Depth (inches)	Matrix	<u></u> %		x Features	Loc ² T	a	Damanka	
0-16	Color (moist) 10YR 5/3	%	Color (moist) 10YR 6/6	<u>%Type</u> 1		exture clay loam	Remarks	<u> </u>
0-16	1018 5/3				Silty C	lay loarn		
		· -	10YR 6/2					
			_					
				·	· <u></u>			
					· 			
					·			
				·	· <u></u>			
								
					·			
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked Sand Gr	ains. ² Lo	cation: PL=Pore l		
ydric Soil	Indicators:					Indicators for	Problematic F	lydric Soils ³ :
_ Histosol			Dark Surface				k (A10) (MLRA	
	oipedon (A2)		-	elow Surface (S8) (N			iirie Redox (A16	5)
	stic (A3)			urface (S9) (MLRA '	147, 148)	·	147, 148)	
	en Sulfide (A4)			ed Matrix (F2)			Floodplain Soils	s (F19)
	d Layers (A5)		Depleted Ma			•	136, 147)	·- (TE40)
	ick (A10) (LRR N) d Below Dark Surface	o (A11)	Redox Dark	Suпасе (F6) rk Surface (F7)			low Dark Surfac plain in Remark	
	ark Surface (A12)	e (ATT)	Redox Depre			Other (Ex	piairi iri Kerilark	5)
	fucky Mineral (S1) (L	RR N.		iese Masses (F12) (LRR N.			
	\ 147, 148)		MLRA 13					
	Gleyed Matrix (S4)			ace (F13) (MLRA 13	6, 122)	³ Indicators o	f hydrophytic ve	egetation and
	Redox (S5)			oodplain Soils (F19)			drology must be	-
_ Stripped	Matrix (S6)			Material (F21) (MLR		unless dist	urbed or probler	matic.
estrictive l	Layer (if observed):							
Туре:								•
Depth (in	ches):				Ну	dric Soil Present	t? Yes	No
emarks:	<u> </u>				<u>_</u>		<u> </u>	

Project/Site: Nottingham Se	olar Site	City/County: Harrison County			Sampling Date: 1/12/2021	
Applicant/Owner: Nottingham Solar LLC			,.	State: OH	Sampling Point: Upland NS-18	
		omayer Section, Township, Range				
Landform (hillslope, terrace, etc.): Hillslope Local relief (cor Subregion (LRR or MLRA): LRR N Lat: 40.190355					Datum: NAD83	
Soil Map Unit Name: Morrist						
Are climatic / hydrologic condi			_			
			-		· •	
Are Vegetation, Soil				l Circumstances" pres		
Are Vegetation, Soil	, or Hydrology	naturally problematic	? (If needed, e	explain any answers i	in Remarks.)	
SUMMARY OF FINDIN	IGS – Attach site n	nap showing samp	ling point location	ons, transects, i	mportant features, etc.	
Hydrophytic Vegetation Pres	sent? Yes	No 🗸	the Sampled Area			
Hydric Soil Present?	Yes		ithin a Wetland?	Yes	No	
Wetland Hydrology Present?						
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicat	ors:			Secondary Indicator	rs (minimum of two required)	
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil Cra	acks (B6)	
Surface Water (A1)		True Aquatic Plants (B1	4)	Sparsely Veget	ated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odor (Drainage Patter		
Saturation (A3)		Oxidized Rhizospheres	on Living Roots (C3)	Moss Trim Line	s (B16)	
Water Marks (B1)		Presence of Reduced Ire	on (C4)	Dry-Season Wa	ater Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction in	n Tilled Soils (C6)	Crayfish Burrow	vs (C8)	
Drift Deposits (B3)		Thin Muck Surface (C7)		Saturation Visib	ole on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Other (Explain in Remar	·ks)	Stunted or Stres	ssed Plants (D1)	
Iron Deposits (B5)				Geomorphic Po	sition (D2)	
Inundation Visible on Ae				Shallow Aquitar		
Water-Stained Leaves (I	B9)			Microtopograph		
Aquatic Fauna (B13)				FAC-Neutral Te	est (D5)	
Field Observations:	./					
Surface Water Present?		Depth (inches):				
Water Table Present?	Yes No					
Saturation Present?	Yes No _	Depth (inches):	Wetland h	Hydrology Present?	Yes No	
(includes capillary fringe) Describe Recorded Data (str	ream gauge, monitoring	well, aerial photos, previo	us inspections), if ava	ailable:		
(gg-,g	,	,,			
Remarks:						
remarks.						

Sampling	Point:	Upland	NS-18

	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 Neverbour of Descious
3					Total Number of Dominant Species Across All Strata: 3 (B)
					(E)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
•					That Are OBL, FACW, or FAC:0% (A/B)
0			= Total Cove		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
2					1710 oposico x o
3					'
4					UPL species 40 x 5 = 200
5					Column Totals:100 (A)440 (B)
_					Prevalence Index = B/A = 4.40
		:	= 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 ¹
1					4 - Morphological Adaptations (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
5		· 			¹ 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:		To a Manda de la transladio e una de cina
Herb Stratum (Plot size:	-1				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		40	Yes	FACU	Carling Manager 1
3 Daucus carota		10	No	UPL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4 Solidago canadensis		20	Yes	FACU	than 3 in. (7.6 cm) DBH.
				1700	
5 6.					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
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		100			
			= Total Cove	er	
	50% of total cover:50	20% of	total cover:	20	
Woody Vine Stratum (Plot siz	e: <u>r=30'</u>)				
1					
_					
3					
5					
o		·	= Total Cove		Hydrophytic
					Vegetation Present? Yes No ✓
	50% of total cover:	20% of	total cover:		100
Remarks: (Include photo num	bers here or on a separate	sheet.)			

Depth	Matrix	<u></u> %	Redox Features	Loc ² Te	extureRemarks
inches)	Color (moist)		Color (moist) % Type ¹		
0-16	10YR 5/4			silty c	lay loam
					
					
		letier DM D	and the second Manager of Council O	21	ation. Di Dona Linius M Matrix
		oletion, RM=R	educed Matrix, MS=Masked Sand G	rains. Loc	ation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
lydric Soil I					•
_ Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Below Surface (S8) (Coast Prairie Redox (A16)
Black His			Thin Dark Surface (S9) (MLRA	147, 148)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Matrix (F3)Redox Dark Surface (F6)		(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	Below Dark Surfac	ρ (Δ11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	rk Surface (A12)	e (A11)	Redox Depressions (F8)		Other (Explain in Remarks)
	ucky Mineral (S1) (I	RRN	Iron-Manganese Masses (F12)	(I RR N	
	. 147, 148)	LIKIK IV,	MLRA 136)	(LIXIX IV,	
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 1	36 122)	³ Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLF		unless disturbed or problematic.
	.ayer (if observed):	 :			ameed distance of processings.
Type:	, (, .				
	do o o) .		_	Line	dric Soil Present? Yes No 🗸
	:hes):		-	пус	dric Soil Present? Yes No
temarks:					

