part 6 electronically filed by Carrie Inman on behalf of The Dayton Power and Light Company