Project/Site: Nottingham S	olar Site		Citv/	County: Harrison Cou	nty	Sampling Date: 1/	12/2021
Applicant/Owner: Nottingham				County: Harrison Cou	State: OH	Sampling Point:	Upland NS-6
Investigator(s): P. Renner; N							
Landform (hillslope, terrace, e							(%): 8
Subregion (LRR or MLRA): <u>L</u>							
Soil Map Unit Name: Morrist							
Are climatic / hydrologic condi				_			
Are Vegetation, Soil _						present? Yes	No
Are Vegetation, Soil _							NO
Are vegetation, Soil _	, ог пус	irology	naturally problem	iatio: (ii fieeded	, explain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	IGS – Atta	ch site m	ap showing sai	mpling point locat	ions, transects	s, important fea	tures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No_	Is the Sampled Area	1	_	
Hydric Soil Present?		Yes	_ No	within a Wetland?	Yes	No	
Wetland Hydrology Present?	)	Yes	_ No				
Remarks:							
Non-wetland data point c	orrespondir	g to Wetla	and NS-6				
HYDROLOGY							
Wetland Hydrology Indicat	ors:				Secondary Indica	ators (minimum of tw	o required)
Primary Indicators (minimum	of one is req	uired; checl	k all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)			True Aquatic Plants	(B14)		getated Concave Su	rface (B8)
High Water Table (A2)			Hydrogen Sulfide O		Drainage Pa		` ′
Saturation (A3)				res on Living Roots (C3			
Water Marks (B1)			Presence of Reduce			Water Table (C2)	
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bur		
Drift Deposits (B3)			Thin Muck Surface (			isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)			Other (Explain in Re			Stressed Plants (D1)	, ,
Iron Deposits (B5)				•	Geomorphic		
Inundation Visible on Ae	rial Imagery (	(B7)			Shallow Aqu		
Water-Stained Leaves (		,				aphic Relief (D4)	
Aquatic Fauna (B13)	,				FAC-Neutra		
Field Observations:							
Surface Water Present?	Yes	No.	Depth (inches):				
Water Table Present?	Yes						
Saturation Present?	Yes		Depth (inches):		l Hydrology Prese	nt? Ves	No
(includes capillary fringe)	163	110	Deptil (illones).		i riyarology i reser	163	<u> </u>
Describe Recorded Data (str	eam gauge, r	monitoring v	vell, aerial photos, pr	evious inspections), if a	vailable:		
Remarks:							

/EGETATION (Five Stra	ata) – Use scientific	names of plants.		Sampling Point: Upland NS-6
T. 0 (D	r=30' \		nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:1	)	% Cover Species		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata:1 (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0% (A/B)
6				Prevalence Index worksheet:
		= Total Co	over	Total % Cover of: Multiply by:
		20% of total cove	er:	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	r=15')			FACW species0 x 2 =0
1				FAC species 0 x 3 = 0
2				FACU species
3				UPL species 100 x 5 = 500
4				Column Totals: 100 (A) 500 (B)
5				
6				Prevalence Index = B/A = 5.00
		= Total Co	over	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of total cove	er:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	r=15')			2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
		= Total Co	over	Definitions of Five Vegetation Strata:
		20% of total cove	er:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	<u>r=5'</u> )	100 Yes	UPL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine - All woody vines, regardless of height.
11		= Total Co	over	
		50 20% of total cove	er: <u>20</u>	
Woody Vine Stratum (Plot size				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present?  Yes No
		20% of total cove	er:	160 100
Remarks: (Include photo nun	nbers here or on a separa	te sheet.)		

0-16	Color (moist) 10YR 4/3	% Color 100	(moist) %		<u>Textu</u> silty clay	
0-10	101K 4/3				siity ciay	/ ioam
					· ·	
					· <del></del>	<del></del>
					<u> </u>	
						<del></del>
		DM Dadasad	Matrice MO March		21 41	DI Dans Links M Matrix
	ncentration, D=Depletion	on, RM=Reduced	Matrix, MS=Mask	ed Sand Grains.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils
ydric Soil Ir		_				
_ Histosol (			ark Surface (S7)	(00) (11) 54 445		2 cm Muck (A10) (MLRA 147)
	pedon (A2)		-	face (S8) (MLRA 147	', 148)	Coast Prairie Redox (A16)
_ Black His				69) <b>(MLRA 147, 148)</b>		(MLRA 147, 148)
	Sulfide (A4)		amy Gleyed Matrix		•	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		epleted Matrix (F3) edox Dark Surface			(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
	Below Dark Surface (A		edox Dark Surface epleted Dark Surfa			Other (Explain in Remarks)
	rk Surface (A12)	· —	edox Depressions (		,	Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(LRR</b>			sses (F12) <b>(LRR N,</b>		
	147, 148)		MLRA 136)	3003 (1 12) <b>(ERRY)</b>		
	eyed Matrix (S4)	Ur	•	) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation an
Sandy Re				Soils (F19) (MLRA 14	48)	wetland hydrology must be present,
	Matrix (S6)			(F21) <b>(MLRA 127, 14</b>		unless disturbed or problematic.
	ayer (if observed):				Í	
Туре:						
	hes):				Hydrid	c Soil Present? Yes No
					Tiyun	C 3011 FTeSent: Tes NO
Remarks:						

Project/Site: Nottingham S	olar Site		City/0	County: Harrison Co	ounty	Sampling Date: 1/1	.2/2021
Applicant/Owner: Nottingha		2	City/0		State: OH	Sampling Point:	Upland NS-
Investigator(s): P. Renner; N							
Landform (hillslope, terrace, e							%)· 2
Subregion (LRR or MLRA): L							
Soil Map Unit Name: Morrist							VADO3
Are climatic / hydrologic condi				_			
				-			NI.
Are Vegetation, Soil _						present? Yes	_ INO
Are Vegetation, Soil _	, or Hy	/drology	naturally problem	atic? (If needs	ed, explain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	IGS – Atta	ach site	map showing sar	npling point loca	ations, transects	s, important feat	ures, etc.
Hydrophytic Vegetation Pres	sent?	Yes	No	Is the Sampled Are			
Hydric Soil Present?		Yes	No	within a Wetland?	Yes	No	
Wetland Hydrology Present?	?	Yes	No No				
Remarks:		·	<del></del>				
Non-wetland data point c							
HYDROLOGY							
Wetland Hydrology Indicat						ators (minimum of two	required)
Primary Indicators (minimum	of one is re	quired; che	eck all that apply)		Surface Soil		
Surface Water (A1)			_ True Aquatic Plants			getated Concave Surf	ace (B8)
High Water Table (A2)			_ Hydrogen Sulfide Od		Drainage Pa		
Saturation (A3)			_ Oxidized Rhizospher				
Water Marks (B1)			Presence of Reduce			Water Table (C2)	
Sediment Deposits (B2)	!		Recent Iron Reduction				
Drift Deposits (B3)			_ Thin Muck Surface (			isible on Aerial Image	ry (C9)
Algal Mat or Crust (B4)		_	_ Other (Explain in Re	marks)		tressed Plants (D1)	
Iron Deposits (B5)						Position (D2)	
Inundation Visible on A		<sup>,</sup> (B7)			Shallow Aqu		
Water-Stained Leaves (	B9)				· -	aphic Relief (D4)	
Aquatic Fauna (B13)					FAC-Neutra	Test (D5)	
Field Observations:			•				
Surface Water Present?			Depth (inches):				
Water Table Present?		No <u>_</u>	<b>a</b> · · · · —				,
Saturation Present?	Yes	No <u>_</u>	Depth (inches):	Wetlar	nd Hydrology Presei	nt? Yes N	lo <u> </u>
(includes capillary fringe)  Describe Recorded Data (str	ream gauge,	, monitorin	g well, aerial photos, pre	evious inspections), if	available:		
Remarks:							