Project/Site: Nottingham Solar Site			City/County: Harrison County State: C			ty	Sampling Date: 1/13/2021	
Applicant/Owner: Nottingham		С				State: OH	Sampling Poir	nt: Upland NS-19
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, e								pe (%): 10
Subregion (LRR or MLRA): L						.056136		
Soil Map Unit Name: Morrist								····
Are climatic / hydrologic condi				_				
Are Vegetation, Soil _						Circumstances" p		No
Are Vegetation, Soil _						explain any answe		140
Are vegetation, 3011	, 01 11	yurology	naturally probl	ematic:	ii needed, e	explain any answe	is iii Keiliaiks.)	
SUMMARY OF FINDIN	GS – Att	ach site m	nap showing s	ampling poi	nt locatio	ons, transects	, important fe	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?	,		No					
Remarks:		<u> </u>						
Non-wetland data point c	orrespond	ling to Wetl	and NS-19					
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum		aquired: chec	k all that annly)			Surface Soil		two required)
	Of Others re	equired, criec		ato (P14)				Surface (B9)
Surface Water (A1)		_	True Aquatic Plar Hydrogen Sulfide			Sparsely ve	getated Concave	Surface (Bo)
High Water Table (A2) Saturation (A3)		_	Oxidized Rhizosp		Poots (C3)	Moss Trim L		
Water Marks (B1)		_	Presence of Redu		10013 (03)		Water Table (C2)	
Sediment Deposits (B2)		_	Recent Iron Redu		ils (C6)	Crayfish Bur		
Drift Deposits (B3)		_	Thin Muck Surfac		113 (00)		isible on Aerial I m	agery (C9)
Algal Mat or Crust (B4)		_	Other (Explain in				tressed Plants (D	
Iron Deposits (B5)			Otror (Explain in	rtomantoj		Geomorphic		''
Inundation Visible on Ae	erial Imager	v (B7)				Shallow Aqu		
Water-Stained Leaves (, (2.)				Microtopogra		
Aquatic Fauna (B13)	20)					FAC-Neutral		
Field Observations:								
Surface Water Present?	Vac	No.	Depth (inches):					
Water Table Present?	Yes		Depth (inches): _					
					\Madlamal I	ludua la mu Dua a a	-42 Vaa	No 🗸
Saturation Present? (includes capillary fringe)	Yes	No _ _	Depth (inches): _		wetiana r	lydrology Preser	it? Yes	NO
Describe Recorded Data (str	eam gauge	, monitoring v	well, aerial photos,	previous inspec	tions), if ava	ilable:		
·								
Remarks:								
T territori								

Sampling	Point:	Upland	NS-19

	r=30' ,	Absolute Dominant Indicator	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: 2 (B)
			Descent of Deminent Charles
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
0		= Total Cover	Prevalence Index worksheet:
	500/ of total occurr		Total % Cover of: Multiply by:
0 li 01 1 (DI 1 i		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 20 x 4 = 80
3			UPL species80 x 5 =400
4			Column Totals:100 (A)480 (B)
_		·	Prevalence Index = B/A = 4.80
<u> </u>		= Total Cover	Hydrophytic Vegetation Indicators:
	50% of total cover	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		20 % of total cover	2 - Dominance Test is >50%
•	/		3 - Prevalence Index is ≤3.0 ¹
1			4 - Morphological Adaptations ¹ (Provide supporting
2			data in Remarks or on a separate sheet)
3			Problematic Hydrophytic Vegetation ¹ (Explain)
5			¹ Indicators of hydric soil and wetland hydrology must
6			be present, unless disturbed or problematic.
		= Total Cover	Definitions of Five Vegetation Strata:
		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.
			(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense		20 Yes FACU	Sapling – Woody plants, excluding woody vines,
3		·	approximately 20 ft (6 m) or more in height and less
4			than 3 in. (7.6 cm) DBH.
5			Shrub – Woody plants, excluding woody vines,
6			approximately 3 to 20 ft (1 to 6 m) in height.
7			Herb – All herbaceous (non-woody) plants, including
8			herbaceous vines, regardless of size, and woody
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 Cover	
	50% of total covers 50	20% of total cover: 20	
Moody Vino Stratum (Dlot oiz		20% of total cover. 20	
Woody Vine Stratum (Plot siz			
1			
2			
3			
4		·	
5		· ——— ———	Hydrophytic
		= Total Cover	Vegetation
	50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (Include photo num	bers here or on a separate s	sheet.)	1

Depth	Matrix	<u></u> %	Redox Features	Loc ² Te	extureRemarks
inches)	Color (moist)		Color (moist) % Type ¹		
0-16	10YR 5/4			silty c	lay loam
					
					
		letier DM D	and the second Manager of Council O	21	ation. Di Dona Linius M Matrix
		oletion, RM=R	educed Matrix, MS=Masked Sand G	rains. Loc	ation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
lydric Soil I					•
_ Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Below Surface (S8) (Coast Prairie Redox (A16)
Black His			Thin Dark Surface (S9) (MLRA	147, 148)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Matrix (F3)Redox Dark Surface (F6)		(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	Below Dark Surfac	ρ (Δ11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	rk Surface (A12)	e (A11)	Redox Depressions (F8)		Other (Explain in Remarks)
	ucky Mineral (S1) (I	RRN	Iron-Manganese Masses (F12)	(I RR N	
	. 147, 148)	LIKIK IV,	MLRA 136)	(LIXIX IV,	
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 1	36 122)	³ Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLF		unless disturbed or problematic.
	.ayer (if observed):	 :			ameed distance of processings.
Type:	, (, .				
	do o o) .		_	Line	dric Soil Present? Yes No 🗸
	:hes):		-	пус	dric Soil Present? Yes No
temarks:					

Project/Site: Nottingham Solar Site			City/County: Harrison County State: OH			:y	Sampling Date: 1/13/2021	
Applicant/Owner: Nottingham Solar LLC			City/county:			State: OH	Sampling Poir	 nt: Upland NS-20
Investigator(s): P. Renner; N								
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, conver						 pe (%): 5		
Subregion (LRR or MLRA): LI							Datur	
Soil Map Unit Name: Morrist								
Are climatic / hydrologic condi				_		If no, explain in F		
Are Vegetation, Soil				-			present? Yes _	No
								NO
Are Vegetation, Soil	, 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 sar	mpling poin	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 No	within a We		Yes	No	_
Wetland Hydrology Present?		Yes	No					
Remarks:				1				
Non-wetland data point co	orrespondi	ing to Wetl	and NS-20					
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		two regarday
Surface Water (A1)	01 0110 13 10	quired, crice	True Aquatic Plants	(R14)		·	getated Concave	Surface (B8)
l — ' '			Hydrogen Sulfide Od			Drainage Pa		Surface (Bo)
High Water Table (A2)								
Saturation (A3)			Oxidized Rhizosphe			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)	-i-1 l	. (DZ)				Geomorphic		
Inundation Visible on Ae		(B7)				Shallow Aqu		
Water-Stained Leaves (I	39)						aphic Relief (D4)	
Aquatic Fauna (B13)				1		FAC-Neutra	Litest (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 Prese	nt? Yes	No
(includes capillary fringe) Describe Recorded Data (str	eam gauge	monitoring v	well aerial photos pr	evious inspecti	ons) if ava	ilable [.]		
December Recorded Bata (of	oani gaago,	mormornig .	well, derial priotos, pr	ovious inoposti	0110), 11 414	nabio.		
Demontos								
Remarks:								

Sampling	Point:	Upland	NS-20

	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-t-I Novel on of Descionat
3					Total Number of Dominant Species Across All Strata: 1 (B)
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 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 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:	4 = 1				2 - Dominance Test is >50%
·					3 - Prevalence Index is ≤3.0 ¹
1					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
5		· 			¹ 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:		
Herb Stratum (Plot size:	r=5')				Tree – 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		5	No	UPL	Carling Washington to the state of the state
3. Setaria faberi		30	Yes	UPL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Phleum pratense		30	Yes	FACU	than 3 in. (7.6 cm) DBH.
5. Festuca rubra		30	Yes	FACU	
				FACO	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10.					ft (1 m) in height.
		· ———			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: <u>r=30'</u>)				
1					
_					
3					
				_	
5.					
		·	= Total Cov		Hydrophytic
	500 / 54 / 1				Vegetation Present? Yes No ✓
	50% of total cover:		total cover:		
Remarks: (Include photo num	bers here or on a separate	sheet.)			

Depth (inches)	Matrix	<u></u> %		x Features	Loc ² T	a	Damanka	
0-16	Color (moist) 10YR 5/3	%	Color (moist) 10YR 6/6	<u>%Type</u> 1		exture clay loam	Remarks	<u> </u>
0-16	1018 5/3				Silty C	lay loarn		
		· -	10YR 6/2					
			_					
				·	· <u></u>			
					· 			
					·			
				·	· <u></u>			
								
					·			
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked Sand Gr	ains. ² Lo	cation: PL=Pore l		
ydric Soil	Indicators:					Indicators for	Problematic F	lydric Soils ³ :
_ Histosol			Dark Surface				k (A10) (MLRA	
	oipedon (A2)		-	elow Surface (S8) (N			iirie Redox (A16	5)
	stic (A3)			urface (S9) (MLRA '	147, 148)	·	147, 148)	
	en Sulfide (A4)			ed Matrix (F2)			Floodplain Soils	s (F19)
	d Layers (A5)		Depleted Ma			•	136, 147)	·- (TE40)
	ick (A10) (LRR N) d Below Dark Surface	o (A11)	Redox Dark	Suпасе (F6) rk Surface (F7)			low Dark Surfac plain in Remark	
	ark Surface (A12)	e (ATT)	Redox Depre			Other (Ex	piairi iri Kerilark	5)
	fucky Mineral (S1) (L	RR N.		iese Masses (F12) (LRR N.			
	\ 147, 148)		MLRA 13					
	Gleyed Matrix (S4)			ace (F13) (MLRA 13	6, 122)	³ Indicators o	f hydrophytic ve	egetation and
	Redox (S5)			oodplain Soils (F19)			drology must be	-
_ Stripped	Matrix (S6)			Material (F21) (MLR		unless dist	urbed or probler	matic.
estrictive l	Layer (if observed):							
Туре:								•
Depth (in	ches):				Ну	dric Soil Present	t? Yes	No
emarks:	<u> </u>				<u>_</u>		<u> </u>	

Project/Site: Nottingham S	olar Site	City/County	Sai	mpling Date: <u>3/16/2021</u>	
Applicant/Owner: Nottingham			St	ate: OH	Sampling Point: Upland NS-21
Investigator(s): P. Renner; S		Section, To			
Landform (hillslope, terrace, e					
Subregion (LRR or MLRA): L					
Soil Map Unit Name: Morrist			_		
Are climatic / hydrologic condi			•		
			-	cumstances" prese	· •
Are Vegetation, Soil				•	
Are Vegetation, Soil _	, or Hydrology	naturally problematic?	(If needed, expla	in any answers in	Remarks.)
SUMMARY OF FINDIN	IGS – Attach site n	nap showing samplin	g point locations,	transects, in	nportant features, etc.
Hydrophytic Vegetation Pres	sent? Yes	No Is th	e Sampled Area		
Hydric Soil Present?	Yes		in a Wetland?	Yes	No
Wetland Hydrology Present?					
Remarks:					
Non-wetland data point of	, 0				
HYDROLOGY					
Wetland Hydrology Indicat	tors:		Sec	ondary Indicators	(minimum of two required)
Primary Indicators (minimum	n of one is required; chec	k all that apply)		Surface Soil Crad	cks (B6)
Surface Water (A1)		True Aquatic Plants (B14)		Sparsely Vegetat	ted Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor (C1		Drainage Pattern	
Saturation (A3)		Oxidized Rhizospheres on	Living Roots (C3)	Moss Trim Lines	(B16)
Water Marks (B1)		Presence of Reduced Iron	(C4)	Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in T	illed Soils (C6)	Crayfish Burrows	s (C8)
Drift Deposits (B3)		Thin Muck Surface (C7)		Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)		Stunted or Stress	sed Plants (D1)
Iron Deposits (B5)				Geomorphic Pos	ition (D2)
Inundation Visible on Ae			_	Shallow Aquitard	
Water-Stained Leaves ((B9)			Microtopographic	
Aquatic Fauna (B13)				FAC-Neutral Tes	t (D5)
Field Observations:	./				
Surface Water Present?		_ Depth (inches):			
Water Table Present?	Yes No _	- ' '			
Saturation Present?	Yes No _	Depth (inches):	Wetland Hydro	ology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (str	ream gauge monitoring	well aerial photos previous	inspections) if available	a·	
Become Hederaea Bata (et.	ream gaage, memering	won, acriai priotoc, providac	mopodionoj, mavanasi	J.	
Remarks:					
Remarks.					

/EGETATION (Five Stra	ata) – Use	e scientific	names of p	plants.		Sampling Point: Upland NS-21
T 0: : (DI : :	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)
3						Species Across All Strata: (B)
4						Percent of Dominant Species
5						That Are OBL, FACW, or FAC:0% (A/B)
6						Prevalence Index worksheet:
				= Total Cov		Total % Cover of: Multiply by:
		otal cover:	20% of	total cover:	:	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:		/				FACW species0 x 2 =0
1						FAC species0 x 3 =0
2						FACU species80 x 4 =320
3						UPL species 20 x 5 = 100
4						Column Totals: 100 (A) 420 (B)
5						
6					·	Prevalence Index = B/A = 4.20
				= Total Cov	er	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 ≤3.0 ¹
2						4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation ¹ (Explain)
4						
5						¹ Indicators of hydric soil and wetland hydrology must
6					. ——	be present, unless disturbed or problematic.
			:	= Total Cov	er	Definitions of Five Vegetation Strata:
	-1	otal cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	r=5'	_)	20	V -	1101	approximately 20 ft (6 m) or more in height and 3 in.
1. Setaria faberi				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. Festuca rubra			15	No	FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4						than 3 in. (7.6 cm) DBn.
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						All was divided and property of beight
11						Woody vine – All woody vines, regardless of height.
			100_ :	= Total Cov	er er	
	50% of to	otal cover:5	50 20% of	total cover:	: 20	
Woody Vine Stratum (Plot size		· · · · · · · · · · · · · · · · · · ·				
1						
2						
3						
4						
o				- Total Cay		Hydrophytic
				= Total Cov		Vegetation Present? Yes No
		otal cover:		total cover:	·	100 100 100 100 100 100 100 100 100 100
Remarks: (Include photo nun	nbers here o	or on a separate	e sheet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	ent the ind	icator c	or confirm	the absen	ce of indica	ators.)	
Depth	Matrix			K Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Гуре ¹	Loc ²	Texture		Remai	rks
0-16	10YR 5/4	100				S	ilty clay lo	am		
			_		-		-	_		
					-			<u> </u>		
								_		
								_		
1			- de d NA-4-ide NAC				21 1:	DI Dame I	tortor or NA NA-	4
	ncentration, D=Depl	etion, RM=R	educed Matrix, MS	s=Masked Sa	and Gra	ins.			ining, M=Ma	trix. c Hydric Soils³:
Hydric Soil I			5 1 6 6	(07)			Ina			-
Histosol			Dark Surface		(OO) (BE				(A10) (MLF	
Black His	ipedon (A2)		Polyvalue Be				148)		rie Redox (A	(16)
	n Sulfide (A4)		Thin Dark Su Loamy Gleye			47, 140)			147, 148) Floodplain S	oile (E10)
	Layers (A5)		Depleted Mat		,		_		136, 147)	olis (i-19)
	ck (A10) (LRR N)		Redox Dark S					•	ow Dark Sur	face (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		7)				olain in Rema	
	rk Surface (A12)	()	Redox Depre		- /		_			····,
	ucky Mineral (S1) (L	RR N,	Iron-Mangane		(F12) (L	RR N,				
	147, 148)		MLRA 130		. , ,					
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (ML	RA 136	6, 122)	3	ndicators of	hydrophytic	vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain Soils	s (F19) (MLRA 14	l8)	wetland hyc	Irology must	be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F21)	(MLRA	A 127, 147	7)	unless distu	rbed or prob	lematic.
Restrictive L	.ayer (if observed):									
Туре:			<u> </u>							
Depth (inc	:hes):		<u> </u>				Hydric S	oil Present	? Yes	No
Remarks:							· I			