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

<u> </u>			names of p	Dominant	Indicator	Sampling Point: Upland NS-7  Dominance Test worksheet:
Tree Stratum (Plot size:	r=30'	)	% Cover			Number of Dominant Species
1						That Are OBL, FACW, or FAC:0 (A)
2						Tatal North and F Danish and
3						Total Number of Dominant Species Across All Strata:3 (B)
4						
5						Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
6						111at/11c GBE, 171GW, 01171G (71B)
					/er	Prevalence Index worksheet:
	50% of to	otal cover:				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: _			20 /0 01	total cover		OBL species x 1 = 0
						FACW species 0 x 2 = 0
1						FAC species0 x 3 =0
2						FACU species70 x 4 =280
3						UPL species30 x 5 =150
4						Column Totals:(A)(B)
5						Prevalence Index = B/A = 4.30
6						Trovalorico mack
						Hydrophytic Vegetation Indicators:
		otal cover:	20% of	total cover	:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	r=15'	)				2 - Dominance Test is >50%
1						3 - Prevalence Index is ≤3.01
2						4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4						Problematic Hydrophytic Vegetation (Explain)
5						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6						be present, unless disturbed or problematic.
			:	= Total Cov	ver	Definitions of Five Vegetation Strata:
	50% of to	otal cover:	20% of	total cover	:	
Herb Stratum (Plot size:		)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi			30	Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2 Phleum pratense			65	Yes	FACU	Sapling – Woody plants, excluding woody vines,
3 Solidago canadensis				No	FACU	approximately 20 ft (6 m) or more in height and less
4						than 3 in. (7.6 cm) DBH.
т. <u></u> 5			_			Shrub – Woody plants, excluding woody vines,
6.			_			approximately 3 to 20 ft (1 to 6 m) in height.
-			_			Herb – All herbaceous (non-woody) plants, including
7 8						herbaceous vines, regardless of size, and woody
•						plants, except woody vines, less than approximately 3
·						ft (1 m) in height.
10						Woody vine - All woody vines, regardless of height.
11			100	= Total Cov		
		_				
		otal cover:	<u>00</u> 20% of	total cover	:20	
Woody Vine Stratum (Plot si	ze:r=	30')				
1						
2						
3						
4						
5						Hydrophytic
			:	= Total Cov	ver	Vegetation
	50% of to	otal cover:	20% of	total cover		Present? Yes No

0-16	Color (moist) 10YR 4/3	% Color 100	(moist) %		<u>Textu</u> silty clay	
0-10	101K 4/3				siity ciay	/ ioam
					· ·	
					· <del></del>	<del></del>
					<u> </u>	
						<del></del>
		DM Dadasad	Matrice MO March		21 41	DI Dans Links M Matrix
	ncentration, D=Depletion	on, RM=Reduced	Matrix, MS=Mask	ed Sand Grains.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils
ydric Soil Ir		_				
_ Histosol (			ark Surface (S7)	(00) (11) 54 445		2 cm Muck (A10) (MLRA 147)
	pedon (A2)		-	face (S8) (MLRA 147	', 148)	Coast Prairie Redox (A16)
_ Black His				69) <b>(MLRA 147, 148)</b>		(MLRA 147, 148)
	Sulfide (A4)		amy Gleyed Matrix		•	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		epleted Matrix (F3) edox Dark Surface			(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
	Below Dark Surface (A		edox Dark Surface epleted Dark Surfa			Other (Explain in Remarks)
	rk Surface (A12)	· —	edox Depressions (		,	Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(LRR</b>			sses (F12) <b>(LRR N,</b>		
	147, 148)		MLRA 136)	3003 (1 12) <b>(ERRY)</b>		
	eyed Matrix (S4)	Ur	•	) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation an
Sandy Re				Soils (F19) (MLRA 14	48)	wetland hydrology must be present,
	Matrix (S6)			(F21) <b>(MLRA 127, 14</b>		unless disturbed or problematic.
	ayer (if observed):				Í	
Туре:						
	hes):				Hydrid	c Soil Present? Yes No
					Tiyun	C 3011 FTeSent: Tes NO
Remarks:						

Project/Site: Nottingham S	olar Site		City/0	County: Harrison Coun	ty	Sampling Date: 1/	13/2021
Applicant/Owner: Nottingham				County: Harrison Coun	State: OH	Sampling Point:	Upland NS-8
Investigator(s): P. Renner; N							
Landform (hillslope, terrace, e							(%): 7
Subregion (LRR or MLRA): <u>L</u>				Long: <u>-81</u>			
Soil Map Unit Name: Morrist							
Are climatic / hydrologic condi				<u> </u>			
Are Vegetation, Soil _						present? Yes	No
Are Vegetation, Soil _					explain any answe		110
Are vegetation, our	, or riyu		naturally problem	alic: (Il ficeded,	explain any answe	is in Remarks.)	
SUMMARY OF FINDIN	GS – Attac	ch site m	ap showing san	npling point location	ons, transects	s, important fea	tures, etc.
Hydrophytic Vegetation Pres	sent?	Yes	No 🗸	Is the Sampled Area			
Hydric Soil Present?	,	Yes	No V	within a Wetland?	Yes	No	
Wetland Hydrology Present?	,	Yes	No No				
Remarks:							
Non-wetland data point c	orrespondin	g to Wetla	and NS-8				
-							
HYDROLOGY							
Wetland Hydrology Indicat	ors:				Secondary Indica	ators (minimum of tw	o required)
Primary Indicators (minimum	of one is req	uired; checl	k all that apply)		Surface Soil		
Surface Water (A1)			True Aquatic Plants	(B14)		getated Concave Su	rface (B8)
High Water Table (A2)			Hydrogen Sulfide Oc		Drainage Pa		( /
Saturation (A3)				res on Living Roots (C3)			
Water Marks (B1)			Presence of Reduce			Water Table (C2)	
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bur		
Drift Deposits (B3)			Thin Muck Surface (			isible on Aerial Imag	jery (C9)
Algal Mat or Crust (B4)			Other (Explain in Re			tressed Plants (D1)	, ,
Iron Deposits (B5)				·	Geomorphic		
Inundation Visible on Ae	erial Imagery (	B7)			Shallow Aqu		
Water-Stained Leaves (	B9)				Microtopogra		
Aquatic Fauna (B13)					FAC-Neutra		
Field Observations:							
Surface Water Present?	Yes	No V	Depth (inches):				
Water Table Present?	Yes						
Saturation Present?	Yes	No 🗸	Depth (inches):		Hydrology Presei	nt? Yes	No
(includes capillary fringe)							
Describe Recorded Data (sti	eam gauge, n	monitoring v	vell, aerial photos, pre	evious inspections), if ava	ailable:		
Remarks:							

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

EGETATION (Five Str		Absolute	Dominant	Indicator	Sampling Point: Upland NS-8  Dominance Test worksheet:
Tree Stratum (Plot size:	r=30'		Species?		
1	,				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: (A/B)
6					Prevalence Index worksheet:
			= Total Cov	er er	Total % Cover of: Multiply by:
	50% of total of	cover: 20% of	total cover		OBL species x 1 = 0
Sapling Stratum (Plot size: _	r=15'	)			FACW species 10 x 2 = 20
1					FAC species 0 x 3 = 0
2					FACU species 30 x 4 = 120
3					UPL species 60 x 5 = 300
4					Column Totals: 100 (A) 440 (B)
5					Column Totals (A) (B)
6					Prevalence Index = B/A = 4.40
			= Total Cov	er er	Hydrophytic Vegetation Indicators:
	50% of total of	cover: 20% of	total cover	:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	r=15'	)			2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					
•					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cov	er er	Definitions of Five Vegetation Strata:
	50% of total of	cover: 20% of	total cover	:	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi	-	60	Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense		30	Yes	FACU	Sapling – Woody plants, excluding woody vines,
3. Phalaris arundinacea			No	FACW	approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
		100	= Total Cov	er er	
	50% of total of	cover:50 20% of	total cover	: 20	
Woody Vine Stratum (Plot si					
1					
2					
3					
4					
5.		-			
= -			= Total Cov	er	Hydrophytic Vegetation
	E00/ -f+-+-!	cover: 20% of			Present? Yes No
	20% Of fotal (	cover: 20% of	TOTAL COVER		

(inches)	Matrix	<u></u> %	Redox Features	oc² Tex	xture Remarks
	Color (moist)		Color (moist) % Type <sup>1</sup> L		
0-16	10YR 4/4			Slity Cla	ay loam
			- durand Matrice MO. Mandred Consideration	2,	Allere DI Deve I habe a M. Madaha
		etion, RM=Re	educed Matrix, MS=Masked Sand Grains.	Loca	ation: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
ydric Soil I			D + 0 ( (07)		
_ Histosol (		-	Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)	-	Polyvalue Below Surface (S8) (MLR		Coast Prairie Redox (A16)
_ Black His		-	Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)	-	<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>		Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>	-	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	Below Dark Surface	- Δ (Δ11)	Nedox Bark Surface (F0) Depleted Dark Surface (F7)		Other (Explain in Remarks)
	rk Surface (A12)	. ( ( ( ) )	Redox Depressions (F8)		Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LRR	R.N.	
	147, 148)		MLRA 136)	,	
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)	·	Piedmont Floodplain Soils (F19) (ML		wetland hydrology must be present,
	Matrix (S6)	·	Red Parent Material (F21) (MLRA 12		unless disturbed or problematic.
	ayer (if observed):	-			<u> </u>
Туре:					_
	hes):		_	Hvd	ric Soil Present? Yes No
Remarks:			_	,«	
temarks.					

Project/Site: Nottingham S	olar Site		Citv/	County: H	arrison Count	ty	Sampling Date:	1/13/2021
Applicant/Owner: Nottinghar			City/			State: OH	Sampling Poi	int: Upland NS-
Investigator(s): P. Renner; N								····
Landform (hillslope, terrace, e								 npe (%): 5
Subregion (LRR or MLRA): L								
Soil Map Unit Name: Morrist								<u></u>
Are climatic / hydrologic condi				_				
Are Vegetation, Soil				_			present? Yes	No
Are Vegetation, Soil _							ers in Remarks.)	110
7 lie Vegetation, con	, or riyare	,logy	natarany problem	natio:	(II IICCGCG, C	oxplain any answ	rero in remarko.)	
SUMMARY OF FINDIN	GS – Attacl	n site m	ap showing sa	mpling p	oint locatio	ons, transect	ts, important f	eatures, etc.
Hydrophytic Vegetation Pres	sent? Ye	es	No 🗸	Is the S	ampled Area		_	
Hydric Soil Present?	Ye	es	No		Wetland?	Yes	No	_
Wetland Hydrology Present?	, Ye	es	No					
Remarks:								
Non-wetland data point c	orresponding	to Wetla	ind NS-9					
·								
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary India	cators (minimum o	f two required)
Primary Indicators (minimum	of one is requi	red; check	all that apply)			Surface So		
Surface Water (A1)			True Aquatic Plants	(B14)			egetated Concave	Surface (B8)
High Water Table (A2)			Hydrogen Sulfide O			Drainage P	atterns (B10)	
Saturation (A3)			Oxidized Rhizosphe			Moss Trim		
Water Marks (B1)			Presence of Reduce				n Water Table (C2	)
Sediment Deposits (B2)			Recent Iron Reducti		l Soils (C6)	Crayfish Bu		
Drift Deposits (B3)			Thin Muck Surface				Visible on Aerial In	
Algal Mat or Crust (B4)		_	Other (Explain in Re	emarks)			Stressed Plants (D	)1)
Iron Deposits (B5)		<b>7</b> \					ic Position (D2)	
Inundation Visible on Ae		<i>(</i> )				Shallow Aq		
Water-Stained Leaves (	59)						raphic Relief (D4)	
Aquatic Fauna (B13)						FAC-Neutra	ai rest (D5)	
Field Observations:	V	N = 1	Depth (inches):					
Surface Water Present?								
Water Table Present?		No _	Depth (inches):				40. 34	No
Saturation Present? (includes capillary fringe)	Yes	No <u> </u>	Depth (inches):	<del></del>	wetland F	lydrology Prese	ent? Yes	_ No
Describe Recorded Data (str	eam gauge, mo	onitoring w	ell, aerial photos, pr	revious ins	pections), if ava	ilable:		
Remarks:								

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

EGETATION (Five Str	-		Absolute	Dominant	Indicator	Sampling Point: Upland NS-9  Dominance Test worksheet:
Tree Stratum (Plot size:	r=30'	_)		Species?		
 1						Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2						Total Number of Dominant
3						Species Across All Strata: 2 (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC:0% (A/B)
6						Prevalence Index worksheet:
				= Total Cov	er	Total % Cover of: Multiply by:
	50% of to	tal cover:	20% of	total cover		OBL species 0 x 1 = 0
Sapling Stratum (Plot size: _	r=15'	)				FACW species
1						FAC species
2						FACU species 35 x 4 = 140
3						UPL species 65 x 5 = 325
4						Column Totals: 100 (A) 465 (B)
5						Column Totals (A) (B)
6						Prevalence Index = B/A = 4.65
				= Total Cov		Hydrophytic Vegetation Indicators:
	50% of to	tal cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	r=15'	)				2 - Dominance Test is >50%
1						3 - Prevalence Index is ≤3.0 <sup>1</sup>
2						4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3						data in Remarks or on a separate sheet)
4						Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5						The distriction of the districti
6						<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			:	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of to	tal cover:	20% of	total cover:		
Herb Stratum (Plot size:		)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi			65	Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense			30	Yes	FACU	Sapling – Woody plants, excluding woody vines,
<sub>3.</sub> Cirsium arvense			5	No	FACU	approximately 20 ft (6 m) or more in height and less
4						than 3 in. (7.6 cm) DBH.
5						Shrub – Woody plants, excluding woody vines,
6						approximately 3 to 20 ft (1 to 6 m) in height.
7						Herb – All herbaceous (non-woody) plants, including
8						herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9						ft (1 m) in height.
10						Was divising. All was divising a remarkless of beingt
11						Woody vine – All woody vines, regardless of height.
			100	= Total Cov	er	
	50% of to	tal cover:5	50 20% of	total cover	20	
Woody Vine Stratum (Plot si	ze: r=3	0' )				
1						
2						
3						
4						
5.						
				= Total Cov	er	Hydrophytic Vegetation
	500/ after	tal cover:				Present? Yes No No
	DUYA OT IO	al cover:	ZU% Of	TOTAL COVER		

(inches)	Matrix	<u></u> %	Redox Features	oc² Tex	xture Remarks
	Color (moist)		Color (moist) % Type <sup>1</sup> L		
0-16	10YR 4/4			Slity Cla	ay loam
			- durand Matrice MO. Mandred Consideration	2,	Allere DI Deve I habe a M. Madaha
		etion, RM=Re	educed Matrix, MS=Masked Sand Grains.	Loca	ation: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
ydric Soil I			D + 0 ( (07)		
_ Histosol (		-	Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)	-	Polyvalue Below Surface (S8) (MLR		Coast Prairie Redox (A16)
_ Black His		-	Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)	-	<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>		Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>	-	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	Below Dark Surface	- Δ (Δ11)	Nedox Bark Surface (F0) Depleted Dark Surface (F7)		Other (Explain in Remarks)
	rk Surface (A12)	. ( ( ( ) )	Redox Depressions (F8)		Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LRR	R N.	
	147, 148)		MLRA 136)	,	
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)	·	Piedmont Floodplain Soils (F19) (ML		wetland hydrology must be present,
	Matrix (S6)	·	Red Parent Material (F21) (MLRA 12		unless disturbed or problematic.
	ayer (if observed):	-			<u> </u>
Туре:					_
	hes):		_	Hvd	ric Soil Present? Yes No
Remarks:			_	,«	
temarks.					

Project/Site: Nottingham So	olar Site		Citv/	County: Harris	son Count	:y	Sampling Date:	1/13/2021
Applicant/Owner: Nottingham Solar LLC			City/County: Harrison County Sta			State: OH	Sampling Poin	 t: Upland NS-10
nvestigator(s): P. Renner; M. Thomayer								
Landform (hillslope, terrace, et								ne (%): 5
			Lat: <u>40.193475</u> Long: <u>-81</u>					
Soil Map Unit Name: Morrist								
Are climatic / hydrologic condi				_		If no, explain in F		
Are Vegetation, Soil				-			present? Yes	No
Are Vegetation, Soil								NO
Are vegetation, 50ii	, ог пу	urology	naturally problem	iatio: (i	i needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	GS – Atta	ach site m	nap showing sai	mpling poir	nt locatio	ns, transects	s, important fe	atures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Samp	led Area		_	
Hydric Soil Present?		Yes	No V	within a We		Yes	No	_
Wetland Hydrology Present?		Yes	No					
Remarks:		<u> </u>						
Non-wetland data point co	orrespondi	ng to Wetl	and NS-6					
l l l l l l l l l l l l l l l l l l l	55 p 5							
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum		auired: chec	k all that annly)			Surface Soil		iwo roquirou,
Surface Water (A1)	Of Office 13 TC	quirea, criec		(P14)		·	, ,	Surface (PR)
l — ' '			_ True Aquatic Plants (B14) _ Hydrogen Sulfide Odor (C1)			<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>		
High Water Table (A2)		_	Oxidized Rhizosphe					
Saturation (A3)		_				Moss Trim L		
Water Marks (B1)			Presence of Reduce				Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reducti		is (Cb)	Crayfish Bur		(00)
Drift Deposits (B3)			Thin Muck Surface (				isible on Aerial Ima	
Algal Mat or Crust (B4)			Other (Explain in Re	emarks)			stressed Plants (D1	')
Iron Deposits (B5)	-i-1 l	(DZ)				Geomorphic		
Inundation Visible on Ae		(B7)				Shallow Aqu		
Water-Stained Leaves (I	39)					Microtopogra		
Aquatic Fauna (B13)						FAC-Neutra	Test (D5)	
Field Observations:								
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes		Depth (inches):					
Saturation Present?	Yes	No <u></u>	Depth (inches):		Wetland H	lydrology Presei	nt? Yes	No
(includes capillary fringe)  Describe Recorded Data (str	eam gauge	monitoring v	vell aerial photos pr	evious inspecti	ons) if ava	ilable:		
December Recorded Bata (of	oani gaago,	mormormy	well, derial prietes, pr	ovious mopesti	0110), 11 414	nabio.		
Demontos								
Remarks:								