Project/Site: Nottingham Se	olar Site	City/Cou	_{intv:} Harrison Coun	ty s	Sampling Date: <u>3/16/2021</u>
Applicant/Owner: Nottinghar			<u>-</u>	State: OH	Sampling Point: Upland NS-22
Investigator(s): P. Renner; S		Section,			
Landform (hillslope, terrace, e					
					Datum: <u>NAD83</u>
Soil Map Unit Name: Morrist			_		
Are climatic / hydrologic condi					
			•		
Are Vegetation, Soil				l Circumstances" pre	
Are Vegetation, Soil	, or Hydrology	naturally problemation	c? (It needed, e	explain any answers	in Remarks.)
SUMMARY OF FINDIN	IGS – Attach site n	nap showing samp	ling point location	ons, transects, i	important features, etc.
Hydrophytic Vegetation Pres	sent? Yes	_ No_ /	s the Sampled Area		
Hydric Soil Present?	Yes		vithin a Wetland?	Yes	No
Wetland Hydrology Present?					
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicat	tors:			Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil Cr	acks (B6)
Surface Water (A1)	<u></u>	True Aquatic Plants (B1	4)	Sparsely Veget	tated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor		Drainage Patte	
Saturation (A3)	<u> </u>	Oxidized Rhizospheres		Moss Trim Line	
Water Marks (B1)		Presence of Reduced In		Dry-Season Wa	ater Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction i	n Tilled Soils (C6)	Crayfish Burrov	ws (C8)
Drift Deposits (B3)	_	Thin Muck Surface (C7)		Saturation Visit	ble on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Remain	rks)	Stunted or Stre	essed Plants (D1)
Iron Deposits (B5)				Geomorphic Po	osition (D2)
Inundation Visible on Ae				Shallow Aquita	
Water-Stained Leaves (I	B9)			Microtopograph	
Aquatic Fauna (B13)				FAC-Neutral Te	est (D5)
Field Observations:					
Surface Water Present?		Depth (inches):			
Water Table Present?	Yes No	- · · · / 			
Saturation Present?	Yes No _	Depth (inches):	Wetland H	Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (str	ream gauge monitoring	well aerial photos previo	ous inspections) if ava	ailable:	
	cam gaage, memering	rren, aeriai prietes, previs	, accp concc), a		
Remarks:					
ixemarks.					

/EGETATION (Five Str	ata) – Use s	cientific n	ames of p	olants.		Sampling Point: Upland NS-22
Tree Stratum (Plot size:	r=30'	1		Dominant Species?		Dominance Test worksheet: Number of Dominant Species
1						That Are OBL, FACW, or FAC:0 (A)
2						Total Number of Dominant Species Across All Strata: 2 (B)
3						Species Across All Strata: 2 (B)
4 5.						Percent of Dominant Species
6						That Are OBL, FACW, or FAC:0% (A/B)
0				= Total Cove	er	Prevalence Index worksheet:
	50% of tota	cover:				Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)	20 /6 01	total cover.		OBL species 0 x 1 = 0
1		/				FACW species0 x 2 =0
2						FAC species x 3 = 0
3.						FACU species 80 x 4 = 320
4						UPL species 20 x 5 = 100 Column Totals: 100 (A) 420 (B)
5						Column Totals:(A)(B)
6						Prevalence Index = B/A = 4.20
			=	= Total Cove	er	Hydrophytic Vegetation Indicators:
	50% of tota	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 ¹
2						4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3						Problematic Hydrophytic Vegetation¹ (Explain)
4						1 Toblematio Trydrophytic Vegetation (Explain)
5						¹ Indicators of hydric soil and wetland hydrology must
6						be present, unless disturbed or problematic.
				= Total Cove		Definitions of Five Vegetation Strata:
		cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	1=5)	20	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			65	Yes	FACU	(7.0 cm) of larger in diameter at breast neight (DBH).
3 Festuca rubra			15	No	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
					170	than 3 in. (7.6 cm) DBH.
_						Shrub – Woody plants, excluding woody vines,
5 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 tota	cover:50	20% of	total cover:	20	
Woody Vine Stratum (Plot si	ze: <u>r=30</u>)				
1						
2						
3						
4						
5						Hydrophytic
				= Total Cove		Vegetation Present? Yes No
		cover:		total cover:		1165GHt: 165NU▼
Remarks: (Include photo nur	nbers here or o	n 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 ¹	Loc ²	<u>Textu</u>	
0-16	10YR 5/4	100					silty clay	loam
							-	
								
							· 	
¹ 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 ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surface	e (S8) (M	LRA 147	', 148)	Coast Prairie Redox (A16)
Black His			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) (L	RR N,	Iron-Mangan		s (F12) (I	_RR N,		
	\ 147, 148)		MLRA 130					2
	Bleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	1) (MLR	A 127, 14 ¹	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		City	//County: Harri	ison Count	.y	Sampling Date: 3	/16/2021
Applicant/Owner: Nottingham		С			arrison County Sampling Date: 3/16/20 State: OH Sampling Point: Uplar			Upland NS-23
Investigator(s): P. Renner; S								
Landform (hillslope, terrace, e								e (%): 5
Subregion (LRR or MLRA): L							Datum	
Soil Map Unit Name: Lowell :						NWI classific		·
Are climatic / hydrologic condi						(If no, explain in R		
Are Vegetation, Soil _				-			present? Yes	No
Are Vegetation, Soil _						explain any answe		
Are vegetation, 3011	, 01 11	yurology	naturally proble	matic: (ii rieeded, e	explain any answe	is in Kemarks.)	
SUMMARY OF FINDIN	GS – Att	ach site m	nap showing sa	ampling poi	nt locatio	ns, transects	s, important fea	atures, etc.
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸	Is the Sam	nled Area		_	
Hydric Soil Present?		Yes	No	within a We		Yes	No	
Wetland Hydrology Present?	,	Yes	No No					
Remarks:		<u> </u>						
Non-wetland data point c	orrespond	ling to Wetl	and NS-23					
·	·							
HYDROLOGY								
Wetland Hydrology Indicat	ors:					Secondary Indica	ators (minimum of t	wo required)
Primary Indicators (minimum	of one is re	equired; chec	k all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)			True Aquatic Plants	e Aquatic Plants (B14)			getated Concave S	urface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)		
Saturation (A3)			Oxidized Rhizosph		Roots (C3)	Moss Trim L		
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		,		isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)			Other (Explain in R				tressed Plants (D1)	
Iron Deposits (B5)			, ,	,		Geomorphic		
Inundation Visible on Ae	rial Imager	y (B7)				Shallow Aqu		
Water-Stained Leaves (, ,				Microtopogra		
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):		Wotland L	lydrology Preser	st? Voc	No 🗸
(includes capillary fringe)	168	INO	_ Deptil (inches)		welland r	iyarology Preser	itr res	140
Describe Recorded Data (str	eam gauge	, monitoring v	well, aerial photos, p	previous inspect	ions), if ava	ilable:		
Remarks:								

/EGETATION (Five Stra	ata) – Use scientific r	ames of p	lants.		Sampling Point: Upland NS-23
	r=30'		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:		% Cover			Number of Dominant Species That Are OBL FACW or FAC: 0 (A)
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant Species Across All Strata: 2 (B)
3					Species Across All Strata: (B)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
					That Are OBL, FACW, or FAC:(A/B)
·		=		er	Prevalence Index worksheet:
	50% of total cover:				Total % Cover of: Multiply by:
Sapling Stratum (Plot size:		20 /0 01 0	otal cover.		OBL species x 1 = 0
1					FACW species 0 x 2 = 0
2					FAC species x 3 = 0
3					FACU species 80 x 4 = 320
4.					UPL species 20 x 5 = 100 (A) 420 (B)
_					Column Totals:(A)(B)
6					Prevalence Index = B/A = 4.20
		=	Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:	20% of t	otal cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations (Provide supporting
3					data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
4					Problematic Hydrophytic Vegetation (Explain)
5					¹ 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 t	otal 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			Yes Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
2. Phleum pratense 3. Festuca rubra		_ 	Yes No.	FACU	Sapling – Woody plants, excluding woody vines,
3. restuca rubra			No	<u>FACU</u>	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.
6					
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
11					Woody vine – All woody vines, regardless of height.
			Total Cov	er	
	50% of total cover:50				
Woody Vine Stratum (Plot siz	·				
1					
2					
3					
5					Hydrophytic
		=	Total Cov	er	Hydrophytic Vegetation
	50% of total cover:	20% of t	otal cover:		Present? Yes No
Remarks: (Include photo num					1

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 ¹	Loc ²	<u>Textu</u>	
0-16	10YR 5/4	100					silty clay	loam
							-	
								
							· 	
¹ 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 ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surface	e (S8) (M	LRA 147	', 148)	Coast Prairie Redox (A16)
Black His			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) (L	RR N,	Iron-Mangan		s (F12) (I	_RR N,		
	\ 147, 148)		MLRA 130					2
	Bleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	1) (MLR	A 127, 14 ¹	7)	unless disturbed or problematic.
Restrictive L	_ayer (if observed):							
Туре:								
Depth (ind	ches):						Hydri	c Soil Present? Yes No
Remarks:							I	

APPENDIX D OEPA ORAM DATA SHEETS

Site: Nottingham	Solar Site	Rater(s): P. Renner		Date: 1/13/2021
2 2	Metric 1. Wetland	Area (size).		: W-PJR-20210113-9 ID: Wetland NS-1
max 6 pts. subtotal	Select one size class and assign so >50 acres (>20.2ha) (6 p 25 to <50 acres (10.1 to - 10 to <25 acres (4 to <10 3 to <10 acres (1.2 to <4) 0.3 to <3 acres (0.12 to < 0.1 to <0.3 acres (0.04 to <0.1 acres (0.04ha) (0 pt)	ts) <20.2ha) (5 pts) I.1ha) (4 pts) na) (3 pts) I.2ha) (2pts) I.4 <0.12ha) (1 pt)		
6 8	Metric 2. Upland b	uffers and surround	ing land use.	
max 14 pts. subtotal	WIDE. Buffers average 5 MEDIUM. Buffers average 5 NARROW. Buffers average 7 VERY NARROW. Buffers average 7 VERY LOW. Old field (>10 year MODERATELY HIGH. Fi	Select only one and assign score. If 50m (164ft) or more around wetland p ge 25m to <50m (82 to <164ft) around age 10m to <25m (32ft to <82ft) around s average <10m (<32ft) around wetland se. Select one or double check and a or older forest, prairie, savannah, wild res), shrub land, young second growth desidential, fenced pasture, park, consopen pasture, row cropping, mining, of	erimeter (7) If wetland perimeter (4) Ind wetland perimeter (1) Ind perimeter (0) Ind perimeter (0) Ind perimeter (7) Ind perimeter (7) Ind perimeter (7) Ind perimeter (8) Ind perimeter (8) Ind perimeter (9) Ind perimeter (1) In	ow field. (3)
16 24	Metric 3. Hydrolog	у.		
max 30 pts. subtotal	3a. Sources of Water. Score all th High pH groundwater (5) Other groundwater (3) ✓ Precipitation (1) Seasonal/Intermittent sur Perennial surface water (3c. Maximum water depth. Select ✓ >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6i <0.4m (<15.7in) (1) 3e. Modifications to natural hydrological periods and the surface water (15.7in) (1)	face water (3) lake or stream) (5) 3d. only one and assign score.	Part of wetland/u Part of riparian or Duration inundation/sati Semi- to permane Regularly inunda Seasonally inunda Seasonally satura	iin (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
	None or none apparent (Recovered (7) Recovering (3) Recent or no recovery (1	ditch tile dike weir stormwater input	point source (non filling/grading road bed/RR trac dredging other	
6 30	Metric 4. Habitat A	Alteration and Develo	opment.	
max 20 pts. subtotal	4a. Substrate disturbance. Score of None or none apparent (Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select of			
	Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)			
30 subtotal this pa	•	Check all disturbances observed mowing grazing	shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	ttic bed removal
last revised 1 Februa	ry ∠uu¹i jjm			

Site: No	ottingham	Solar Site	Rate	er(s): P. Renne	er	Date: 1/13/2021
	30 btotal first pa 30 subtotal	Check all the second of the se	c 5. Special Wetla that apply and score as indicated agg (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetlan Lake Erie coastal/tributary wetlan Lake Plain Sand Prairies (Oak O Relict Wet Prairies (10) Known occurrence state/federal temporary	ands. Ind-unrestricted hydrologenings) (10) Inhreatened or enda	rology (10) ogy (5) ingered species (10)	
			Significant migratory songbird/wa Category 1 Wetland. See Questi			
		1 			erspersion, microto	pography.
-1	29			,	, ,	
max 20 pts.	subtotal		nd Vegetation Communities.		Community Cover Scale	
			resent using 0 to 3 scale.	<u>0</u> 1	Absent or comprises <0.1ha (0.24	
			Aquatic bed Emergent	ı	Present and either comprises smuvegetation and is of moderate of	
			Shrub		significant part but is of low qua	· · · · · · · · · · · · · · · · · · ·
		-	Forest	2	Present and either comprises sign	
		1	Mudflats		vegetation and is of moderate of	uality or comprises a small
			Open water		part and is of high quality	
			Other	3	Present and comprises significan	
		Select only	ntal (plan view) Interspersion.		vegetation and is of high quality	
			High (5)	Narrative Do	escription of Vegetation Quality	
			Moderately high(4)	low	Low spp diversity and/or predomi	nance of nonnative or
			Moderate (3)	<u> </u>	disturbance tolerant native spec	pies
			Moderately low (2)	mod	Native spp are dominant compon	_
			_ow (1)		although nonnative and/or distu	
			None (0) age of invasive plants. Refer		can also be present, and species moderately high, but generally was	
			ORAM long form for list. Add		threatened or endangered spp	Wo presence of fare
			points for coverage	high	A predominance of native species	s, with nonnative spp
			Extensive >75% cover (-5)		and/or disturbance tolerant nati	ve spp absent or virtually
			Moderate 25-75% cover (-3)		absent, and high spp diversity a	
			Sparse 5-25% cover (-1)		the presence of rare, threatener	d, or endangered spp
			Nearly absent <5% cover (0) Absent (1)	Mudflat and	Open Water Class Quality	
			opography.	0	Absent <0.1ha (0.247 acres)	
			resent using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	cres)
			/egetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88	acres)
			Coarse woody debris >15cm (6in	·	High 4ha (9.88 acres) or more	
			Standing dead >25cm (10in) dbh		ranhy Cover Scale	
		_ 1 <i>F</i>	Amphibian breeding pools	<u> </u>	raphy Cover Scale Absent	
				1	Present very small amounts or if of marginal quality	more common
				2	Present in moderate amounts, bu quality or in small amounts of h	=
				3	Present in moderate or greater ar	<u> </u>
					and of highest quality	

29

Site: Nottingham	Solar Site	Rater(s): P. Renner		Date: 1/13/2021
2 2	Metric 1. Wetland A	area (size).		: W-PJR-20210113-10 D: Wetland NS-2
max 6 pts. subtotal	Select one size class and assign sco >50 acres (>20.2ha) (6 pts 25 to <50 acres (10.1 to <2 10 to <25 acres (4 to <10.1 3 to <10 acres (1.2 to <4ha 0.3 to <3 acres (0.12 to <1 0.1 to <0.3 acres (0.04 to < <1.1 colors (0.04 to <10.1 acres (0.04ha) (0 pts)) 20.2ha) (5 pts) ha) (4 pts) n) (3 pts) .2ha) (2pts) :0.12ha) (1 pt)		
6 8	Metric 2. Upland bu	iffers and surroundi	ng land use.	
max 14 pts. subtotal	WIDE. Buffers average 50 MEDIUM. Buffers average VERY NARROW. Buffers VERY NARROW. Buffers 2b. Intensity of surrounding land use VERY LOW. 2nd growth of LOW. Old field (>10 years MODERATELY HIGH. Re	Select only one and assign score. Down (164ft) or more around wetland per 25m to <50m (82 to <164ft) around we 10m to <25m (32ft to <82ft) around average <10m (<32ft) around wetland average some or double check and average forest, prairie, savannah, wildlie, shrub land, young second growth for sidential, fenced pasture, park, consepen pasture, row cropping, mining, co	imeter (7) vetland perimeter (4) I wetland perimeter (1) I perimeter (0) erage. fe area, etc. (7) vrest. (5) rvation tillage, new fallo	ow field. (3)
16 24	Metric 3. Hydrology	/.	• ,	
max 30 pts. subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (la 3c. Maximum water depth. Select o V >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in <0.4m (<15.7in) (1) 3e. Modifications to natural hydrolog	nce water (3) ke or stream) (5) 3d. [nly one and assign score.	Part of wetland/up Part of riparian or Duration inundation/satu Semi- to permane Regularly inundat Seasonally inund Seasonally satura	in (1) ake and other human use (1) cland (e.g. forest), complex (1) cupland corridor (1) curation. Score one or dbl check. ently inundated/saturated (4) red/saturated (3)
	None or none apparent (12 Recovered (7) Recovering (3) Recent or no recovery (1)	ditch tile dike weir stormwater input	point source (non filling/grading road bed/RR trac dredging other	·
4 28	Metric 4. Habitat Al	teration and Develo	pment.	
max 20 pts. subtotal	 4a. Substrate disturbance. Score or None or none apparent (4) Recovered (3) Recovering (2) ✓ Recent or no recovery (1) 4b. Habitat development. Select onl Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) ✓ Poor to fair (2) Poor (1) 			
	4c. Habitat alteration. Score one or None or none apparent (9)			
28 subtotal this pa last revised 1 Februa	Recovered (6) Recovering (3) Recent or no recovery (1)	✓ mowing grazing clearcutting selective cutting woody debris removal toxic pollutants	shrub/sapling rem herbaceous/aqua sedimentation dredging farming nutrient enrichme	tic bed removal