Sampling Point:	Upland NS-10

	r=30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					Total Number of Dominant Species Across All Strata: 2 (B)
4					(b)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
0					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species0 x 1 =0
Sapling Stratum (Plot size:					FACW species0 x 2 =0
1					FAC species5 x 3 =15
2					FACU species 30 x 4 = 120
3					UPL species65 x 5 =325
4					Column Totals: 100 (A) 460 (B)
5					Column Totals (A) (B)
6					Prevalence Index = B/A = 4.60
			= Total Cove		Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	<u>r=15'</u> )				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations (Provide supporting
3					data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation¹ (Explain)
_					4
0					¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cove	er	1 1
	500/ -ft-t-l				Definitions of Five Vegetation Strata:
	50% of total cover: r=5' )	20% of	total cover:_		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	1-3	C.E.	Vos	UPL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Setaria faberi 2 Phleum pratense		<u>65</u> 30	Yes Yes		(7.0 cm) of larger in diameter at breast neight (DBH).
<b></b>		5		FACU	Sapling – Woody plants, excluding woody vines,
3. Juncus tenuis			No	<u>FAC</u>	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11.					Woody vine – All woody vines, regardless of height.
		100	= Total Cove	er	
	50% of total cover: 50				
We ask Mars Otractions (Distraction		20% 01	total cover.		
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					Hydrophytic
			= Total Cove	er	Vegetation
	50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (Include photo num			-		1
, ,	,	,			

(inches)	Matrix	<u></u> %	Redox Features	oc² Tex	xture Remarks
	Color (moist)		Color (moist) % Type <sup>1</sup> L		
0-16	10YR 4/4			Slity Cla	ay loam
			- durand Matrice MO. Mandred Consideration	2,	Allere DI Deve I habe a M. Madaha
		etion, RM=Re	educed Matrix, MS=Masked Sand Grains.	Loca	ation: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
ydric Soil I			D + 0 ( (07)		
_ Histosol (		-	Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)	-	Polyvalue Below Surface (S8) (MLR		Coast Prairie Redox (A16)
_ Black His		-	Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)	-	<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>		Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>	-	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	Below Dark Surface	- Δ (Δ11)	Nedox Bark Surface (F0) Depleted Dark Surface (F7)		Other (Explain in Remarks)
	rk Surface (A12)	. ( ( ( ) )	Redox Depressions (F8)		Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LRR	R.N.	
	147, 148)		MLRA 136)	,	
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)	·	Piedmont Floodplain Soils (F19) (ML		wetland hydrology must be present,
	Matrix (S6)	·	Red Parent Material (F21) (MLRA 12		unless disturbed or problematic.
	ayer (if observed):	-			<u> </u>
Туре:					_
	hes):		_	Hvd	ric Soil Present? Yes No
Remarks:			_	,«	
temarks.					

Project/Site: Nottingham S	olar Site		City/County: Harrison County State: OH				Sampling Date:	1/13/2021
Applicant/Owner: Nottingham		.C				State: OH	Sampling Poir	nt: Upland NS-11
			Section, Township, Range: _					
Landform (hillslope, terrace, e								pe (%): 5
Subregion (LRR or MLRA): L								
Soil Map Unit Name: Morrist						NWI classific		····
Are climatic / hydrologic condi				_				
Are Vegetation, Soil _						Circumstances" p		No
Are Vegetation, Soil _						explain any answe		140
Are vegetation, 3011	, 01 1	rydrology	riaturally proble	matic: (	ii rieeded, e	explain any answe	is iii Neiliaiks.)	
SUMMARY OF FINDIN	IGS – At	tach site n	nap showing sa	ampling poi	nt locatio	ons, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes		Yes	No Is the Sampled Area					
Hydric Soil Present?		Yes	No	within a W		Yes	No	_
Wetland Hydrology Present?	<b>,</b>		No No					
Remarks:			<u> </u>	I				
Non-wetland data point c	orrespond	ding to Wetl	and NS-11					
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum	of one is r	equired; chec	k all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)			_ True Aquatic Plants (B14)			Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)			Hydrogen Sulfide (		Drainage Patterns (B10)			
Saturation (A3)			Oxidized Rhizosph		Roots (C3)	Moss Trim Li		
Water Marks (B1)			Presence of Reduc		, ,		Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reduc		ils (C6)	Crayfish Bur		
Drift Deposits (B3)			Thin Muck Surface	e (C7)		Saturation V	isible on Aerial <b>I</b> m	agery (C9)
Algal Mat or Crust (B4)			Other (Explain in F				tressed Plants (D	
Iron Deposits (B5)				·		Geomorphic		
Inundation Visible on Ae	rial Imager	y (B7)				Shallow Aqu	itard (D3)	
Water-Stained Leaves (	B9)					Microtopogra	aphic Relief (D4)	
Aquatic Fauna (B13)						FAC-Neutral		
Field Observations:		_						
Surface Water Present?	Yes	No V	_ Depth (inches):					
Water Table Present?	Yes	_	Depth (inches):					
Saturation Present?	Yes		Depth (inches):		Wetland F	lydrology Preser	nt? Yes	No 🗸
(includes capillary fringe)		110	_ Bopan (moneo)		Wotland	iyarology i rocci		
Describe Recorded Data (str	eam gauge	e, monitoring v	well, aerial photos, p	orevious inspect	tions), if ava	ilable:		
Remarks:								

Sampling	Point:	Upland	NS-11

	r=30' ,	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					, , ,
3					Total Number of Dominant Species Across All Strata:1 (B)
4					Percent of Dominant Species
5 6					That Are OBL, FACW, or FAC:0% (A/B)
0			= Total Cove		Prevalence Index worksheet:
		·			Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species0 x 1 =0
Sapling Stratum (Plot size:	<u>r=15'</u> )				FACW species 0 x 2 = 0
1					FAC species 10 x 3 = 30
2					FACU species 60 x 4 = 240
3					
4					00 330
5					Column Totals:80 (A)320 (B)
					Prevalence Index = B/A = 4.00
		:	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:			-		2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cove	er	Definitions of Five Vegetation Strata:
	50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	<u>r=5'</u> )				approximately 20 ft (6 m) or more in height and 3 in.
1. Andropogon virginicus		50	Yes	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Daucus carota		10	No	UPL	Sapling – Woody plants, excluding woody vines,
3. Juncus tenuis		10	No	FAC	approximately 20 ft (6 m) or more in height and less
4 Solidago canadensis			No	FACU	than 3 in. (7.6 cm) DBH.
5. Symphyotrichum ericoide	 PS		No No	FACU	Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10	_				
11.					Woody vine – All woody vines, regardless of height.
· · ·		80	= Total Cove		
	40				
	50% of total cover: <u>40</u>	20% of	total cover:	16	
Woody Vine Stratum (Plot size	:: <u>r=30'</u> )				
1					
2					
3					
4					
5					Understadie
			= Total Cove	— <u>—</u> er	Hydrophytic Vegetation
	50% of total cover:				Present? Yes No
Remarks: (Include photo numb	' <u>-</u>		.J.ai 50761.		<u> </u>
Tromains. (include prioto numb	ocia nere oi on a separate s	nicci,)			

SOIL

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the ir	ndicator	or confir	m the abs	ence of indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u>	
0-16	10YR 5/3	50	10YR 6/6	30			silty clay	loam
			10YR 6/2	20				
	-		10111 0/2				· ——	
					-			
							·	
					-			
							· ——	
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		e (S8) (N	ILRA 147	', 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				, <b>,</b> _	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			-, <b>-</b> /		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,		_	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark		3)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre				_	
	/ //ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		- ( / (	,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				48)	wetland hydrology must be present,
	Matrix (S6)		Red Parent I					unless disturbed or problematic.
	Layer (if observed):					· ·	Í	· · · · · · · · · · · · · · · · · · ·
Type:	,							
	ches):						Hydric	c Soil Present? Yes No
	Ciles)		<del>_</del>				Tiyunc	300 Fresent: Tes NO
Remarks:								