Site: No	ttingham	Solar Site Rater	(s): P. Renn		Date: 1/13/2021
Oite. No	rttingnam	Tatel	(3). 1.1101111	01	Datc. 1/10/2021
	28				
su	btotal first pa] ge			
	•	Metric 5. Special Wetlan	de		
0	28	wether of opecial wethan			
max 10 pts.	subtotal	I Check all that apply and score as indicated.			
		Bog (10)			
		Fen (10)			
		Old growth forest (10)			
		Mature forested wetland (5)			
		Lake Erie coastal/tributary wetland-t	•	. ,	
		Lake Plain Sand Prairies (Oak Oper		logy (3)	
		Relict Wet Prairies (10)	95) (15)		
		Known occurrence state/federal thre	eatened or enda	angered species (10)	
		Significant migratory songbird/water		• , ,	
T I		Category 1 Wetland. See Question			
4	27	Metric 6. Plant commun	ities, int	erspersion, microto	ppography.
-1	21				
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.		Community Cover Scale	
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2	, -
		Aquatic bed 1 Emergent	1	Present and either comprises sm vegetation and is of moderate of	•
		Shrub		significant part but is of low qua	
		Forest	2	Present and either comprises sig	-
		Mudflats		vegetation and is of moderate of	quality or comprises a small
		Open water		part and is of high quality	
		Other 6b. horizontal (plan view) Interspersion.	3	Present and comprises significan	
		Select only one.		vegetation and is of high quality	
		High (5)	Narrative D	escription of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predomi	nance of nonnative or
		Moderate (3)		disturbance tolerant native spec	
		Moderately low (2)	mod	Native spp are dominant compon	
		Low (1) None (0)		although nonnative and/or distuction also be present, and species	
		6c. Coverage of invasive plants. Refer		moderately high, but generally	•
		to Table 1 ORAM long form for list. Add		threatened or endangered spp	
		or deduct points for coverage	high	A predominance of native species	
		Extensive >75% cover (-5)		and/or disturbance tolerant nati	
		✓ Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)		absent, and high spp diversity a the presence of rare, threatene	
		Nearly absent <5% cover (0)		The presence of fare, illicaterie	a, or chaangered app
		Absent (1)	Mudflat and	d Open Water Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	
		Vegetated hummucks/tussucks Coarse woody debrie >15cm (6in)	3	Moderate 1 to <4ha (2.47 to 9.88	acres)
		O Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh		High 4ha (9.88 acres) or more	
		Amphibian breeding pools	Microtopog	raphy Cover Scale	
			0	Absent	
			1	Present very small amounts or if	more common
				of marginal quality	4 - 4 - 4 - 4 - 4 - 4
			2	Present in moderate amounts, bu quality or in small amounts of h	
			3	Present in moderate or greater a	
			-	and of highest quality	

Site: Nottingham	Solar Site	Rater(s): P. Renner		Date: 1/13/2021
0 0	Metric 1. Wetla	nd Area (size).): W-PJR-20210113-7 ID: Wetland NS-3
max 6 pts. subtotal	10 to <25 acres (4 to <10 acres (1.2 to <3 to <3 acres (0.1) (6 pts) .1 to <20.2ha) (5 pts) o <10.1ha) (4 pts) to <4ha) (3 pts) 2 to <1.2ha) (2pts) .04 to <0.12ha) (1 pt)		
6 8	Metric 2. Uplan	d buffers and surrou	nding land use.	
max 14 pts. subtotal	WIDE. Buffers ave MEDIUM. Buffers ave NARROW. Buffers VERY NARROW. I Intensity of surrounding la VERY LOW. 2nd g LOW. Old field (>1 MODERATELY HIG	width. Select only one and assign scor rage 50m (164ft) or more around wetlan average 25m to <50m (82 to <164ft) ard average 10m to <25m (32ft to <82ft) a Buffers average <10m (<32ft) around w and use. Select one or double check a rowth or older forest, prairie, savannah 0 years), shrub land, young second gro GH. Residential, fenced pasture, park, strial, open pasture, row cropping, mini	nd perimeter (7) cound wetland perimeter (4) around wetland perimeter (1) retland perimeter (0) and average. , wildlife area, etc. (7) owth forest. (5) conservation tillage, new fallo	ow field. (3)
9 17	Metric 3. Hydro		, , , , , , , , , , , , , , , , , , ,	
max 30 pts. subtotal	3c. Maximum water depth. S >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to	er (5) (3) nt surface water (3) vater (lake or stream) (5) select only one and assign score.	Part of wetland/u Part of riparian of the state of the st	ain (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
	None or none appa Recovered (7) Recovering (3) Recent or no recove	ditch tile dike weir stormwater input	point source (nor filling/grading road bed/RR trac dredging other	·
4 21	Metric 4. Habita	at Alteration and Dev	elopment.	
max 20 pts. subtotal	None or none appa Recovered (3) Recovering (2)	ery (1) lect only one and assign score.		
		one or double check and average. rent (9) Check all disturbances obse	nyed	
21 subtotal this pa last revised 1 Februa	Recovered (6) Recovering (3) Recent or no recovered	mowing grazing	shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	atic bed removal

Site: Nottinghai	m Solar Site Rater	(s): P. Renn	er	Date: 1/13/2021
Ofte. Nothinghai	Trate	(3).	CI CI	Datc. 1/10/2021
21				
subtotal first	page			
	Metric 5. Special Wetlan	nde		
0 21	Metric 3. Opeciai Wetian	id3.		
max 10 pts. subtota	Check all that apply and score as indicated.			
·	Bog (10)			
	Fen (10)			
	Old growth forest (10)			
	Mature forested wetland (5)			
	Lake Erie coastal/tributary wetland-u	•	. ,	
	Lake Plain Sand Prairies (Oak Oper		logy (3)	
	Relict Wet Prairies (10)	95) (15)		
	Known occurrence state/federal three	eatened or enda	angered species (10)	
	Significant migratory songbird/water		9 ()	
,	Category 1 Wetland. See Question	1 Qualitative R	ating (-10)	
	Metric 6. Plant commun	ities, int	erspersion, microto	pography.
-1 20			-	
max 20 pts. subtota	oa. Wolana Vogotation Communico.	<u>Vegetation</u>	Community Cover Scale	
	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.24	, <u> </u>
	Aquatic bed 1 Emergent	1	Present and either comprises sma vegetation and is of moderate q	•
	Shrub		significant part but is of low qua	•
	Forest	2	Present and either comprises sign	-
	Mudflats		vegetation and is of moderate q	
	Open water		part and is of high quality	
	Other	3	Present and comprises significant	
	6b. horizontal (plan view) Interspersion. Select only one.	-	vegetation and is of high quality	<u> </u>
	High (5)	Narrative D	escription of Vegetation Quality	
	Moderately high(4)	low	Low spp diversity and/or predomi	nance of nonnative or
	Moderate (3)		disturbance tolerant native spec	
	Moderately low (2)	mod	Native spp are dominant component	
	Low (1)		although nonnative and/or distu	• •
	6c. Coverage of invasive plants. Refer		can also be present, and specie moderately high, but generally was a second control of the can be can be can also be present, and species and can be can also be present, and species are can be can also be present, and species are can also be present.	
	to Table 1 ORAM long form for list. Add		threatened or endangered spp	we procented of fair
	or deduct points for coverage	high	A predominance of native species	s, with nonnative spp
	Extensive >75% cover (-5)		and/or disturbance tolerant nativ	
	✓ Moderate 25-75% cover (-3)		absent, and high spp diversity a	
	Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	-	the presence of rare, threatened	a, or endangered spp
	Absent (1)	Mudflat and	d Open Water Class Quality	
	6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
	Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	cres)
	0 Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88	acres)
	O Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
	O Standing dead >25cm (10in) dbh Amphibian breeding pools	Microtopoo	raphy Cover Scale	
		0	Absent	
		1	Present very small amounts or if r	more common
			of marginal quality	
		2	Present in moderate amounts, bu	
		3	quality or in small amounts of hi Present in moderate or greater ar	<u> </u>
		3	and of highest quality	indunta

Site: Nottingham	n Solar Site	Rater(s): P. Renner		Date: 1/13/2021
0 0	Metric 1. Wetland A	area (size).		: W-PJR-20210113-1 ID: Wetland NS-4
max 6 pts. subtotal	Select one size class and assign sco >50 acres (>20.2ha) (6 pts 25 to <50 acres (10.1 to <2 10 to <25 acres (4 to <10.1 3 to <10 acres (1.2 to <4ha 0.3 to <3 acres (0.12 to <1 0.1 to <0.3 acres (0.04 to <1) 20.2ha) (5 pts) ha) (4 pts) n) (3 pts) .2ha) (2pts) :0.12ha) (1 pt)		
6 6	Metric 2. Upland bu	iffers and surroundi	ing land use.	
max 14 pts. subtotal	MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers but NARROW. Buffers VERY LOW. 2nd growth of LOW. Old field (>10 years MODERATELY HIGH. Re	m (164ft) or more around wetland pe 25m to <50m (82 to <164ft) around 10m to <25m (32ft to <82ft) around 10m average <10m (<32ft) around wetlan	erimeter (7) wetland perimeter (4) d wetland perimeter (1) d perimeter (0) verage. life area, etc. (7) forest. (5) ervation tillage, new fallo	ow field. (3)
9 15	Metric 3. Hydrology	/.		
max 30 pts. subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surfa Perennial surface water (la 3c. Maximum water depth. Select o >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in ✓ <0.4m (<15.7in) (1) 3e. Modifications to natural hydrolog	nce water (3) ke or stream) (5) 3d. nly one and assign score.	Part of wetland/u Part of riparian or Duration inundation/sat Semi- to permand Regularly inunda Seasonally inund Seasonally satura	nin (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
	None or none apparent (12 Recovered (7) Recovering (3) Recent or no recovery (1)	ditch tile dike weir stormwater input	point source (nor filling/grading road bed/RR tracd dredging other	,
4 19	Metric 4. Habitat Al	teration and Develo	pment.	
max 20 pts. subtotal	4a. Substrate disturbance. Score or None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select onl Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)	·		
	4c. Habitat alteration. Score one or None or none apparent (9)			
19 subtotal this p last revised 1 Februa	Recovered (6) Recovering (3) Recent or no recovery (1)	mowing grazing clearcutting selective cutting woody debris removal toxic pollutants	shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	ttic bed removal

Site: No	ttingham	Solar Site Rater	(s): P. Renn	er	Date: 1/13/2021
Oito: 110	tungnam	Tutor	(3):	<u> </u>	Dato: 1/10/2021
	19				
su	btotal first pa	J ge			
0	10	Metric 5. Special Wetlan	ıds.		
0	19				
max 10 pts.	subtotal	Check all that apply and score as indicated.			
		Bog (10) Fen (10)			
		Old growth forest (10)			
		Mature forested wetland (5)			
		Lake Erie coastal/tributary wetland-u	•	. ,	
		Lake Erie coastal/tributary wetland-r		logy (5)	
		Lake Plain Sand Prairies (Oak Oper Relict Wet Prairies (10)	nings) (10)		
		Known occurrence state/federal thre	eatened or enda	angered species (10)	
		Significant migratory songbird/water			
		Category 1 Wetland. See Question	1 Qualitative R	lating (-10)	
		Metric 6. Plant commun	ities. int	erspersion, microto	opography.
-2	17			,	- Jo - 9 10 17.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation	Community Cover Scale	
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.24	, <u> </u>
		Aquatic bed	1	Present and either comprises sm	
		1 Emergent Shrub		vegetation and is of moderate of significant part but is of low qua	
		Forest	2	Present and either comprises sig	•
		Mudflats	_	vegetation and is of moderate of	
		Open water		part and is of high quality	
		Other	3	Present and comprises significan	
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality	/
		Select only one. High (5)	Narrative D	escription of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predomi	inance of nonnative or
		Moderate (3)		disturbance tolerant native spec	cies
		Moderately low (2)	mod	Native spp are dominant compon	
		Low (1) None (0)		although nonnative and/or distuction also be present, and species	• •
		6c. Coverage of invasive plants. Refer		moderately high, but generally	
		to Table 1 ORAM long form for list. Add		threatened or endangered spp	
		or deduct points for coverage	high	A predominance of native species	s, with nonnative spp
		Extensive >75% cover (-5)		and/or disturbance tolerant nati	
		✓ Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)		absent, and high spp diversity a the presence of rare, threatene	
		Nearly absent <5% cover (0)		The presence of fare, timeaterie	u, or endangered spp
		Absent (1)	Mudflat and	d Open Water Class Quality	
		6d. Microtopography	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	
		0 Vegetated hummucks/tussucks 0 Coarse woody debris >15cm (6in)	3	Moderate 1 to <4ha (2.47 to 9.88 High 4ha (9.88 acres) or more	3 acres)
		0 Coarse woody debris >15cm (6in) 0 Standing dead >25cm (10in) dbh		Trigit 4tia (9.00 acres) of more	
		o Amphibian breeding pools	Microtopog	raphy Cover Scale	
			0	Absent	
			1	Present very small amounts or if	more common
			2	of marginal quality	ut not of highest
			۷	Present in moderate amounts, bu quality or in small amounts of h	
			3	Present in moderate or greater a	
				and of highest quality	

Site: Nottingham	Solar Site	Rater(s): P. Renner		Date: 1/13/2021
0 0	Metric 1. Wetland A	area (size).		: W-PJR-20210113-2 D: Wetland NS-5
max 6 pts. subtotal	Select one size class and assign sco) 20.2ha) (5 pts) ha) (4 pts) n) (3 pts) .2ha) (2pts) :0.12ha) (1 pt)		
6 6	Metric 2. Upland bu	iffers and surroundi	ng land use.	
max 14 pts. subtotal	WIDE. Buffers average 50 MEDIUM. Buffers average VERY NARROW. Buffers VERY NARROW. Buffers Intensity of surrounding land use VERY LOW. 2nd growth of LOW. Old field (>10 years MODERATELY HIGH. Re	Select only one and assign score. Doing (164ft) or more around wetland per 25m to <50m (82 to <164ft) around we 10m to <25m (32ft to <82ft) around average <10m (<32ft) around wetland Select one or double check and average forest, prairie, savannah, wildle, shrub land, young second growth for sidential, fenced pasture, park, consepen pasture, row cropping, mining, co	rimeter (7) wetland perimeter (4) d wetland perimeter (1) d perimeter (0) verage. ife area, etc. (7) perst. (5) ervation tillage, new fallo	ow field. (3)
9 15	Metric 3. Hydrology	/.		
max 30 pts. subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surfa Perennial surface water (la 3c. Maximum water depth. Select o >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in V <0.4m (<15.7in) (1) 3e. Modifications to natural hydrolog	nce water (3) ke or stream) (5) 3d. I nly one and assign score.	Part of wetland/ul Part of riparian or Duration inundation/sate Semi- to permane Regularly inundat Seasonally inundat Seasonally satura	in (1) lake and other human use (1) pland (e.g. forest), complex (1) upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
	None or none apparent (12 Recovered (7) Recovering (3) Recent or no recovery (1)	ditch tile dike weir stormwater input	point source (non filling/grading road bed/RR trac dredging other	·
4 19	Metric 4. Habitat Al	teration and Develo	pment.	
max 20 pts. subtotal	4a. Substrate disturbance. Score or None or none apparent (4) Recovered (3) Recovering (2) ✓ Recent or no recovery (1) 4b. Habitat development. Select onl Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) ✓ Poor to fair (2) Poor (1)	y one and assign score.		
19 subtotal this pa	4c. Habitat alteration. Score one or None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)		shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	tic bed removal
last revised 1 Februa	ry 2001 jjm			