Project/Site: Nottingham So	olar Site		City/0	son Count	У	1/13/2021		
Applicant/Owner: Nottingham Solar LLC			City/County: Harrison County Sta			State: OH	Sampling Poir	 nt: Upland NS-12
Investigator(s): P. Renner; M. Thomayer								
Landform (hillslope, terrace, et								ne (%): 5
Subregion (LRR or MLRA): LF								
Soil Map Unit Name: Morrist								<u></u>
Are climatic / hydrologic condit				_		If no, explain in F		
Are Vegetation, Soil				-			present? Yes _	No
								NO
Are Vegetation, Soil	, ог пу	urology	naturally problem	iatic? (I	i needed, e	xplain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	GS – Atta	ach site m	nap showing sar	mpling poin	t locatio	ns, transects	s, important fe	eatures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Samp	led Area		_	
Hydric Soil Present?		Yes	No V	within a We		Yes	No	
Wetland Hydrology Present?	1	Yes	No No			'		_
Remarks:			<u> </u>					
  Non-wetland data point co	orrespondi	ng to Wetl	and NS-12					
l l l l l l l l l l l l l l l l l l l	oo p oa							
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum		auired: chec	k all that annly)			Surface Soil		two required)
'	Of Others re	quired, criec		/D14)			, ,	Surface (B9)
Surface Water (A1)		_	_ True Aquatic Plants (B14) _ Hydrogen Sulfide Odor (C1)			<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>		
High Water Table (A2)								
Saturation (A3)			Oxidized Rhizospher			Moss Trim L		
Water Marks (B1)			Presence of Reduce				Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reduction		IS (Cb)	Crayfish Bur		(00)
Drift Deposits (B3)		_	Thin Muck Surface (				isible on Aerial Im	
Algal Mat or Crust (B4)		_	Other (Explain in Re	emarks)			stressed Plants (D	1)
Iron Deposits (B5)		(5.7)				Geomorphic		
Inundation Visible on Ae		(B7)				Shallow Aqu		
Water-Stained Leaves (F	39)						aphic Relief (D4)	
Aquatic Fauna (B13)						FAC-Neutra	Test (D5)	
Field Observations:		./						
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes		Depth (inches):					
Saturation Present?	Yes	No _ <b>_</b> _	Depth (inches):		Wetland H	ydrology Prese	nt? Yes	. No <u> </u>
(includes capillary fringe)  Describe Recorded Data (str	eam dalide	monitoring v	vell aerial nhotos nr	evious inspecti	ons) if ava	ilahle.		
Docombo Nocordod Bata (on	oam gaago,	morntoning i	voli, acriai priotoc, pri	ovidad mopoda.	0110), 11 414	nabio.		
Remarks:								
Remarks.								

Sampling Po	int: Upland NS-12
	·

	r=30' ,	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species0 x 1 =0
Sapling Stratum (Plot size:	<u>r=15'</u> )				FACW species0 x 2 =0
1					FAC species 0 x 3 = 0
2					FACU species 30 x 4 = 120
3					UPL species x 5 = 350
4					100 470
5					Column Totals:(A)(B)
_					Prevalence Index = B/A = 4.70
			= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	r=15')				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0			= Total Cove		be present, unless disturbed or problematic.
					Definitions of Five Vegetation Strata:
	50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	<u>r=5'</u> )				approximately 20 ft (6 m) or more in height and 3 in.
1 Setaria faberi		70	<u>Yes</u>	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense	1	20	Yes	FACU	Sapling – Woody plants, excluding woody vines,
3. Symphyotrichum ericoid 4.	les	10	No	<u>FACU</u>	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
					approximatory o to 20 ft (1 to 0 m) in neight.
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9		·			ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					Woody Ville - All Woody Villes, regardless of fielght.
		100 :	= Total Cove	er	
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size			-		
1					
2					
4		·			
5					Hydrophytic
		=	= Total Cove	er	Vegetation Present? Yes No ✔
	50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (Include photo num	bers here or on a separate s	sheet.)			1

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the ir	ndicator	or confir	m the abs	ence of indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u>	
0-16	10YR 5/3	50	10YR 6/6	30			silty clay	loam
			10YR 6/2	20				
	-		10111 0/2				· ——	
					-			
							·	
					-			
							· ——	
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		e (S8) (N	ILRA 147	', 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				, <b>,</b> _	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			-, <b>-</b> /		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,		_	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark		3)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre				_	
	/ //ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		- ( / (	,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				48)	wetland hydrology must be present,
	Matrix (S6)		Red Parent I					unless disturbed or problematic.
	Layer (if observed):					· ·	Í	· · · · · · · · · · · · · · · · · · ·
Type:	,							
	ches):						Hydric	c Soil Present? Yes No
	Ciles)		<del>_</del>				Tiyunc	300 Fresent: Tes NO
Remarks:								

Project/Site: Nottingham S	olar Site		Ci	tv/County: Harr	ison Coun	ty	Sampling Date:	1/13/2021
Applicant/Owner: Nottingham		С		-y		State: OH	Sampling Poi	1/13/2021 <sub>nt:</sub> Upland NS-13
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, e								ppe (%): 2
Subregion (LRR or MLRA): L						.062789		
Soil Map Unit Name: Morrist						NWI classific		···· <u></u>
Are climatic / hydrologic condi				_				
Are Vegetation, Soil _						Circumstances" p		No
Are Vegetation, Soil _						explain any answe		
Are vegetation, Joil	, 01 11	yarology	naturally probl	ematic:	(II Heeded, e	explain any answe	is iii iteiliaiks.)	
SUMMARY OF FINDIN	GS – Att	ach site n	nap showing s	ampling poi	nt locatio	ons, transects	, important f	eatures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Sam	nlad Araa			
Hydric Soil Present?		Yes	No	within a W		Yes	No	_
Wetland Hydrology Present?	,	Yes	No No					
Remarks:			<u> </u>					
Non-wetland data point c	orrespond	ling to Wetl	and NS-13					
HYDROLOGY								
Wetland Hydrology Indicat						Secondary Indica	ators (minimum of	f two required)
Primary Indicators (minimum	of one is re	equired; chec	k all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)		_	True Aquatic Plan			Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)			Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)		
Saturation (A3)			Oxidized Rhizospheres on Living Roots (C3)					
Water Marks (B1)			Presence of Redu	uced Iron (C4)		Dry-Season	Water Table (C2)	)
Sediment Deposits (B2)			Recent Iron Redu	iction in Tilled Sc	oils (C6)	Crayfish Bur		
Drift Deposits (B3)			Thin Muck Surfac			Saturation V		
Algal Mat or Crust (B4)		_	Other (Explain in	Remarks)		Stunted or Stressed Plants (D1)		
Iron Deposits (B5)						Geomorphic		
Inundation Visible on Ae		y (B7)				Shallow Aqu		
Water-Stained Leaves (	39)					Microtopogra		
Aquatic Fauna (B13)						FAC-Neutral	Test (D5)	
Field Observations:		./						
Surface Water Present?			_ Depth (inches): _					
Water Table Present?	Yes	No	_ Depth (inches): _					
Saturation Present?	Yes	No <u></u>	Depth (inches): _		Wetland F	lydrology Preser	nt? Yes	No
(includes capillary fringe)  Describe Recorded Data (str	eam gauge	e, monitoring	well, aerial photos,	previous inspec	tions), if ava	ilable:		
,	0 0	,			,,			
Remarks:								
T territori								

Sampling	Point:	Upland	NS-13

	r=30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					T. IN. I. (D. )
3					Total Number of Dominant Species Across All Strata:  1 (B)
4					Openies Across Air Otrata.
					Percent of Dominant Species That Are OBL_FACW_or FAC: 0% (A/B)
5 6.					That Are OBL, FACW, or FAC:0% (A/B)
0					Prevalence Index worksheet:
			= Total Cov		Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	<u>r=15'</u> )				FACW species5 x 2 =10
1					FAC species 10 x 3 = 30
2					FACU species 10 x 4 = 40
3					<u> </u>
4					00 355
5					Column Totals:80(A)355(B)
_					Prevalence Index = B/A = 4.44
		:	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	4-1				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4					
5		· ——			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6		. ———			be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	r=5' )				approximately 20 ft (6 m) or more in height and 3 in.
<sub>1.</sub> Setaria faberi		40	Yes	UPL_	(7.6 cm) or larger in diameter at breast height (DBH).
2. Daucus carota		15	No	UPL	Sapling – Woody plants, excluding woody vines,
3. Symphyotrichum ericoid	es	10	No	FACU	approximately 20 ft (6 m) or more in height and less
4. Juncus tenuis		10	No	FAC	than 3 in. (7.6 cm) DBH.
5. Juncus effusus		5	No	FACW	Shrub – Woody plants, excluding woody vines,
					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10		·			Woody vine – All woody vines, regardless of height.
11					
		90:	= Total Cov	er	
	50% of total cover: 45	20% of	total cover:	18	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
4					
·		· <del></del>			
J					Hydrophytic
			= Total Cov	er	Vegetation Present? Yes No   ✓
	50% of total cover:	20% of	total cover:		1 16361IL: 163 NO V
Remarks: (Include photo numb	pers here or on a separate s	sheet.)			