Site: No	ttingham	Solar Site Rater	(s): P. Renn	er	Date: 1/13/2021
Oito: 110	tungnam	Tutor	(3):	<u> </u>	Dato: 1/10/2021
	19				
su	btotal first pa	ge			
0	10	Metric 5. Special Wetlan	ıds.		
0	19				
max 10 pts.	subtotal	Check all that apply and score as indicated.			
		Bog (10) Fen (10)			
		Old growth forest (10)			
		Mature forested wetland (5)			
		Lake Erie coastal/tributary wetland-u	•	. ,	
		Lake Erie coastal/tributary wetland-r		logy (5)	
		Lake Plain Sand Prairies (Oak Oper Relict Wet Prairies (10)	nings) (10)		
		Known occurrence state/federal thre	eatened or enda	angered species (10)	
		Significant migratory songbird/water			
		Category 1 Wetland. See Question	1 Qualitative R	lating (-10)	
		Metric 6. Plant commun	ities. int	erspersion, microto	opography.
-2	17			,	- Jo - 9 J.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation	Community Cover Scale	
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.24	, <u> </u>
		Aquatic bed	1	Present and either comprises sm	
		1 Emergent Shrub		vegetation and is of moderate of significant part but is of low qua	
		Forest	2	Present and either comprises sig	•
		Mudflats	_	vegetation and is of moderate of	
		Open water		part and is of high quality	
		Other	3	Present and comprises significan	
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality	/
		Select only one. High (5)	Narrative D	escription of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predomi	inance of nonnative or
		Moderate (3)		disturbance tolerant native spec	cies
		Moderately low (2)	mod	Native spp are dominant compon	
		Low (1) None (0)		although nonnative and/or distuction also be present, and species	• •
		6c. Coverage of invasive plants. Refer		moderately high, but generally	
		to Table 1 ORAM long form for list. Add		threatened or endangered spp	
		or deduct points for coverage	high	A predominance of native species	s, with nonnative spp
		Extensive >75% cover (-5)		and/or disturbance tolerant nati	
		✓ Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)		absent, and high spp diversity a the presence of rare, threatene	
		Nearly absent <5% cover (0)		The presence of fare, timeaterie	u, or endangered spp
		Absent (1)	Mudflat and	d Open Water Class Quality	
		6d. Microtopography	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	
		0 Vegetated hummucks/tussucks 0 Coarse woody debris >15cm (6in)	3	Moderate 1 to <4ha (2.47 to 9.88 High 4ha (9.88 acres) or more	3 acres)
		0 Coarse woody debris >15cm (6in) 0 Standing dead >25cm (10in) dbh		Tright 4ha (9.00 acres) of more	
		o Amphibian breeding pools	Microtopog	raphy Cover Scale	
			0	Absent	
			1	Present very small amounts or if	more common
			2	of marginal quality	ut not of highest
			۷	Present in moderate amounts, bu quality or in small amounts of h	
			3	Present in moderate or greater a	
				and of highest quality	

Site: Nottingham	Solar Site	Rater(s): P. Renner		Date: 1/12/2021
4 4	Metric 1. Wetland A	rea (size).		: W-PJR-20210112-3 ID: Wetland NS-6
max 6 pts. subtotal	Select one size class and assign sco) 20.2ha) (5 pts) ha) (4 pts) ı) (3 pts) .2ha) (2pts) :0.12ha) (1 pt)		
6 10	Metric 2. Upland bu	iffers and surroundi	ing land use.	
max 14 pts. subtotal	MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers Intensity of surrounding land use VERY LOW. 2nd growth o UOW. Old field (>10 years MODERATELY HIGH. Re	m (164ft) or more around wetland per 25m to <50m (82 to <164ft) around e 10m to <25m (32ft to <82ft) around average <10m (<32ft) around wetlan	erimeter (7) wetland perimeter (4) d wetland perimeter (1) d perimeter (0) verage. life area, etc. (7) forest. (5) ervation tillage, new fallo	ow field. (3)
14 24	Metric 3. Hydrology	/.		
max 30 pts. subtotal	3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surfa Perennial surface water (la 3c. Maximum water depth. Select or >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) V <0.4m (<15.7in) (1) 3e. Modifications to natural hydrolog	ice water (3) ke or stream) (5) 3d. nly one and assign score. 1 (2) ic regime. Score one or double chec	Part of wetland/u Part of riparian or Duration inundation/sat Semi- to permand Regularly inunda Seasonally inund Seasonally satura	nin (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3)
	None or none apparent (12 Recovered (7) Recovering (3) Recent or no recovery (1)	ditch tile dike weir stormwater input	point source (nor filling/grading road bed/RR trac dredging other	
4 28	Metric 4. Habitat Al	teration and Develo	pment.	
max 20 pts. subtotal	4a. Substrate disturbance. Score on None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select onl Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)	Ť		
	4c. Habitat alteration. Score one or None or none apparent (9)			
28 subtotal this pa	Recovered (6) Recovering (3) Recent or no recovery (1)	✓ mowing grazing ✓ clearcutting selective cutting ✓ woody debris removal toxic pollutants	shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme	ttic bed removal

Site: No	ttingham	Solar Site	Rate	er(s): P. Renne	er	Date: 1/12/2021
0 max 10 pts.	28 btotal first pa 28 subtotal	Metr	that apply and score as indicated. Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetlan. Lake Plain Sand Prairies (Oak Op Relict Wet Prairies (10) Known occurrence state/federal the Significant migratory songbird/war	d-unrestricted hyd d-restricted hydrol penings) (10) nreatened or enda ter fowl habitat or	ogy (5) ingered species (10) usage (10)	
		 Metri	Category 1 Wetland. See Questice 6. Plant commu		ating (-10) erspersion, microto	ppography.
0	28			•	,	
max 20 pts.	subtotal		and Vegetation Communities		Community Cover Scale	
		Score all	present using 0 to 3 scale. Aquatic bed Emergent	<u> </u>	Absent or comprises <0.1ha (0.24) Present and either comprises sm vegetation and is of moderate of	all part of wetland's _l uality, or comprises a
			Shrub	2	significant part but is of low qua	
		1	Forest Mudflats Open water		Present and either comprises sign vegetation and is of moderate of part and is of high quality	
			Other	3	Present and comprises significan	t part, or more, of wetland's
			ontal (plan view) Interspersion.		vegetation and is of high quality	1
		Select on	•	Namatica D		
		-	High (5)		escription of Vegetation Quality	names of name time as
		-	Moderately high(4) Moderate (3)	low	Low spp diversity and/or predomi disturbance tolerant native spec	
			Moderately low (2)	mod	Native spp are dominant compon	
		1	Low (1)	11100	although nonnative and/or distu	-
		<u> </u>	None (0)		can also be present, and specie	
		6c. Cove	rage of invasive plants. Refer		moderately high, but generally	•
		to Table	1 ORAM long form for list. Add		threatened or endangered spp	
		or deduct	points for coverage	high	A predominance of native species	s, with nonnative spp
			Extensive >75% cover (-5)		and/or disturbance tolerant nati	
		✓	Moderate 25-75% cover (-3)		absent, and high spp diversity a	
			Sparse 5-25% cover (-1)		the presence of rare, threatener	d, or endangered spp
		_	Nearly absent <5% cover (0)	Mudfletend	Onen Water Class Quality	
		6d Micro	Absent (1) otopography.	0	Open Water Class Quality Absent <0.1ha (0.247 acres)	
			present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	eres)
		0	Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88	
		0	Coarse woody debris >15cm (6in)		High 4ha (9.88 acres) or more	<u>, a.o. oo j</u>
		0	Standing dead >25cm (10in) dbh	·	,	
		0	Amphibian breeding pools	<u>Micro</u> topog	raphy Cover Scale	
		<u>-</u>	-	0	Absent	
				1	Present very small amounts or if of marginal quality	
				2	Present in moderate amounts, bu quality or in small amounts of h	ighest quality
				3	Present in moderate or greater ar	nounts

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