Profile Desc	ription: (Describe t	to the depth	needed to docun	nent the in	dicator o	or confirm	m the abs	sence of indicators.)
Depth	Matrix			K Features	_ 1			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u>	
0-16	10YR 5/4	100					silty clay	loam
							-	
								<del></del>
							· <del></del>	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	=Masked S	Sand Gra	ains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(M</b>	LRA 147	', 148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)			Piedmont Floodplain Soils (F19)
Stratified	l Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6	5)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		s (F12) <b>(I</b>	_RR N,		
	\ 147, 148)		MLRA 130					2
	Bleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	1) <b>(MLR</b>	A 127, 14 <sup>1</sup>	7)	unless disturbed or problematic.
Restrictive L	_ayer (if observed):							
Туре:								
Depth (ind	ches):						Hydri	c Soil Present? Yes No
Remarks:							I	

Project/Site: Nottingham S	olar Site		Citv/0	County: Harriso	n Count	У	Sampling Date:	1/12/2021
Applicant/Owner: Nottingham		.C	City/C			State: OH	Sampling Poir	 nt: Upland NS-14
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, e								pe (%): 2
Subregion (LRR or MLRA): L						059705		
Soil Map Unit Name: Morrist								<u></u>
Are climatic / hydrologic condi				_				
Are Vegetation, Soil _						Circumstances" p		No
Are Vegetation, Soil _						xplain any answe		140
Are vegetation, 3011	, 01 1	rydrology	naturally problem	lauc: (II II	ieeueu, e.	xpiain any answe	is iii Keiliaiks.)	
SUMMARY OF FINDIN	IGS – At	tach site n	nap showing san	mpling point	locatio	ns, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Pres	sent?	Yes	No Is the Sampled Area					
Hydric Soil Present?		Yes	No -	within a Wetla		Yes	No	
Wetland Hydrology Present?	>		No					_
Remarks:			<u> </u>					
Non-wetland data point c	orrespond	ling to Wetl	and NS-14					
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	tors (minimum of	two required)
Primary Indicators (minimum	ı of one is r	equired; chec	k all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)			True Aquatic Plants	(B14)		Sparsely Veg	getated Concave	Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)		
Saturation (A3)			Oxidized Rhizospheres on Living Roots (C3)					
Water Marks (B1)			Presence of Reduce			Dry-Season \		
Sediment Deposits (B2)			Recent Iron Reduction			Crayfish Buri		
Drift Deposits (B3)			Thin Muck Surface (	C7)		Saturation Vi	sible on Aerial Im	agery (C9)
Algal Mat or Crust (B4)			Other (Explain in Rei			Stunted or St		
Iron Deposits (B5)			Carlot (Explain in remaine)			Geomorphic Position (D2)		
Inundation Visible on Ae	erial Imagei	y (B7)				Shallow Aqui		
Water-Stained Leaves (	B9)					Microtopogra	phic Relief (D4)	
Aquatic Fauna (B13)	,					FAC-Neutral		
Field Observations:								
Surface Water Present?	Yes	No 🗸	Depth (inches):					
Water Table Present?	Yes		Depth (inches):					
Saturation Present?	Yes		Depth (inches):		letland H	ydrology Presen	it? Yes	No 🗸
(includes capillary fringe)		110				ya. 0.0gy000		
Describe Recorded Data (str	eam gauge	e, monitoring	well, aerial photos, pre	evious inspection	ns), if avai	lable:		
Remarks:								

Sampling Point:	Upland NS-14

	r=30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1	)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					Total Number of Dominant Species Across All Strata: 3 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
0					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species0 x 1 =0
Sapling Stratum (Plot size:					FACW species0 x 2 =0
1					FAC species0 x 3 =0
2					FACU species 70 x 4 = 280
3					UPL species 30 x 5 = 150
4					Column Totals: 100 (A) 430 (B)
5					Coldinii Totals(A)(b)
6					Prevalence Index = B/A = 4.30
			= Total Cove		Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	<u>r=15'</u> )				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation¹ (Explain)
_					4
0					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cove	er	1
	500/ -ft-t-l				Definitions of Five Vegetation Strata:
	50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	<u>r=5'</u> )	20	V	LIDI	approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi		<u>30</u> 50	Yes Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense			Yes	FACU	Sapling – Woody plants, excluding woody vines,
<ul><li>3. Solidago canadensis</li><li>4.</li></ul>			Yes	<u>FACU</u>	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					approximately 3 to 20 ft (1 to 0 m) in neight.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					7 th woody vines, regulatess of height.
		100	= Total Cove	er	
	50% of total cover:50	20% of	total cover:	20	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
_					
J					Hydrophytic
			= Total Cove		Vegetation Present? Yes No  ✓
	50% of total cover:	20% of	total cover:		165 140 V
Remarks: (Include photo num	bers here or on a separate s	heet.)			

0-16	Color (moist) 10YR 4/3	% Color 100	(moist) %		<u>Textu</u> silty clay	
0-10	101K 4/3				siity ciay	/ ioam
					· ·	
					· <del></del>	<del></del>
					<u> </u>	
						<del></del>
		DM Dadasad	Matrice MO March		21 41	DI Dans Links M Matrix
	ncentration, D=Depletion	on, RM=Reduced	Matrix, MS=Mask	ed Sand Grains.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils
ydric Soil Ir		_				
_ Histosol (			ark Surface (S7)	(00) (11) 54 445		2 cm Muck (A10) (MLRA 147)
	pedon (A2)		-	face (S8) (MLRA 147	', 148)	Coast Prairie Redox (A16)
_ Black His				69) <b>(MLRA 147, 148)</b>		(MLRA 147, 148)
	Sulfide (A4)		amy Gleyed Matrix		•	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		epleted Matrix (F3) edox Dark Surface			(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
	Below Dark Surface (A		edox Dark Surface epleted Dark Surfa			Other (Explain in Remarks)
	rk Surface (A12)	· —	edox Depressions (		,	Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(LRR</b>			sses (F12) <b>(LRR N,</b>		
	147, 148)		MLRA 136)	3003 (1 12) <b>(ERRY)</b>		
	eyed Matrix (S4)	Ur	•	) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation an
Sandy Re				Soils (F19) (MLRA 14	48)	wetland hydrology must be present,
	Matrix (S6)			(F21) <b>(MLRA 127, 14</b>		unless disturbed or problematic.
	ayer (if observed):				Í	
Туре:						
	hes):				Hydrid	c Soil Present? Yes No _
					Tiyun	C 3011 FTeSent: Tes NO
Remarks:						

Project/Site: Nottingham So	olar Site		City/0	County: Harris	on Count	У	Sampling Date:	1/12/2021
Applicant/Owner: Nottinghar		2	City/0			State: OH	Sampling Poin	 t: Upland NS-15
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, et								ne (%): 2
Subregion (LRR or MLRA): LF							Datum	
Soil Map Unit Name: Morrist								
Are climatic / hydrologic condit				_		If no, explain in R		
Are Vegetation, Soil				-			oresent? Yes	No
Are Vegetation, Soil								NO
Are vegetation, 50ii	, ог пу	urology	naturally problem	iatic? (II	i needed, e	xplain any answe	is in Remarks.)	
SUMMARY OF FINDIN	GS – Atta	ach site m	nap showing sar	mpling poin	t locatio	ns, transects	, important fe	atures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Samp	led Area		_	
Hydric Soil Present?		Yes	No	within a We		Yes	No	_
Wetland Hydrology Present?		Yes	No					
Remarks:		<u> </u>						
Non-wetland data point co	orrespondi	ng to Wetl	and NS-15					
l l l l l l l l l l l l l l l l l l l								
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum		auired: chec	k all that annly)			Surface Soil		iwo reganoa <sub>j</sub>
Surface Water (A1)	01 0110 13 10	quirea, criec		(R14)		·	, ,	Surface (B8)
<del></del>			_ True Aquatic Plants (B14) _ Hydrogen Sulfide Odor (C1)			<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>		
High Water Table (A2)		_	<ul><li> Oxidized Rhizospheres on Living Roots (C3)</li></ul>					
Saturation (A3)		_						
Water Marks (B1)			Presence of Reduce				Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reduction		s (C6)	Crayfish Bur		(00)
Drift Deposits (B3)			Thin Muck Surface (				isible on Aerial Ima	
Algal Mat or Crust (B4)			Other (Explain in Re	emarks)			tressed Plants (D1	')
Iron Deposits (B5)	-i-1 l	(DZ)				Geomorphic		
Inundation Visible on Ae		(B7)				Shallow Aqu		
Water-Stained Leaves (F	39)					Microtopogra		
Aquatic Fauna (B13)						FAC-Neutral	Test (D5)	
Field Observations:								
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes		Depth (inches):					
Saturation Present?	Yes	No <u></u>	Depth (inches):		Wetland H	ydrology Preser	nt? Yes	No
(includes capillary fringe)  Describe Recorded Data (str	eam gauge	monitoring v	well aerial photos pre	evious inspection	ons) if avai	ilable:		
Bosonbe Necorded Bata (str	barri gaago,	mormormy	well, derial priotos, pri	evicus inspessio	5110), 11 ava	nabio.		
Demontos								
Remarks:								

Sampling	Point:	Upland	NS-15

	r=30' ,	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					Total Number of Dominant
3					Species Across All Strata: 3 (B)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species 0 x 1 = 0
Sapling Stratum (Plot size:	<u>r=15'</u> )				FACW species 0 x 2 = 0
1					FAC species0 x 3 =0
2					FACU species 70 x 4 = 280
3					UPL species 30 x 5 = 150
4					Column Totals: 100 (A) 430 (B)
5					Column Totals (A) (B)
6					Prevalence Index = B/A = 4.30
			= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	<u>r=15'</u> )				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 <sup>1</sup>
2					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3					data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5					1
6.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cove	er	Definitions of Five Vegetation Strata:
	FOO/ of total covers				Demilitions of Five Vegetation Strata.
Hank Charture (District	50% of total cover: r=5'	20% 01	total cover.		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	)	30	Yes	UPL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense		50	Yes	FACU	(7.0 cm) of larger in diameter at breast neight (DBH).
3. Solidago canadensis		20	Yes	FACU	Sapling – Woody plants, excluding woody vines,
4				FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11		100			
			= Total Cove	er	
	50% of total cover:50	20% of	total cover:	20	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
5.					
=-			= Total Cove		Hydrophytic
	E00/ - E4-4-1				Vegetation Present? Yes No
	50% of total cover:		total cover:		
Remarks: (Include photo num	bers here or on a separate s	sheet.)			

0-16	Color (moist) 10YR 4/3	% Color 100	(moist) %		<u>Textu</u> silty clay	
0-10	101K 4/3				siity ciay	/ ioam
					· ·	
					· <del></del>	<del></del>
					<u> </u>	
						<del></del>
		DM Dadasad	Matrice MO March		21 41	DI Dans Links M Matrix
	ncentration, D=Depletion	on, RM=Reduced	Matrix, MS=Mask	ed Sand Grains.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils
ydric Soil Ir		_				
_ Histosol (			ark Surface (S7)	(00) (11) 54 445		2 cm Muck (A10) (MLRA 147)
	pedon (A2)		-	face (S8) (MLRA 147	', 148)	Coast Prairie Redox (A16)
_ Black His				69) <b>(MLRA 147, 148)</b>		(MLRA 147, 148)
	Sulfide (A4)		amy Gleyed Matrix		•	Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		epleted Matrix (F3) edox Dark Surface			(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
	Below Dark Surface (A		edox Dark Surface epleted Dark Surfa			Other (Explain in Remarks)
	rk Surface (A12)	· —	edox Depressions (		,	Other (Explain in Nemarks)
	ucky Mineral (S1) <b>(LRR</b>			sses (F12) <b>(LRR N,</b>		
	147, 148)		MLRA 136)	3003 (1 12) <b>(ERRY)</b>		
	eyed Matrix (S4)	Ur	•	) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation an
Sandy Re				Soils (F19) (MLRA 14	48)	wetland hydrology must be present,
	Matrix (S6)			(F21) <b>(MLRA 127, 14</b>		unless disturbed or problematic.
	ayer (if observed):				Í	
Туре:						
	hes):				Hydrid	c Soil Present? Yes No _
					Tiyun	C 3011 FTeSent: Tes NO
Remarks:						

Project/Site: Nottingham So	oject/Site: Nottingham Solar Site			City/County: Harrison County State: OH			Sampling Date: 1/12/2021		
Applicant/Owner: Nottingham Solar LLC			<i>ONY, COUNTY</i> .			State: OH	Sampling Poin	 <sub>it:</sub> Upland NS-16	
Investigator(s): P. Renner; M. Thomayer									
Landform (hillslope, terrace, et								ne (%): 2	
Subregion (LRR or MLRA): LRR N Lat								Datum: <u>NAD83</u>	
Soil Map Unit Name: Morrist									
Are climatic / hydrologic condi				_		If no, explain in F			
Are Vegetation, Soil				-			present? Yes	No	
Are Vegetation, Soil								NO	
Are vegetation, 50ii	, ог пу	urology	naturally problem	iatic? (i	i needed, e	xplain any answe	ers in Remarks.)		
SUMMARY OF FINDIN	GS – Atta	ach site m	nap showing sar	mpling poin	t locatio	ns, transects	s, important fe	atures, etc.	
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Samp	led Area		_		
Hydric Soil Present?		Yes	No	within a We		Yes	No	_	
Wetland Hydrology Present?	,	Yes	No						
Remarks:									
Non-wetland data point co	orrespondi	ng to Wetl	and NS-16						
'	•	J							
HYDROLOGY									
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)	
Primary Indicators (minimum		auired: chec	k all that annly)			Surface Soil		two required;	
'	01 0110 13 10	quirea, criec		(R14)		·	, ,	Surface (B8)	
Surface Water (A1) High Water Table (A2)			_ True Aquatic Plants (B14) _ Hydrogen Sulfide Odor (C1)			<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
Saturation (A3)			Oxidized Rhizosphe			Moss Trim L			
		_							
Water Marks (B1)		_	Presence of Reduce				Water Table (C2)		
Sediment Deposits (B2)		_	Recent Iron Reduction		is (Co)	Crayfish Bur		ogom/ (CO)	
Drift Deposits (B3)			Thin Muck Surface (				isible on Aerial Ima		
Algal Mat or Crust (B4)		_	Other (Explain in Re	marks)			stressed Plants (D1	''	
Iron Deposits (B5)	wiel leseween.	(DZ)				Geomorphic			
Inundation Visible on Ae		(B7)				Shallow Aqu			
Water-Stained Leaves (I	39)					Microtopogra			
Aquatic Fauna (B13)				1		FAC-Neutra	T lest (D5)		
Field Observations:									
Surface Water Present?			Depth (inches):						
Water Table Present?	Yes		Depth (inches):						
Saturation Present?	Yes	No <u></u>	Depth (inches):		Wetland H	ydrology Presei	nt? Yes	No	
(includes capillary fringe)  Describe Recorded Data (str	eam gauge.	monitoring	well, aerial photos, pr	revious inspecti	ons), if avai	ilable:			
· ·	3 3 ,	3	, , , , , , , , , , , , , , , , , , , ,	'	,,				
Remarks:									
Remarks.									
								1	

Sampling Point:	Upland NS-16

	r=30'	Absolute	Dominant I		Dominance Test worksheet:	
Tree Stratum (Plot size:	1–30 )	% Cover	Species?	Status	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: (A)	
2					T ( IN ) ( C)	
3					Total Number of Dominant Species Across All Strata:  2 (B)	
					Species Across Air Strata.	
					Percent of Dominant Species	
5			. ———		That Are OBL, FACW, or FAC: 50% (A/E	3)
6					Prevalence Index worksheet:	
			= Total Cove	r		
	50% of total cover:	20% of	f total cover:		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:			_		OBL species	
,					FACW species 40 x 2 = 80	
					FAC species0 x 3 =0	
2					FACU species60 x 4 =240	
3					UPL species 0 x 5 = 320	
4			. <u> </u>	-	100	
5					Column Totals: 100 (A) 3.20 (B	')
6					Prevalence Index = B/A = 3.20	
			= Total Cove		Hydrophytic Vegetation Indicators:	
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:		_	_		2 - Dominance Test is >50%	
					3 - Prevalence Index is ≤3.0 <sup>1</sup>	
1					4 - Morphological Adaptations <sup>1</sup> (Provide supporting	na
2					data in Remarks or on a separate sheet)	ıg
3			· ·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4					resistance rijuroprijus vegetation (Explain)	
5					The Product of the Advanced and the Adva	
6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
			= Total Cove	r	Definitions of Five Vegetation Strata:	
			TOTAL COVO	•	Definitions of Five Vedetation Strata:	
					Dominiono or rivo vogotation otrata.	
	50% of total cover:	20% of	f total cover:_		Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	-1	20% of	f total cover:_		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
1. Asclepias syriaca	-1	5	total cover:_ No	FACU	Tree – Woody plants, excluding woody vines,	
1. Asclepias syriaca 2. Phleum pratense	-1				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
1. Asclepias syriaca	-1	5	No	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
1. Asclepias syriaca 2. Phleum pratense	-1	5 55	No Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,	
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4.	-1	5 55	No Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,	
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	-1	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including	
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	2
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4. 5	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4. 5	r=5' )	5 55 40	No Yes Yes	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )	5 55 40	No Yes Yes  Total Cove	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4.	r=5' )  50% of total cover:50	5 55 40	No Yes Yes  Total Cove	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )  50% of total cover:50	5 55 40	No Yes Yes  Total Cove	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4		5 100 20% of	No Yes Yes  Total Cover total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4		5 55 40 ————————————————————————————————	No Yes Yes  Total Cover total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4.	50% of total cover:50 e:r=30')		No Yes Yes  Total Cover total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )  50% of total cover:50 e:r=30' )	5 100 20% of	No Yes Yes  Total Cover total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	50% of total cover:50 e:r=30')	5 100 20% of	No Yes Yes  Total Cover total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )  50% of total cover:50 e:r=30' )		No Yes Yes  Total Covering total cover:	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
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1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )  50% of total cover:50 e:r=30' )	5 100 20% of	No Yes Yes  Total Covering total cover:  Total Covering total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4	r=5' )  50% of total cover:50 e:50% of total cover:	5 100 20% of	No Yes Yes  Total Covering total cover:  Total Covering total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation	3
1. Asclepias syriaca 2. Phleum pratense 3. Phalaris arundinacea 4.	r=5' )  50% of total cover:50 e:50% of total cover:	5 100 20% of	No Yes Yes  Total Covering total cover:  Total Covering total cover:	FACU FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation	3

(inches)	Matrix	<u></u> %	Redox Features	oc <sup>2</sup> Texture Remarks
nches)	Color (moist)		Color (moist) % Type <sup>1</sup> Lo	
0-16	10YR 5/4			silty clay loam
-				
				<del></del>
<u>.</u>	-			
	turting D. David		and the state of Market Market of County County	21 ti Di Dono Liniu y M. Matrix
ype: C=Co ydric Soil I		etion, RM=Re	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil
-			D 1 0 ( (07)	-
_ Histosol (			Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Below Surface (S8) (MLR/	
_ Black His			Thin Dark Surface (S9) (MLRA 147,	<b>(MLRA 147, 148)</b> Piedmont Floodplain Soils (F19)
	n Sulfide (A4) Layers (A5)		<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
	Below Dark Surface	(Δ11)	Nedox Bark Surface (F0) Depleted Dark Surface (F7)	Other (Explain in Remarks)
	rk Surface (A12)	, (, (, 1, 1, )	Redox Depressions (F8)	Other (Explain in remarks)
	ucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F12) (LRR	N.
	. 147, 148)		MLRA 136)	,
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	<sup>3</sup> Indicators of hydrophytic vegetation ar
	edox (S5)		Piedmont Floodplain Soils (F19) (ML	
	Matrix (S6)		Red Parent Material (F21) (MLRA 12	
	ayer (if observed):			
Туре:				
	ches):		_	Hydric Soil Present? Yes No _
Denth (inc			_	injunio com i roccini.
Depth (inc				

Project/Site: Nottingham Se	ct/Site: Nottingham Solar Site			City/County: Harrison Count			Sampling Date:	1/13/2021
Applicant/Owner: Nottingham Solar LLC			City/County: Harrison Count			State: OH	Sampling Poir	 nt: Upland NS-17
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, e								ne (%): 5
Subregion (LRR or MLRA): LRR N L						063496		
Soil Map Unit Name: Morrist								<u></u>
Are climatic / hydrologic condi				_				
Are Vegetation, Soil						Circumstances" p		No
Are Vegetation, Soil _								NO
Are vegetation, Soil	, or n	yarology	naturally probler	mauc? (	n needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	GS – Att	ach site n	nap showing sa	mpling poir	nt locatio	ns, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Samp	alad Araa			
Hydric Soil Present?		Yes	No	within a We		Yes	No	
Wetland Hydrology Present?	,		No No					_
Remarks:			<del></del>					
Non-wetland data point co	orrespond	ling to Wetl	and NS-17					
HYDROLOGY								
						0 1 1 1		
Wetland Hydrology Indicat						Secondary Indica		two required)
Primary Indicators (minimum	of one is re	equired; chec				Surface Soil	• ,	
Surface Water (A1)			_ True Aquatic Plants (B14)			Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)			_ Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)		
Saturation (A3)		_	Oxidized Rhizospheres on Living Roots (C3)					
Water Marks (B1)		_	Presence of Reduc			Dry-Season		
Sediment Deposits (B2)		_	Recent Iron Reduct		ils (C6)	Crayfish Bur		(22)
Drift Deposits (B3)		_	_ Thin Muck Surface (C7)			<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>		
Algal Mat or Crust (B4)		_	Other (Explain in R	(emarks)				1)
Iron Deposits (B5)		(DZ)				Geomorphic		
Inundation Visible on Ae		y (B7)				Shallow Aqu		
Water-Stained Leaves (I	39)					Microtopogra		
Aquatic Fauna (B13)						FAC-Neutral	Test (D5)	
Field Observations:		./						
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes		_ Depth (inches):					
Saturation Present?	Yes	No _ <b>_</b>	_ Depth (inches):		Wetland H	lydrology Preser	nt? Yes	. No <u> </u>
(includes capillary fringe)  Describe Recorded Data (str	eam dande	monitoring	well aerial photos p	revious inspect	ions) if ava	ilahle.		
	can gaage	,g	, ac.iai piiotos, p		,,			
Remarks:								
ixemarks.								

Sampling	Point:	Upland	NS-17

	r=30' ,	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:1	)	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					Total Neverbour of Descious
3					Total Number of Dominant Species Across All Strata:  1 (B)
					(E)
5					Percent of Dominant Species That Are OBL_FACW_or_FAC: 0% (A/B)
0					That Are OBL, FACW, or FAC:(A/B)
0			= Total Cov		Prevalence Index worksheet:
		<u> </u>			Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:		OBL species0 x 1 =0
Sapling Stratum (Plot size:	r=15')				FACW species0 x 2 =0
1					FAC species 0 x 3 = 0
2					FACU species 65 x 4 = 260
3					
4					UPL species $35 \times 5 = 175$ Column Totals: $100 \times (A) \times 435 \times (B)$
5					Column Totals:(A)(B)
_					Prevalence Index = B/A = 4.35
		:	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
·	,				3 - Prevalence Index is ≤3.0 <sup>1</sup>
1					4 - Morphological Adaptations (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		· <del></del>			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6		<del></del>			be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover:	20% of	total cover:		To a Manda de la transladio e una de cina
Herb Stratum (Plot size:	r=5' )				<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Solidago canadensis	,	5	No	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Daucus carota		10	No	UPL	Carling Manager 1
3. Setaria faberi		25	Yes	UPL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Phleum pratense		50	Yes	FACU	than 3 in. (7.6 cm) DBH.
5. Festuca rubra		10	Yes	FACU	
				FACO	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					<b>Herb</b> – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10.					ft (1 m) in height.
		· ——			Woody vine – All woody vines, regardless of height.
11		100	= Total Cov		
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot siz	e:)				
1					
2					
3					
5.					
		·	= Total Cov		Hydrophytic
	<b>500</b> / 5/ /				Vegetation Present? Yes No   ✓
	50% of total cover:		total cover:		
Remarks: (Include photo num	bers here or on a separate	sheet.)			